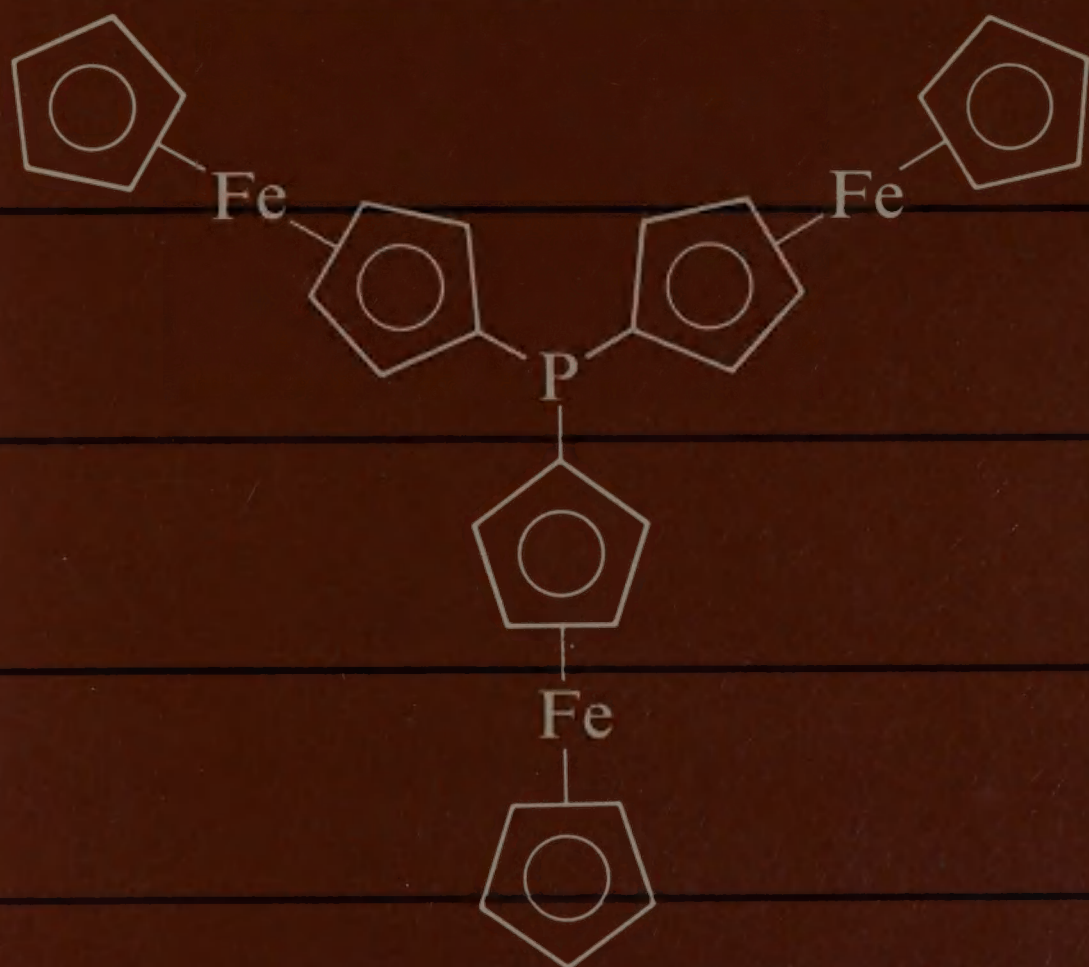


Organometallic Compounds of Iron

Edited by G. R. Knox



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Organometallic Compounds of Iron

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G. R. Knox

University of Strathclyde

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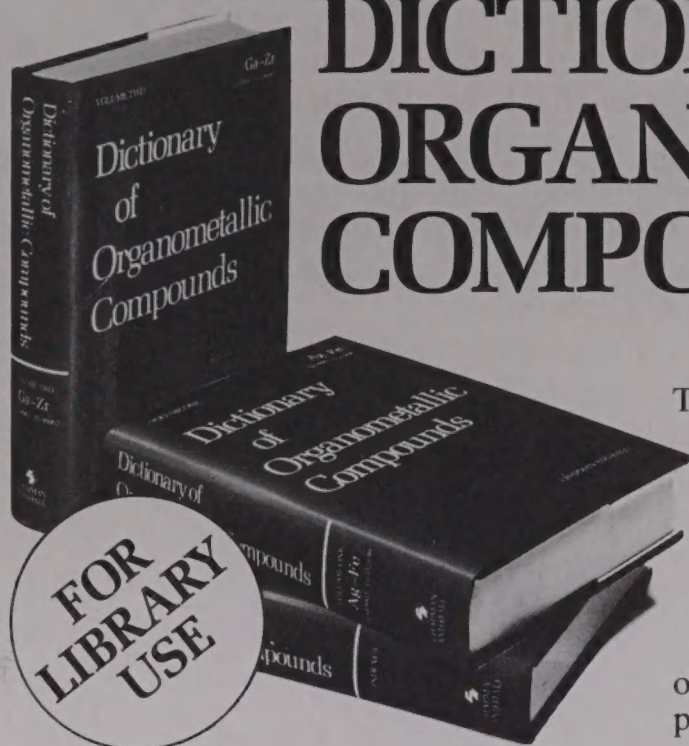
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Preface

This is one of the first volumes to be published in the series of *Chapman and Hall Chemistry Sourcebooks* which provides carefully tailored information to workers in specialized areas of chemistry. The information contained in this book is derived from the *Dictionary of Organometallic Compounds*, published in November 1984.

Organoiron compounds are amongst the most widely studied group of organometallics. Since the discovery of ferrocene in 1951 there has been a huge growth in the number of organoiron derivatives. Interest is now turning to the use of these compounds in organic synthesis, since the binding of an iron atom to an organic ligand changes the way in which reagents act on the ligand and thus gives rise to a new range of possible synthetic pathways. The large variety of organoiron compounds and their reactions will ensure that this particular compendium will reach a wide audience.

The databank on the properties of organometallic compounds, which is represented in its current form by the *Dictionary of Organometallic Compounds* and its subset publications such as this volume, will be kept continuously up-to-date. Supplements to the main *Dictionary* will appear annually and revised editions of this *Sourcebook* will be published from time to time as demands permits.

G.R. Knox

Introduction

1. Using the Sourcebook

The entries in this *Sourcebook* are arranged in order of molecular formula according to the Hill convention (i.e. C, then H, then other elements in alphabetical sequence of element symbol; where no carbon is present, the elements including H are ordered strictly alphabetically).

Every entry is numbered to assist ready location and the entry number consists of the symbol Fe followed by a five-digit number.

Indexes

There are three printed indexes: a name index which lists every compound name or synonym in alphabetical order; a molecular formula index which lists all molecular formulae, including those of derivatives, in Hill convention order; and a CAS registry number index listing all CAS numbers included in the *Sourcebook* in serial order. All indexes refer to the entry number. In the name index an entry number which follows immediately upon an index term means that the term itself is used as the entry name but an entry number which is preceded by the word 'see' means that the term is a synonym to an entry name. In all three indexes an entry number which is preceded by the word 'in' refers the reader to a specified stereoisomer or derivative which is to be found embedded within the particular entry.

In addition to the three printed indexes, a graphical structure index precedes the section containing the entries, allowing the rapid visual location of compounds of interest. The structure index reproduces all structure diagrams in reduced size and printed in entry number order.

The following paragraphs summarize important considerations in compiling the information in this *Sourcebook*. For more detailed information, see the Introduction to the *Dictionary of Organometallic Compounds* from which this *Sourcebook* derives.

2. Compound Selection

In compiling this *Sourcebook* the aim has been to include from the primary literature up to mid 1983:

(1) Compounds representative of all important structural types (typically, the parent member of each series, where known, together with a selection of its homologues).

(2) Any compound with an established use, such as in catalysis, as a synthetic reagent or starting material.

(3) Other compounds of particular chemical, structural, biological or historical interest, especially those thought to exhibit unusual bonding characteristics.

Some compounds which are not considered sufficiently important to justify separate entries of their own have been included as derivatives in the entries of other compounds. These may include for example:

(1) Organic derivatives in the classical sense, e.g. the various esters of ferrocenecarboxylic acids.

(2) Donor-acceptor complexes.

(3) The various salts of an anion or cation. In nearly every case, the entry for an ionic substance refers to the naked anion or cation, and the molecular formula, molecular weight and CAS registry number given for the main entry are those of the ion, in agreement with current CAS practice. Salts of the ion with various counterions are then treated as derivatives and the molecular formulae of all of these are given.

(4) Oligomeric compounds. Where a compound is known in several states of molecular aggregation these are all included in the one entry, which usually refers to the monomer. Compounds which are known only in dimeric form are entered as such, but the hypothetical monomers are included as derivatives to ensure that the names and molecular formulae of the monomeric forms occur in the indexes.

All names and molecular formulae recorded for derivatives occur in the Name and Molecular Formula Indexes respectively.

3. Chemical Names and Synonyms

The naming of organometallic compounds is frequently problematic and so in selecting the range of alternative names to present for each compound or derivative, editorial policy has been to report names which are found in the literature, including *Chemical Abstracts*, and not to attempt to impose a system of nomenclature. The editorial generation of new names has therefore been kept to a minimum required by consistency. Most names given in the *Sourcebook* are those given in the original paper(s) and in *Chemical Abstracts*.

Names corresponding to those used by CAS during the 8th, 9th, and 10th collective index periods (1967-71, 1972-6 and 1977-81 respectively) are labelled with the suffixes 8CI, 9CI and 10CI respectively.

4. Toxicity and Hazard Information

Toxicity and hazard information is highlighted by the sign $\triangleright$ which also appears in the indexes.

All organometallic compounds should be treated as if they have dangerous properties.

The information contained in the *Sourcebook* has been compiled from sources believed to be reliable. No warranty, guarantee or representation is made by the Publisher as to the correctness or sufficiency of any information herein, and the Publisher assumes no responsibility in connection therewith.

The specific information in this publication on the hazardous and toxic properties of certain compounds is intended to alert the reader to possible dangers associated with the use of those compounds. The absence of such information should not, however, be taken as an indication of safety in use or misuse.

5. Bibliographic References

The selection of references is made with the aim of facilitating entry into the literature for the user who wishes to locate more detailed information about a particular compound. Reference contents are frequently indicated using mnemonic suffixes. In general recent references are preferred to older ones, and the number of references quoted does not necessarily indicate the relative importance of a compound.

Journal abbreviations generally follow the practice of *Chemical Abstracts Service Source Index* (CASSI). In patent references, no distinction is made between patent applications and granted patents.

6. Sources of Further Information

The following books and review series provide more information about various aspects of organometallic chemistry. Lists of reviews specific to organic compounds of iron may be found in the next section.

General

Comprehensive Organometallic Chemistry, Wilkinson, G. *et al.* Eds, Pergamon, Oxford, 1982. This book represents the most complete and up to date

review of the whole subject. In addition to sections for each element there are chapters on the use of organometallics in organic synthesis and catalysis.

Comprehensive Inorganic Chemistry, Trotman-Dickenson, A.F. *et al.* Eds, Pergamon, Oxford, 1973. Contains information about organometallics as well as discussions of oxidation states, coordination chemistry and analysis of the metals.

Gmelins Handbuch der Anorganischen Chemie, 8th Edn, Springer-Verlag, Berlin. Some volumes of Gmelin covering organometallic compounds have been updated relatively recently and can therefore be consulted for comprehensive data on some types of organometallics. Some Gmelin element sections, however, are many years out of date.

Houben-Weyls Methoden der Organischen Chemie, 4th Edn, Band XIII, *Metallorganische Verbindungen*, Thieme-Verlag, Stuttgart.

The Chemistry of the Carbon-Metal Bond, Hartley, F.R. and Patai, S. Eds, Wiley, New York, 1982-. Contains sections on the synthesis, analysis and thermochemistry of various classes of organometallic compounds.

Transition-Metal Complexes of Phosphorus, Arsenic and Antimony Ligands, McAuliffe, C.A. Ed., Macmillan, London, 1973.

Methods of Elemento-Organic Chemistry, Kocheshkov, K.A. Ed., North Holland, Amsterdam, 1967.

MTP International Review of Science: Inorganic Chemistry, Series 2, Emeléus, H.J. Ed., Butterworths, London; University Park Press, Baltimore, 1974-5.

Advances in Organometallic Chemistry, Academic Press, 1964-.

Annual Surveys of Organometallic Chemistry, Elsevier, 1964-7.

Organometallic Chemistry Reviews, Elsevier, 1966-7.

Organometallic Chemistry Reviews, Section A: Subject Reviews 1968-72.

Organometallic Chemistry Reviews, Section B: Annual Surveys 1968-74.

Journal of Organometallic Chemistry: This incorporates reviews and surveys after the discontinuation of the two series of *Organometallic Chemistry Reviews*.

Organometallic Chemistry, 1972-, (Specialist Periodical Reports), RSC.

Coordination Chemistry Reviews, Elsevier, 1966-.

Progress in Inorganic Chemistry, Interscience, 1959-.

Advances in Inorganic Chemistry and Radiochemistry, Academic Press, 1959-.

Analysis

Scott's Standard Methods of Chemical Analysis, Furman, N.H. Ed., 6th Edn, Van Nostrand, New York, 1962.

Crompton, T.R., *Chemical Analysis of Organometallic Compounds*, Academic Press, London, 1973.

Spectroscopy

Nuclear Magnetic Resonance Spectroscopy of Nuclei Other than the Proton, Axenrod, T. and Webb, G.A. Eds, Wiley, London, 1974.

NMR and the Periodic Table, Harris, R.K. and

Mann, B.E. Eds, Academic Press, London, 1978.

¹³C NMR Data for Organometallic Compounds, Mann, B.E. and Taylor, B.F. Eds, Academic Press, London, 1981.

Spectroscopic Properties of Inorganic and Organometallic Compounds, 1968-, (Specialist Periodical Reports), RSC.

Handling

Shriver, D.F., *The Manipulation of Air-Sensitive Compounds*, McGraw-Hill, 1969.

Organometallic Syntheses, Academic Press, New York, 1965, Vol. 1.

Fer (Fr.), Eisen (Ger.), Hierro (Sp.), Ferro (Ital.), Железо (Zhelezo) (Russ.), 鉄 (Japan.)

Atomic Number. 26

Atomic Weight. 55.847

Electronic Configuration. [Ar] $3d^6 4s^2$

Oxidation States. Usually -2, -1, 0, +1 or +2 in organometallics.

Coordination Number. Commonly 4, 5, or 6 in organometallics.

Colour. Most ferrocene derivatives are yellow-orange, orange-red or purple (a few); salts of the ferrocenium ion are normally blue or green and exhibit a blue-red dichroism in solution.

Simple diamagnetic iron carbonyl complexes are usually yellow-orange to red-brown; a few are very pale yellow or almost white; paramagnetic species can be blue or green; diamagnetic iron nitrosyl complexes are often red to brown-black; polynuclear (Fe_4 , Fe_5) species usually exhibit intense red-black colours.

Availability. Iron is the most abundant transition metal and the fourth most abundant element in the earth's crust. Pure iron is a white lustrous metal, m.p. 1536° , which is extremely reactive. Common starting materials (available in unlimited quantities) for organometallics include anhydrous $FeCl_2$ or $FeCl_3$, ferrocene and $Fe(CO)_5$, the latter two compounds being the cheapest organometallic complexes available. An increasingly wide range of ferrocene derivatives and iron carbonyl complexes is available from commercial sources.

Handling. Ferrocene derivatives may be handled in a similar manner to normal organic compounds although it is generally advisable to avoid the possibility of oxidative decomposition in solution. One-electron oxidation to water-soluble ferrocenium species is often encountered under reaction conditions but reduction to ferrocenes is accomplished easily with conventional reducing agents such as titanous chloride, dithionite, ascorbic acid or zinc dust.

Most ferrocene derivatives are soluble in the usual range of organic solvents and are very soluble in halogenated and ethereal solvents. Many ferrocene derivatives are steam volatile and many are well suited to purification by sublimation. Column chromatography (usually Al_2O_3 , less frequently SiO_2) and thin-layer chromatography however are the purification techniques, *par excellence*, suited to the coloured ferrocene derivatives. Hplc and glc techniques may be employed for analytical purposes.

In general, other organometallic complexes of iron exhibit rather lower thermal, aerial oxidative, photochemical and, solution stabilities than ferrocene derivatives and are sensitive to mineral acids, but, with minimal precautions, most may be handled by conventional techniques. It is usually prudent to use inert atmosphere (N_2 or Ar) techniques for solution ma-

nipulations in alkali-washed glassware and to use "neutralised" alumina for preparative scale chromatography on columns protected from direct sunlight. The variable thermal stability of many organoiron complexes renders glc a generally less reliable method of analysis than hplc but sublimation is often a valuable method of purifying solution-sensitive solids. Most organoiron compounds dissolve readily in ethers and in halogenated solvents but paramagnetic complexes and diamagnetic complexes with $Fe-C$ σ -bonds or $Fe-H$ bonds may be decomposed by eg. $CHCl_3$.

The progress of reactions involving coloured organoiron derivatives is usually followed easily by tlc techniques complemented by 1H nmr spectroscopy for ferrocene derivatives and by ir spectroscopy for iron carbonyl or nitrosyl complexes.

Toxicity. Iron carbonyl complexes should be treated as toxic substances.

Isotopic Abundance. The naturally occurring isotopes of iron are ^{54}Fe , 5.82%; ^{56}Fe , 91.66%; ^{57}Fe , 2.19%; ^{58}Fe , 0.33%.

Spectroscopy. The isotope ^{57}Fe (2.19% natural abundance, $I = \frac{1}{2}$) permits organoiron complexes to be investigated by nmr techniques in principle but relatively few reports have appeared to date since ^{57}Fe is a very insensitive nucleus.

For ^{13}C nmr spectral data on many ferrocene and other organoiron compounds see Mann, B. E. and Taylor, B. F., *^{13}C nmr Data for Organometallic Compounds*, Academic Press, 1981.

Iron complexes are amenable to Mössbauer spectroscopy see eg. Flucke, E., *Adv. Inorg. Chem. Radiochem.*, 1964, **6**, 433.

Wertheim, G. K., *Mössbauer Effect: Principles and Applications*, Academic Press, 1964.

Analysis. A simple qualitative test for iron in organometallics is the following: dissolve (digest) substance with conc. HNO_3 , evaporate, dilute with water and add SCN^- ; a blood-red coloured solution indicates Fe^{3+} .

Numerous colorimetric, electrometric, gravimetric and titrimetric procedures for estimating iron are available, see *Scott's Standard Methods of Chemical Analysis*, Furman, N. H. Ed., 6th Edn, Van Nostrand, 1962, Vol. 1.

References. Literally hundreds of reviews cover various aspects of the organometallic chemistry of iron. In addition to reviews listed in the introduction to the *Sourcebook*, leading references will be found in:

Chemistry of the Iron Group Metallocenes, Rosenblum, M. Ed., Wiley, 1965.

The Organic Chemistry of Iron, Vols. 1 and 2, Koerner von Gustorf, E. A. et al. Eds, Academic Press, 1981.

Very detailed information concerning certain organoiron

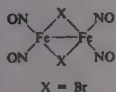
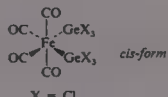
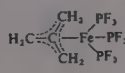
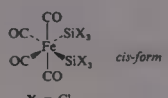
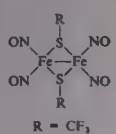
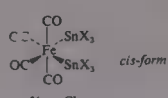
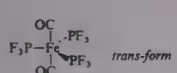
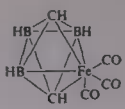
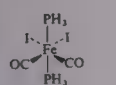
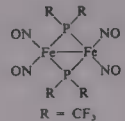
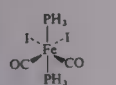
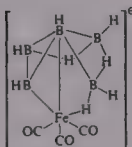
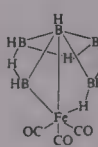
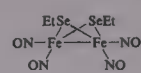
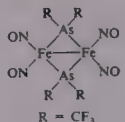
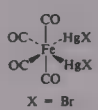
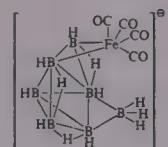
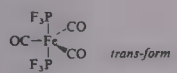
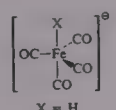
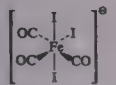
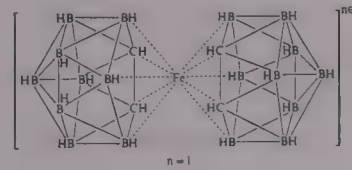
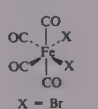
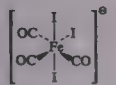
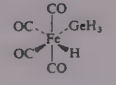
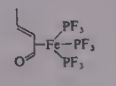
derivatives will be found in the relevant sections of *Gmelins Handbuch der Anorganischen Chemie*, Springer-Verlag.

Series A1–A7 *Eisen-Organische Verbindungen*. Concerned with ferrocene and derivatives.

Series B1–B7 *Eisen-Organische Verbindungen*. Concerned with iron carbonyls, isonitrile complexes, carbene complexes and various σ and π complexes where the

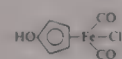
organic ligand is bonded to the iron via one, two, three or four carbon atoms.

Series C1–C6 *Eisen-Organische Verbindungen*. Concerned with binuclear [C1–C5] and trinuclear [C6] complexes, principally with carbonyl ligands with or without hydrocarbon and other ligands.

BrFe(NO) ₃	Fe-00001	(OC) ₂ Fe(CN)(NO) ^{⊖⊖}	Fe-00018	As Fe-00029 with X = Cl	Fe-00031		Fe-00047
	Fe-00002	Fe(CN) ₂ (CO)(NO) ^{⊖⊖⊖}	Fe-00019	Cl ₃ PFe(CO) ₄	Fe-00032		Fe-00048
(F ₃ P) ₄ FeCO	Fe-00003	HFe(CO) ₃ NO	Fe-00020		Fe-00033		Fe-00049
Cl ₂ Fe(CO) ₂	Fe-00004		Fe-00021		Fe-00034	As Fe-00033 with X = H	Fe-00050
	Fe-00005		Fe-00022		Fe-00035	(MeNC) ₂ Fe(NO) ₂	Fe-00051
	Fe-00006		Fe-00023	Fe(CO) ₄ PF ₃	Fe-00036	As Fe-00034 with X = H	Fe-00052
Fe(CO) ₂ (NO) ₂	Fe-00007		Fe-00024		Fe-00037	(MeO) ₃ PFe(NO) ₂ CO	Fe-00053
	Fe-00008		Fe-00025	[Hg[Fe(CO) ₄]] _n	Fe-00038	As Fe-00005 with R = Et	Fe-00054
As Fe-00005 with R = Me	Fe-00009		Fe-00026	Fe(CO) ₄ I ₂	Fe-00039		Fe-00055
BrHgFe(CO) ₃ NO	Fe-00010		Fe-00027	Fe(CO) ₄ ^{⊖⊖} (T _d)	Fe-00040	As Fe-00027 with R = Me	Fe-00057
ClHgFe(CO) ₃ NO	Fe-00011		Fe-00028	Zn[Fe(CO) ₄]	Fe-00041		Fe-00058
Cl ₃ GeFe(CO) ₃ NO	Fe-00012		Fe-00014		Fe-00042	As Fe-00037 with R = Me	Fe-00059
Cl ₃ SnFe(CO) ₃ NO	Fe-00013		Fe-00015	H ₂ Fe(CO) ₄	Fe-00043		Fe-00060
IHgFe(CO) ₃ NO	Fe-00015		Fe-00016	Fe(CO) ₄ PH ₃	Fe-00044	As Fe-00060 with n = 2	Fe-00061
	Fe-00017	As Fe-00028 with X = Cl	Fe-00017		Fe-00045		
(OC) ₃ FeNO [⊖]	Fe-00017		Fe-00030		Fe-00046		

	$(OC)_4Fe=C(NH_2)_2$		
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$F_3CFel(CO)_4$		Fe-00090	
Fe-00063			Fe-00104
	As Fe-00074 with $X = H$		
Fe-00064		Fe-00091	Fe-00105
As Fe-00042 with $X = -CN$			As Fe-00105 with $R = Cl$
Fe-00065		Fe-00092	Fe-00106
$Fe(CN)_5NO^{3-}$		$F_3CCF_2FeI(CO)_4$	$MeNCFel(CO)_4$
Fe-00066		Fe-00093	Fe-00107
$Fe(CO)_4CS$			As Fe-00042 with $X = -COCH_3$
Fe-00067		Fe-00094	Fe-00108
$Fe(CO)_4(CS_2)$		$Fe(CO)_6^{3+}$	As Fe-00042 with $X = -COOMe$
Fe-00068		Fe-00095	Fe-00109
$Fe(CO)_5$		$(OC)_3FeNO-Hg-FeNO(CO)_3$	
Fe-00069		Fe-00096	Fe-00110
		As Fe-00091 with $X = I$	
Fe-00070		Fe-00097	Fe-00111
Fe-00071		Fe-00098	Fe-00112
Fe-00072		Fe-00099	Fe-00113
$Fe(CO)_4Me^+$			As Fe-00105 with $R = H$
Fe-00073		Fe-00100	Fe-00114
			As Fe-00105 with $R = OH$
Fe-00074		Fe-00101	Fe-00115
		As Fe-00070 with $R = -CH_2CN$	
Fe-00075		Fe-00102	Fe-00116
As Fe-00074 with $X = Cl$			
Fe-00076		Fe-00103	Fe-00117

	Fe-00118	$\text{Me}_3\text{PAuFe}(\text{CO})_3\text{NO}$	Fe-00134		As Fe-00149 with R = SO_3H	Fe-00167
	Fe-00119	$(\text{MeO})_3\text{PAuFe}(\text{CO})_3\text{NO}$	Fe-00135			
As Fe-00111 with R = H, X = I	Fe-00120		Fe-00136	As Fe-00149 with R = I	Fe-00151	Fe-00168
	Fe-00121	$\text{Me}_3\text{PbFe}(\text{CO})_3\text{NO}$	Fe-00137	As Fe-00149 with R = CN	Fe-00152	Fe-00169
As Fe-00075 with X = COOH	Fe-00122		Fe-00138			Fe-00170
	Fe-00123		Fe-00139		Fe-00153	Fe-00171
	Fe-00124		Fe-00140		Fe-00154	Fe-00172
As Fe-00070 with R = Et	Fe-00125		Fe-00141		Fe-00155	Fe-00173
As Fe-00070 with R = $-\text{CH}_2\text{OMe}$	Fe-00126	$(\text{Me}_3\text{P})_2\text{FeCl}_2$	Fe-00142	As Fe-00155 with X = I	Fe-00159	Fe-00174
$\text{Me}_2\text{NBFe}(\text{CO})_4$	Fe-00127	$[(\text{MeO})_3\text{P}]_2\text{Fe}(\text{NO})_2$	Fe-00143	As Fe-00149 with R = H	Fe-00160	Fe-00175
	Fe-00128	$\text{F}_3\text{CCF}_2\text{CF}_2\text{Fe}(\text{CO})_4$	Fe-00144	As Fe-00149 with R = SH	Fe-00161	Fe-00176
	Fe-00129		Fe-00145			Fe-00177
	Fe-00130		Fe-00146	As Fe-00105 with R = CHO	Fe-00163	Fe-00178
$(\text{H}_3\text{CNC})_2\text{FeI}_2(\text{CO})_2$	Fe-00131		Fe-00147		Fe-00164	Fe-00179
As Fe-00075 with X = CH_3	Fe-00132		Fe-00148		Fe-00165	Fe-00180
As Fe-00074 with X = CH_3	Fe-00133		Fe-00149		Fe-00166	Fe-00181
						Fe-00182



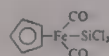
Fe-00183

As Fe-00174 with
X = Cl

Fe-00185

As Fe-00179 with
X = Cl

Fe-00186



Fe-00187

As Fe-00180 with
X = Cl

Fe-00188



Fe-00189

As Fe-00173 with
X = I

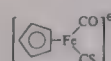
Fe-00190

As Fe-00149 with
R = NH₂

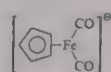
Fe-00191

As Fe-00173 with
X = N₃

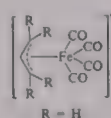
Fe-00192



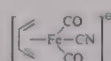
Fe-00193



Fe-00194



Fe-00195



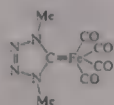
Fe-00196

As Fe-00042 with
X = -CONMe₂

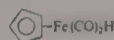
Fe-00197

(MeNC)₂Fe(CO)₃

Fe-00198



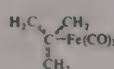
Fe-00199



Fe-00200



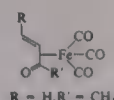
Fe-00201



Fe-00202

As Fe-00174 with
X = OH

Fe-00203



Fe-00205

As Fe-00105 with
R = CH₃

Fe-00206



Fe-00207

As Fe-00110 with
R = CH₃, X = Br

Fe-00208

As Fe-00111 with
R = CH₃, X = Br

Fe-00209

As Fe-00111 with
R = OMe, X = Br

Fe-00210



Fe-00211

As Fe-00111 with
R = CH₃, X = Cl

Fe-00212

As Fe-00111 with
R = OMe, X = Cl

Fe-00213

As Fe-00110 with
R = CH₃, X = I

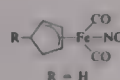
Fe-00214

As Fe-00111 with
R = CH₃, X = I

Fe-00215

As Fe-00111 with
R = OMe, X = I

Fe-00216



Fe-00217

(OC)₄Fe=CHNMe₂

Fe-00218



Fe-00219



Fe-00220

Me₃AsFe(CO)₄

Fe-00221

Me₃NFe(CO)₄

Fe-00222

Me₃PFe(CO)₄

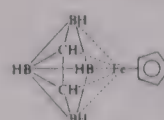
Fe-00223

Me₃SbFe(CO)₄

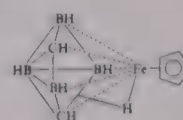
Fe-00224

(MeO)₃PFe(CO)₄

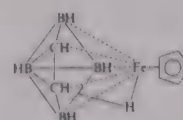
Fe-00225



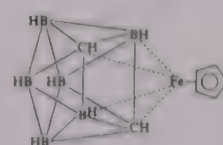
Fe-00226



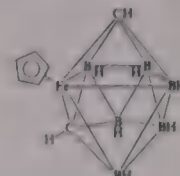
Fe-00227



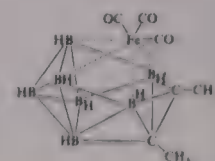
Fe-00228



Fe-00229



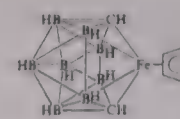
Fe-00230



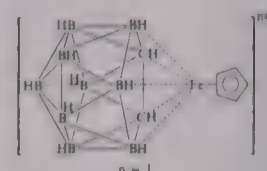
Fe-00231

As Fe-00234 with
n = 0

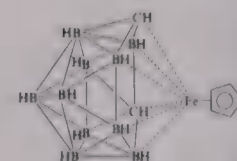
Fe-00232



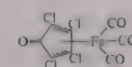
Fe-00233



Fe-00234



Fe-00236



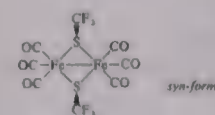
Fe-00237



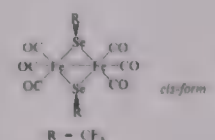
Fe-00238

As Fe-00094 with
R = -COCF₃

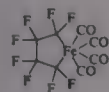
Fe-00239



Fe-00240



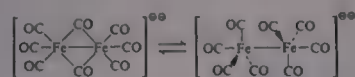
Fe-00241



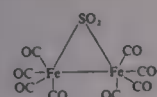
Fe-00242

As Fe-00094 with
R = -CF₂CF₃

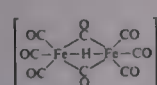
Fe-00243



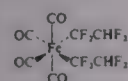
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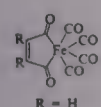
Fe-00245



Fe-00246



Fe-00247



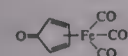
Fe-00248

As Fe-00149 with
R = CN

Fe-00249

As Fe-00149 with
R = CHO

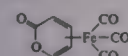
Fe-00250



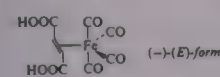
Fe-00251

As Fe-00149 with
R = COOH

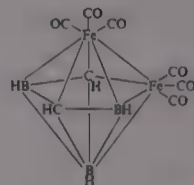
Fe-00252



Fe-00253



Fe-00254



Fe-00255

As Fe-00149 with
R = CH₂Cl

Fe-00256

As Fe-00189 with
L = CF₃

Fe-00257

As Fe-00173 with
X = CN

Fe-00258

As Fe-00173 with
X = -NCS

Fe-00259

As Fe-00173 with
X = -SCN

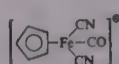
Fe-00260

As Fe-00173 with
X = -SeCN

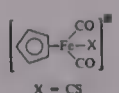
Fe-00261

As Fe-00173 with
X = -NCO

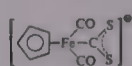
Fe-00262



Fe-00263



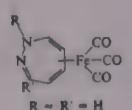
Fe-00264



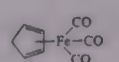
Fe-00265



Fe-00266



Fe-00267



Fe-00268

As Fe-00149 with
R = CH₃

Fe-00269



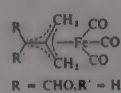
Fe-00270

As Fe-00149 with
R = CH₂OH

Fe-00271

As Fe-00149 with
R = OMe

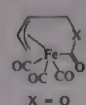
Fe-00272



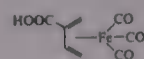
Fe-00273

As Fe-00174 with
X = CHO

Fe-00274



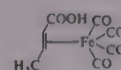
Fe-00275



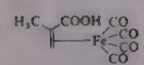
Fe-00276

As Fe-00174 with
X = COOH

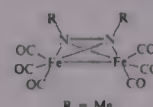
Fe-00277



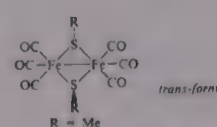
Fe-00278



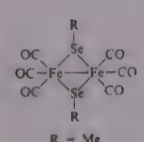
Fe-00279



Fe-00280



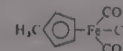
Fe-00281



Fe-00282

As Fe-00173 with
X = -CH₂Cl

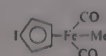
Fe-00283



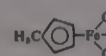
Fe-00284



Fe-00285



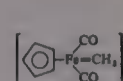
Fe-00286



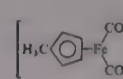
Fe-00287

As Fe-00275 with
X = NH

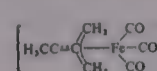
Fe-00288



Fe-00289



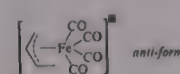
Fe-00290



Fe-00291



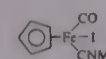
Fe-00292



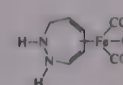
Fe-00293



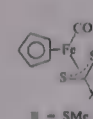
Fe-00294



Fe-00295



Fe-00296



Fe-00297



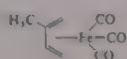
Fe-00298

As Fe-00189 with
L = SMe

Fe-00299

As Fe-00173 with
X = -CH₂OH

Fe-00300



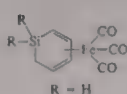
Fe-00301

As Fe-00174 with
X = CH₃

Fe-00302



Fe-00303



Fe-00304

As Fe-00205 with
R = R' = CH₃

Fe-00305

As Fe-00273 with
R = -CH₂OH, R' = H

Fe-00306

As Fe-00174 with
X = CH₂OH

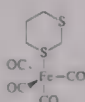
Fe-00307

As Fe-00189 with
L = -OS(O)Me

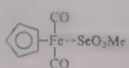
Fe-00308

As Fe-00189 with
L = SO₂Me

Fe-00309



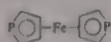
Fe-00310



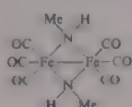
Fe-00311

As Fe-00105 with
R = OEt

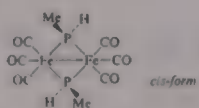
Fe-00312



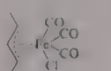
Fe-00313



Fe-00314



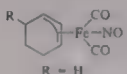
Fe-00315



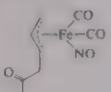
Fe-00316

As Fe-00128 with
X = MeNC

Fe-00317



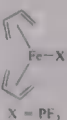
Fe-00318



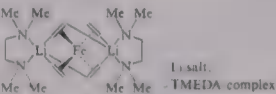
Fe-00319



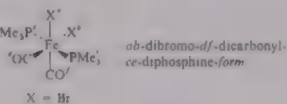
Fe-00320



Fe-00321



Fe-00322



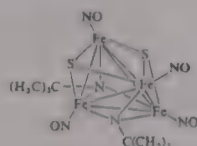
Fe-00323

As Fe-00323 with
X = Cl

Fe-00324

As Fe-00323 with
X = I

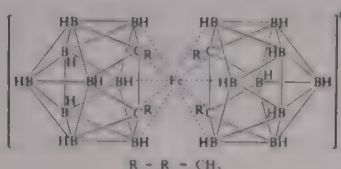
Fe-00325



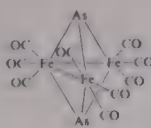
Fe-00326



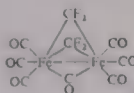
Fe-00327



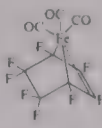
Fe-00328



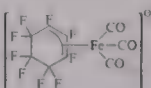
Fe-00329



Fe-00330



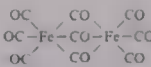
Fe-00331



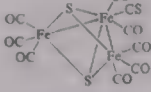
Fe-00332



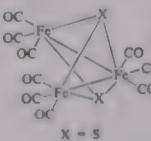
Fe-00333



Fe-00334



Fe-00335



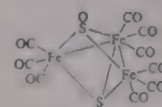
Fe-00336

As Fe-00336 with
X = Se

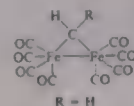
Fe-00337

As Fe-00336 with
X = Te

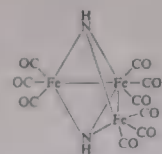
Fe-00338



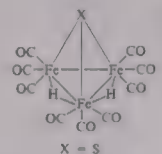
Fe-00339



Fe-00340



Fe-00341



Fe-00342



Fe-00343

As Fe-00147 with
R = CHO

Fe-00344

As Fe-00147 with
R = COOH

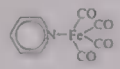
Fe-00345

As Fe-00189 with
L = COCF₃

Fe-00346

As Fe-00173 with
X = -P(CF₃)₂

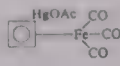
Fe-00347



Fe-00348

As Fe-00147 with
R = -CH₂Cl

Fe-00349



Fe-00350

As Fe-00267 with
R = COOH, R' = H

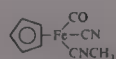
Fe-00351

As Fe-00189 with
L = $-\text{C}\equiv\text{CH}$

Fe-00352

As Fe-00365 with
R = F

Fe-00366



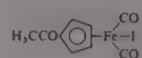
Fe-00381

As Fe-00149 with
R = $-\text{CH}_2\text{CH}_2\text{OH}$

Fe-00398

As Fe-00149 with
R = $-\text{CH}=\text{CH}_2$

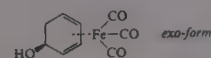
Fe-00353



Fe-00367

As Fe-00267 with
R = H, R' = CH_3

Fe-00382



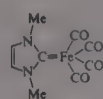
Fe-00399

As Fe-00149 with
R = COCH_3

Fe-00354

As Fe-00285 with
X = CN

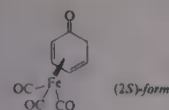
Fe-00368



Fe-00384

As Fe-00149 with
R = OEt

Fe-00400



Fe-00355

As Fe-00173 with
X = $-\text{CH}_2\text{CN}$

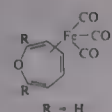
Fe-00369

As Fe-00189 with
L = $-\text{CH}=\text{CH}_2$

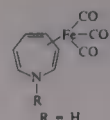
Fe-00385

As Fe-00358 with
R = CH_3 , R' = CHO

Fe-00401



Fe-00356



Fe-00370

As Fe-00173 with
X = $-\text{C}(\text{S})\text{SMe}$

Fe-00386

As Fe-00174 with
X = COCH_3

Fe-00402

As Fe-00358 with
R = CH_3 , R' = CN

Fe-00371

As Fe-00189 with
L = $-\text{SC}(\text{S})\text{SMe}$

Fe-00387

As Fe-00149 with
R = $-\text{CH}(\text{OH})\text{CH}_3$

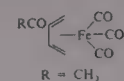
Fe-00403

As Fe-00149 with
R = CH_2COOH

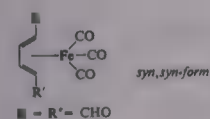
Fe-00357

As Fe-00173 with
X = Ac

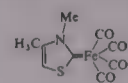
Fe-00388



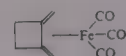
Fe-00404



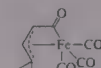
Fe-00358



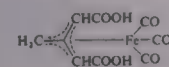
Fe-00372



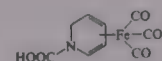
Fe-00389



Fe-00405



Fe-00359



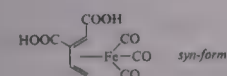
Fe-00373



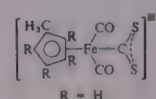
Fe-00390



Fe-00406



Fe-00360



Fe-00374

As Fe-00147 with
R = CH_3

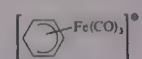
Fe-00391

As Fe-00147 with
R = $-\text{CH}_2\text{OH}$

Fe-00407

As Fe-00358 with
R = R' = COOH

Fe-00361



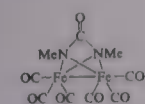
Fe-00375

As Fe-00149 with
R = CH_2CH_3

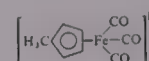
Fe-00392

As Fe-00358 with
R = CH_3 , R' = COOH

Fe-00408



Fe-00362



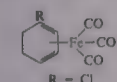
Fe-00376



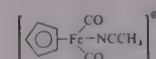
Fe-00393

As Fe-00273 with
R = $-\text{COOMe}$, R' = H

Fe-00409



Fe-00363



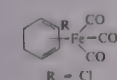
Fe-00377

As Fe-00189 with
L = $-\text{C}(\text{S})\text{OMe}$

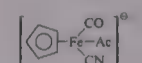
Fe-00394

As Fe-00164 with
R = H , R' = CH_3

Fe-00410



Fe-00364



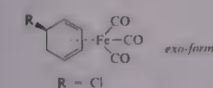
Fe-00378

As Fe-00273 with
R = $-\text{COCH}_3$, R' = H

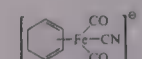
Fe-00395

As Fe-00164 with
R = CH_3 , R' = H

Fe-00411



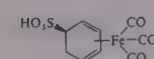
Fe-00365



Fe-00379

As Fe-00173 with
X = $-\text{CH}_2\text{COOH}$

Fe-00396



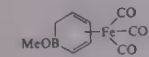
Fe-00412

As Fe-00220 with
X = $\text{MeNC}-$

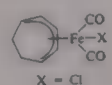
Fe-00380

As Fe-00173 with
X = $-\text{COOMe}$

Fe-00397



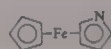
Fe-00413



Fe-00414

As Fe-00414 with
X = I

Fe-00415



Fe-00416

As Fe-00217 with
R = H₃CCO-

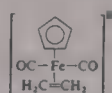
Fe-00417

As Fe-00275 with
X = NMe

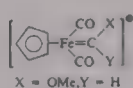
Fe-00418

(H₃C)₃CNCFe(CO)₄

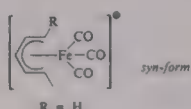
Fe-00419



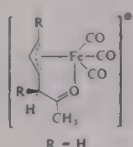
Fe-00420



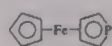
Fe-00421



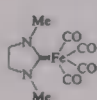
Fe-00422



Fe-00423



Fe-00424



Fe-00425



Fe-00426

As Fe-00173 with
X = Et

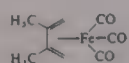
Fe-00427

As Fe-00189 with
L = SEt

Fe-00428

As Fe-00173 with
X = -CH₂OMe

Fe-00429



Fe-00430

As Fe-00273 with
R = R' = CH₃

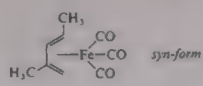
Fe-00431

As Fe-00174 with
X = -CH₂CH₃

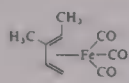
Fe-00432

As Fe-00358 with
R = R' = CH₃

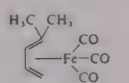
Fe-00433



Fe-00434



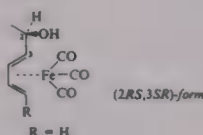
Fe-00435



Fe-00436

As Fe-00358 with
R = CH₃, R' = CH₂OH

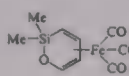
Fe-00437



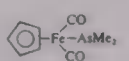
Fe-00438

As Fe-00174 with
X = -CH₂CH₂OH

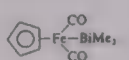
Fe-00439



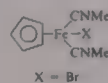
Fe-00440



Fe-00441



Fe-00442



Fe-00443

As Fe-00443 with
X = I

Fe-00444

As Fe-00297 with
X = NMe₂

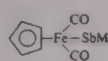
Fe-00445

(OC)₄Fe=C(OEt)NMe₂

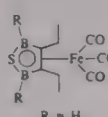
Fe-00446

As Fe-00189 with
L = -P(S)Me₂

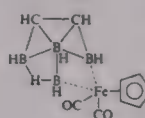
Fe-00447



Fe-00448



Fe-00449



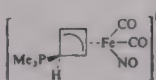
Fe-00450

(OC)₄Fe=C(NMe₂)₂

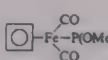
Fe-00451

As Fe-00321 with
X = CO

Fe-00452



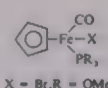
Fe-00453



Fe-00454



Fe-00455



Fe-00456

As Fe-00456 with
X = Cl, R = Me

Fe-00457

As Fe-00456 with
X = Cl, R = OMe

Fe-00458

As Fe-00456 with
X = I, R = Me

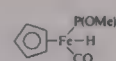
Fe-00459

As Fe-00456 with
X = I, R = OMe

Fe-00460

As Fe-00455 with
X = H

Fe-00461



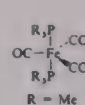
Fe-00462



Fe-00463



Fe-00464



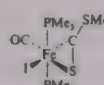
Fe-00465



Fe-00466



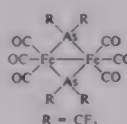
Fe-00467



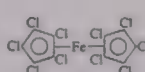
Fe-00468



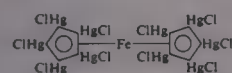
Fe-00469



Fe-00470



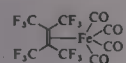
Fe-00471



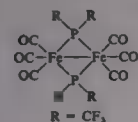
Fe-00472



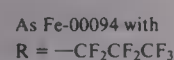
Fe-00473



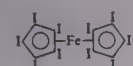
Fe-00474



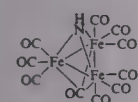
Fe-00475



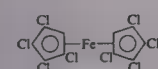
Fe-00476



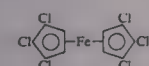
Fe-00477



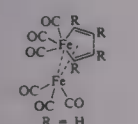
Fe-00478



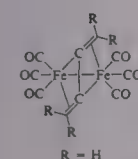
Fe-00479



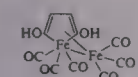
Fe-00480



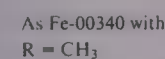
Fe-00481



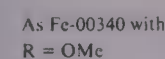
Fe-00482



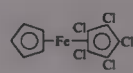
Fe-00483



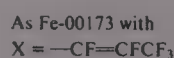
Fe-00484



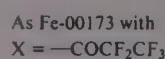
Fe-00485



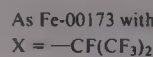
Fe-00486



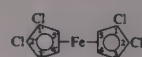
Fe-00487



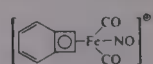
Fe-00488



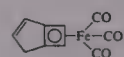
Fe-00489



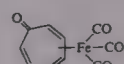
Fe-00490



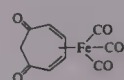
Fe-00492



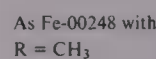
Fe-00493



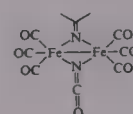
Fe-00494



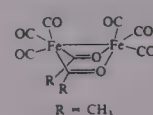
Fe-00495



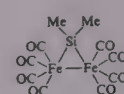
Fe-00496



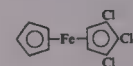
Fe-00497



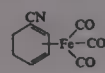
Fe-00498



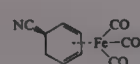
Fe-00499



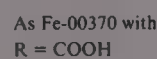
Fe-00500



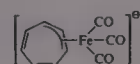
Fe-00501



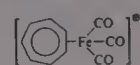
Fe-00502



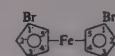
Fe-00503



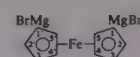
Fe-00504



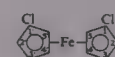
Fe-00505



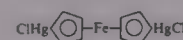
Fe-00506



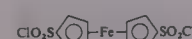
Fe-00508



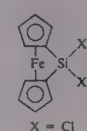
Fe-00509



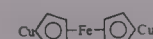
Fe-00511



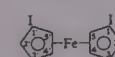
Fe-00513



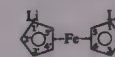
Fe-00514



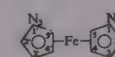
Fe-00515



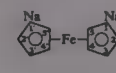
Fe-00516



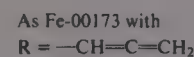
Fe-00518



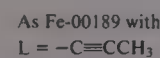
Fe-00520



Fe-00521



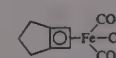
Fe-00522



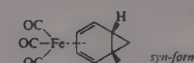
Fe-00523



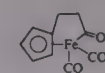
Fe-00524



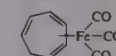
Fe-00525



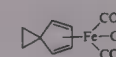
Fe-00526



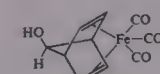
Fe-00527



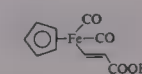
Fe-00528



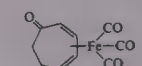
Fe-00529



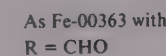
Fe-00530



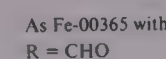
Fe-00531



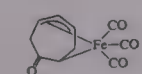
Fe-00532



Fe-00534



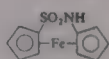
Fe-00535



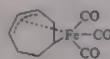
Fe-00536



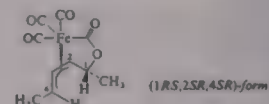
Fe-00537



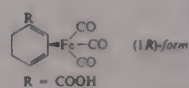
Fe-00553



Fe-00572



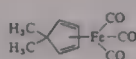
Fe-00588



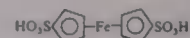
Fe-00538

As Fe-00149 with
R = $-\text{CH}_2\text{CH}(\text{NH}_2)\text{COOH}$

Fe-00554



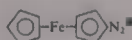
Fe-00573



Fe-00589

As Fe-00364 with
R = COOH

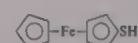
Fe-00539



Fe-00555



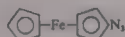
Fe-00574



Fe-00590

As Fe-00365 with
R = COOH

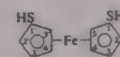
Fe-00540



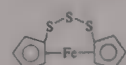
Fe-00556

As Fe-00149 with
R = $-\text{CH}(\text{CH}_3)_2$

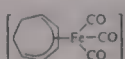
Fe-00575



Fe-00591



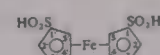
Fe-00541



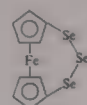
Fe-00557

As Fe-00365 with
R = CH_3

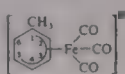
Fe-00576



Fe-00592



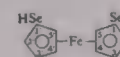
Fe-00542



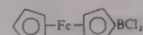
Fe-00558

As Fe-00538 with
R = CH_3

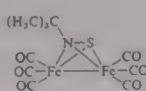
Fe-00577



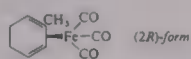
Fe-00593



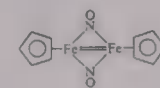
Fe-00543



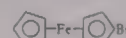
Fe-00562



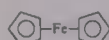
Fe-00578



Fe-00594



Fe-00544



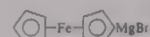
Fe-00563

As Fe-00146 with
R = CH_3

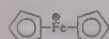
Fe-00579

As Fe-00281 with
R = Et

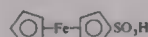
Fe-00595



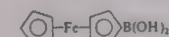
Fe-00545



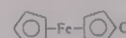
Fe-00564



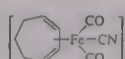
Fe-00580



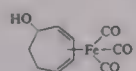
Fe-00596



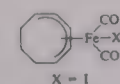
Fe-00546



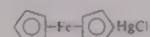
Fe-00565



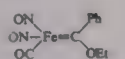
Fe-00582



Fe-00597



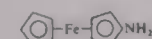
Fe-00547



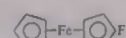
Fe-00566

As Fe-00358 with
R = COCH_3 , R' = CH_3

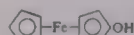
Fe-00583



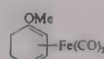
Fe-00598



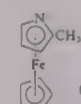
Fe-00548



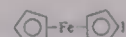
Fe-00567



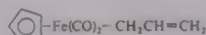
Fe-00584



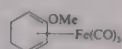
Fe-00599



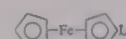
Fe-00549



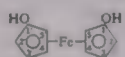
Fe-00568



Fe-00585



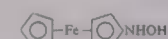
Fe-00550



Fe-00569

As Fe-00365 with
R = OMe

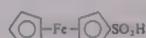
Fe-00586



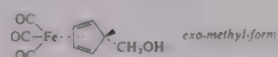
Fe-00600

As Fe-00414 with
X = CN

Fe-00551



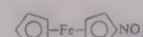
Fe-00570



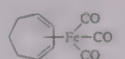
Fe-00587

As Fe-00189 with
L = $-\text{SC}(\text{S})\text{NMe}_2$

Fe-00601



Fe-00552



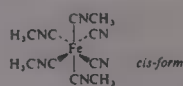
Fe-00571

As Fe-00149 with
R = $-\text{CH}_2\text{NMe}_2$

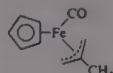
Fe-00602

As Fe-00318 with
R = H₃CCO-

Fe-00603



Fe-00618



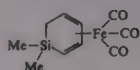
Fe-00619

As Fe-00173 with
X = -CH(CH₃)₂

Fe-00620

As Fe-00173 with
X = -CH₂CH₂CH₃

Fe-00621



Fe-00622

As Fe-00358 with
R = CH₂CH₂OH, R' = CH₃

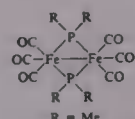
Fe-00623

As Fe-00438 with
R = CH₃

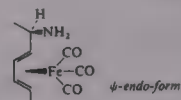
Fe-00624



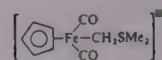
Fe-00625



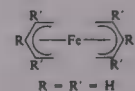
Fe-00626



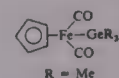
Fe-00627



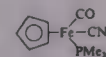
Fe-00628



Fe-00629



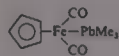
Fe-00630



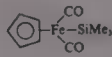
Fe-00631

As Fe-00220 with
X = PMe₃

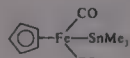
Fe-00632



Fe-00633



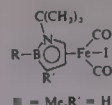
Fe-00634



Fe-00635

As Fe-00264 with
X = P(OMe)₃

Fe-00636



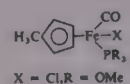
Fe-00637

Et₃PFe(CO)₄

Fe-00638

(EtO)₃PFe(CO)₄

Fe-00639



Fe-00640

As Fe-00640 with
X = I, R = OMe

Fe-00641



Fe-00642

As Fe-00455 with
X = Me

Fe-00643

As Fe-00033 with
X = Me

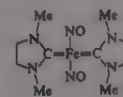
Fe-00644

As Fe-00034 with
X = Me

Fe-00645

As Fe-00035 with
X = Me

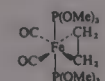
Fe-00646



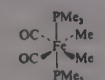
Fe-00647

AcFe(CO)₂(PMe₃)₂I

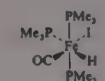
Fe-00648



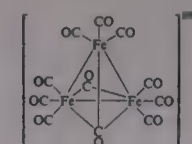
Fe-00649



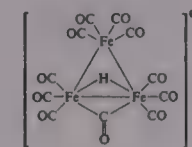
Fe-00650



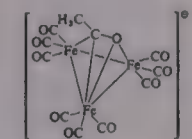
Fe-00651



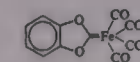
Fe-00652



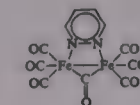
Fe-00653



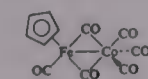
Fe-00654



Fe-00655



Fe-00656



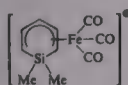
Fe-00657

PhNCFc(CO)₄

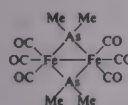
Fe-00658

As Fe-00042 with
X = -COPh

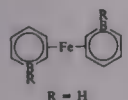
Fe-00659



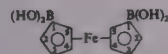
Fe-00611



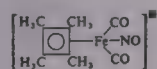
Fe-00612



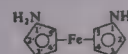
Fe-00613



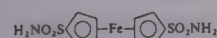
Fe-00614



Fe-00615



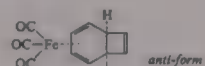
Fe-00616



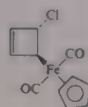
Fe-00617

As Fe-00147 with
R = $-\text{COCH}_2\text{Cl}$

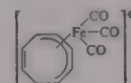
Fe-00660



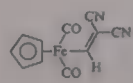
Fe-00673



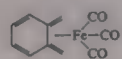
Fe-00687



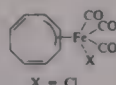
Fe-00701



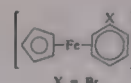
Fe-00661



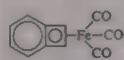
Fe-00674



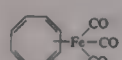
Fe-00688



Fe-00702



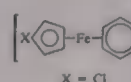
Fe-00662



Fe-00675

As Fe-00688 with
X = I

Fe-00689



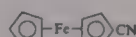
Fe-00703



Fe-00663

As Fe-00147 with
R = $-\text{CH}=\text{CH}_2$

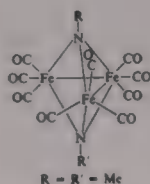
Fe-00676



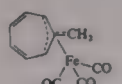
Fe-00690

As Fe-00702 with
X = Cl

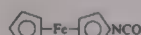
Fe-00704



Fe-00664



Fe-00677



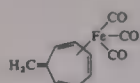
Fe-00691

As Fe-00702 with
X = F

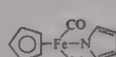
Fe-00705

As Fe-00664 with
R = Et, R' = H

Fe-00665



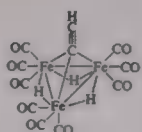
Fe-00678



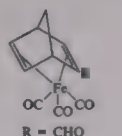
Fe-00692

As Fe-00702 with
X = NO_2

Fe-00706



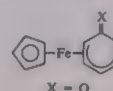
Fe-00666



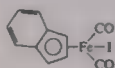
Fe-00679

As Fe-00075 with
X = Ph

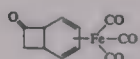
Fe-00693



Fe-00707



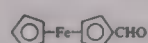
Fe-00667



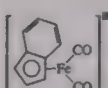
Fe-00680



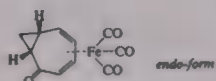
Fe-00694



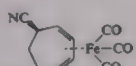
Fe-00708



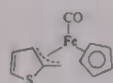
Fe-00668



Fe-00681



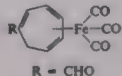
Fe-00695



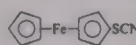
Fe-00709

As Fe-00070 with
R = $-\text{CH}_2\text{Ph}$

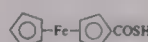
Fe-00669



Fe-00682



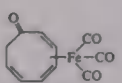
Fe-00696



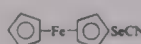
Fe-00710

As Fe-00342 with
X = NEt

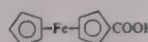
Fe-00670



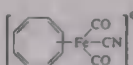
Fe-00683



Fe-00697



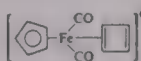
Fe-00711



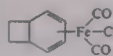
Fe-00671

As Fe-00682 with
R = COOH

Fe-00684



Fe-00698



Fe-00712



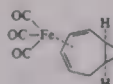
Fe-00672

As Fe-00147 with
R = $-\text{COCH}_3$

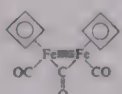
Fe-00685



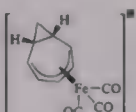
Fe-00699



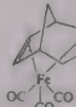
Fe-00713



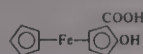
Fe-00686



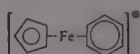
Fe-00700



Fe-00714



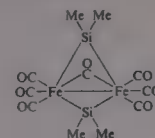
Fe-00715



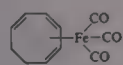
Fe-00734

As Fe-00703 with
X = NH₂

Fe-00750



Fe-00764



Fe-00716

As Fe-00707 with
X = NH

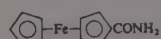
Fe-00735

As Fe-00702 with
X = NH₂

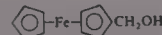
Fe-00751

As Fe-00363 with
R = COCH₃

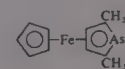
Fe-00717



Fe-00736



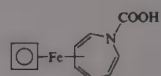
Fe-00752



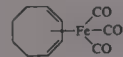
Fe-00765

As Fe-00365 with
R = COCH₃

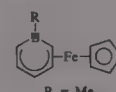
Fe-00718



Fe-00737



Fe-00753



Fe-00766

As Fe-00682 with
R = CH₂OH

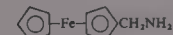
Fe-00719

As Fe-00597 with
X = CN

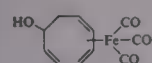
Fe-00738



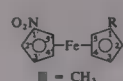
Fe-00754



Fe-00767



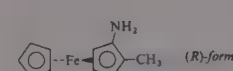
Fe-00720



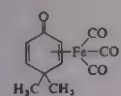
Fe-00739



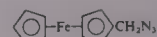
Fe-00755



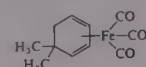
Fe-00768



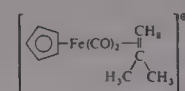
Fe-00722



Fe-00740



Fe-00756



Fe-00769

As Fe-00356 with
R = CH₃

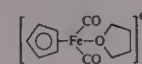
Fe-00723

As Fe-00702 with
X = OH

Fe-00741

As Fe-00145 with
R = CH₃

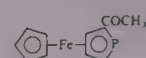
Fe-00757



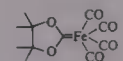
Fe-00770

As Fe-00358 with
R = COCH₃, R' = OAc

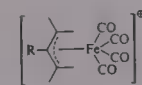
Fe-00724



Fe-00742



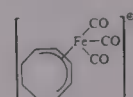
Fe-00758



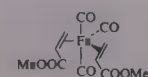
Fe-00771

As Fe-00707 with
X = S

Fe-00725



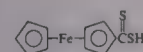
Fe-00744



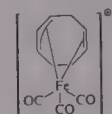
Fe-00759

As Fe-00195 with
R = CH₃

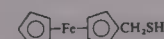
Fe-00772



Fe-00726



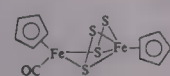
Fe-00745



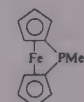
Fe-00760

As Fe-00423 with
R = CH₃

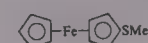
Fe-00773



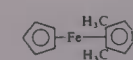
Fe-00727



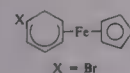
Fe-00746



Fe-00761



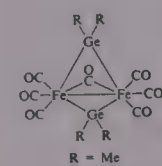
Fe-00774



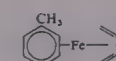
Fe-00728

As Fe-00702 with
X = SH

Fe-00747



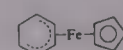
Fe-00762



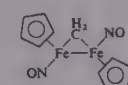
Fe-00775

As Fe-00728 with
X = Cl

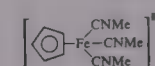
Fe-00729



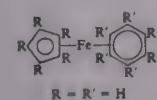
Fe-00748



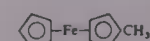
Fe-00763



Fe-00776



Fe-00733



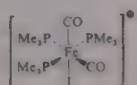
Fe-00749

As Fe-00173 with
X = -C(CH₃)₃

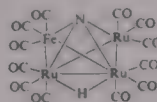
Fe-00777

As Fe-00173 with
 $X = -CH_2CH(CH_3)_2$

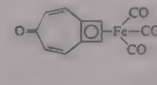
Fe-00778



Fe-00792



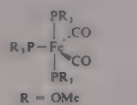
Fe-00804



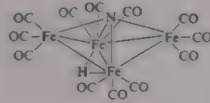
Fe-00815

As Fe-00189 with
 $L = -CH_2CH(OMe)_2$

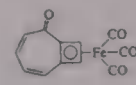
Fe-00779



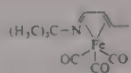
Fe-00793



Fe-00805



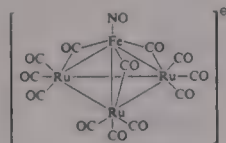
Fe-00816



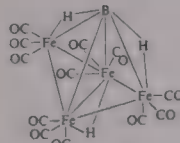
Fe-00780

$(MeNC)_5FeCN^{2+}$

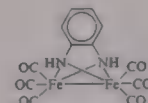
Fe-00781



Fe-00794



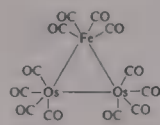
Fe-00806



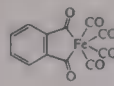
Fe-00817

As Fe-00189 with
 $L = -P(S)(OEt)_2$

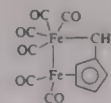
Fe-00782



Fe-00795



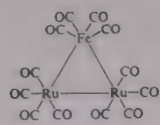
Fe-00807



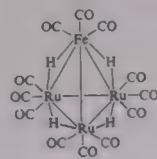
Fe-00818

As Fe-00449 with
 $R = Me$

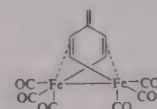
Fe-00783



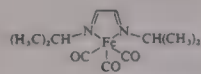
Fe-00796



Fe-00808



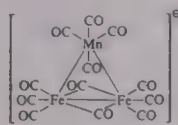
Fe-00819



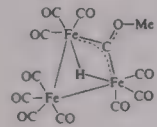
Fe-00784

As Fe-00455 with
 $X = Ac$

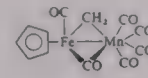
Fe-00785



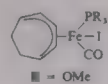
Fe-00797



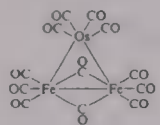
Fe-00809



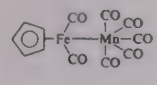
Fe-00820



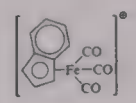
Fe-00786



Fe-00798



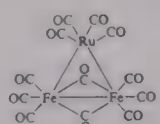
Fe-00810



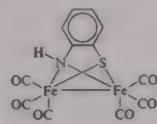
Fe-00821



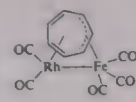
Fe-00787



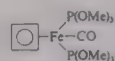
Fe-00799



Fe-00811



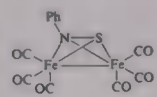
Fe-00822



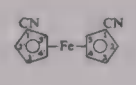
Fe-00788



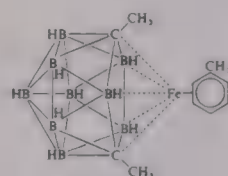
Fe-00800



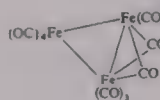
Fe-00812



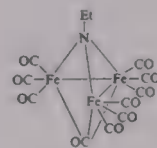
Fe-00823



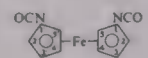
Fe-00789



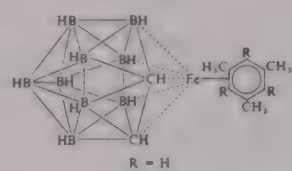
Fe-00801



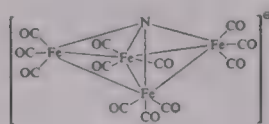
Fe-00813



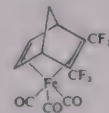
Fe-00825



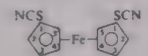
Fe-00790



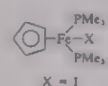
Fe-00802



Fe-00814



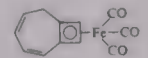
Fe-00826



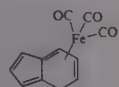
Fe-00791



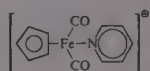
Fe-00803



Fe-00828



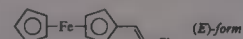
Fe-00830



Fe-00846

As Fe-00682 with
R = COCH₃

Fe-00862



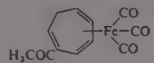
Fe-00875

As Fe-00105 with
R = Ph

Fe-00831

As Fe-00703 with
X = COOH

Fe-00847



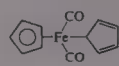
Fe-00863



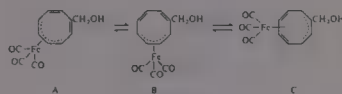
Fe-00876

As Fe-00865 with
R = CHO

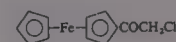
Fe-00832



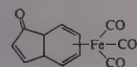
Fe-00848



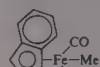
Fe-00864



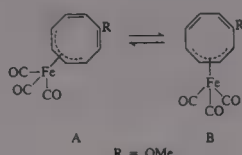
Fe-00877



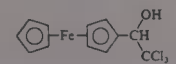
Fe-00833



Fe-00849



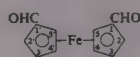
Fe-00865



Fe-00878

As Fe-00205 with
R = Ph, R' = H

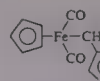
Fe-00834



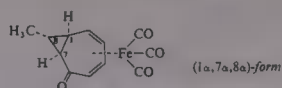
Fe-00850

As Fe-00205 with
R = H, R' = Ph

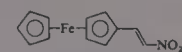
Fe-00835



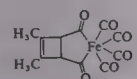
Fe-00852



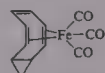
Fe-00866



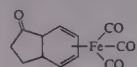
Fe-00881



Fe-00836



Fe-00853



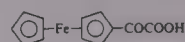
Fe-00867



Fe-00882

As Fe-00111 with
R = Ph, X = Br

Fe-00837



Fe-00854

As Fe-00679 with
R = COOMe

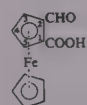
Fe-00868

As Fe-00702 with
X = COOH

Fe-00883

As Fe-00110 with
R = Ph, X = Br

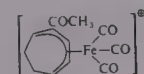
Fe-00838



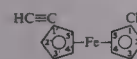
Fe-00855

As Fe-00005 with
R = Ph

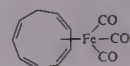
Fe-00869



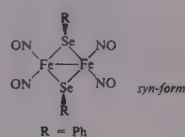
Fe-00884



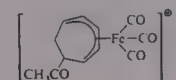
Fe-00839



Fe-00856



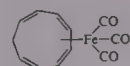
Fe-00870



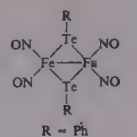
Fe-00885

As Fe-00111 with
R = Ph, X = Cl

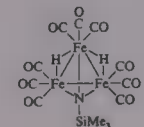
Fe-00840



Fe-00857



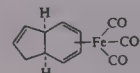
Fe-00871



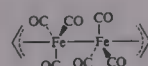
Fe-00886

As Fe-00110 with
R = Ph, X = Cl

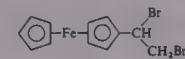
Fe-00841



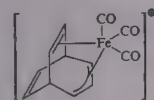
Fe-00858



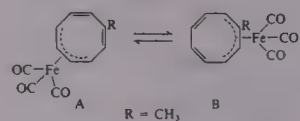
Fe-00872



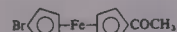
Fe-00887



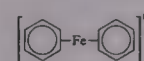
Fe-00842



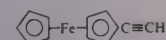
Fe-00859



Fe-00873



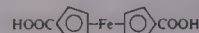
Fe-00888



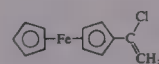
Fe-00843

As Fe-00703 with
X = CN

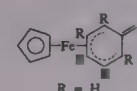
Fe-00844



Fe-00860



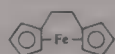
Fe-00874



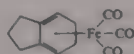
Fe-00890

As Fe-00702 with
X = CN

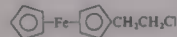
Fe-00845



Fe-00891



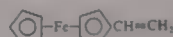
Fe-00907



Fe-00920



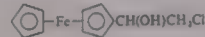
Fe-00938



Fe-00892



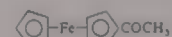
Fe-00908



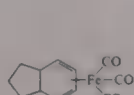
Fe-00921



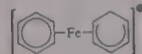
Fe-00939



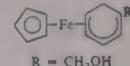
Fe-00893



Fe-00909



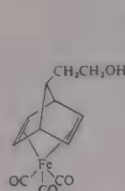
Fe-00922



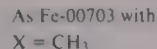
Fe-00940



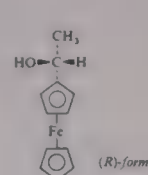
Fe-00894



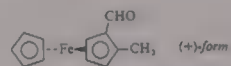
Fe-00910



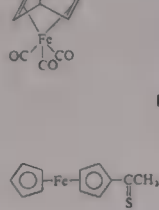
Fe-00923



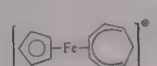
Fe-00941



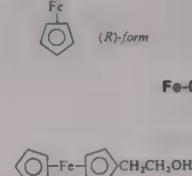
Fe-00895



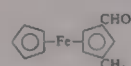
Fe-00911



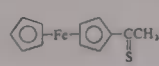
Fe-00924



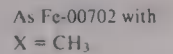
Fe-00942



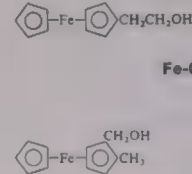
Fe-00896



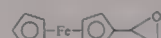
Fe-00912



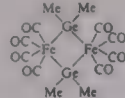
Fe-00925



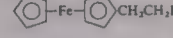
Fe-00943



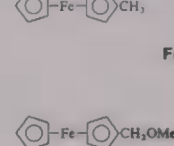
Fe-00897



Fe-00913



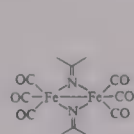
Fe-00926



Fe-00944



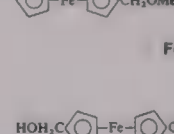
Fe-00898



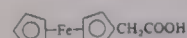
Fe-00914



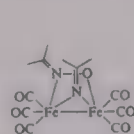
Fe-00927



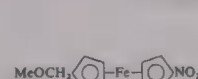
Fe-00945



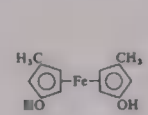
Fe-00899



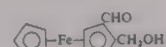
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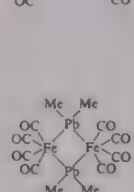
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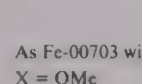
Fe-00946



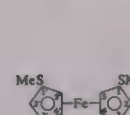
Fe-00900



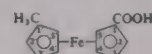
Fe-00916



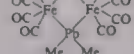
Fe-00929



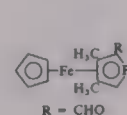
Fe-00947



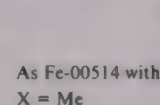
Fe-00901



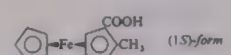
Fe-00917



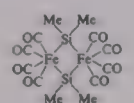
Fe-00930



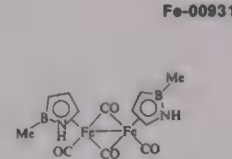
Fe-00948



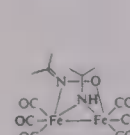
Fe-00902



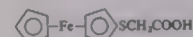
Fe-00918



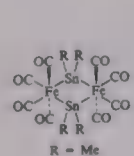
Fe-00931



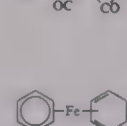
Fe-00949



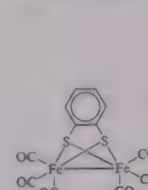
Fe-00904



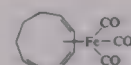
Fe-00919



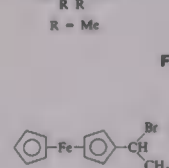
Fe-00932



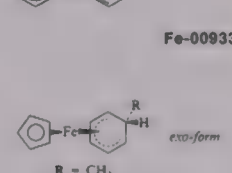
Fe-00950



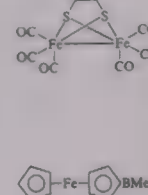
Fe-00905



Fe-00910



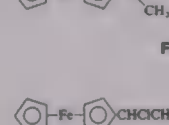
Fe-00933



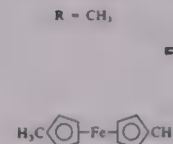
Fe-00951



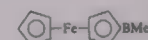
Fe-00906



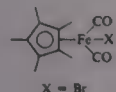
Fe-00911



Fe-00934



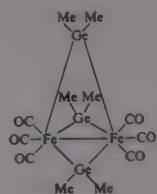
Fe-00952



Fe-00953

As Fe-00629 with
R = CH₃, R' = H

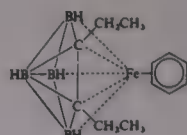
Fe-00970



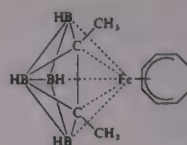
Fe-00971

Fe(CNMe)₆^{••}

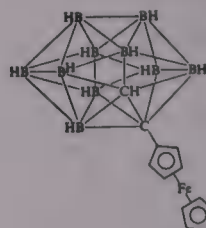
Fe-00972



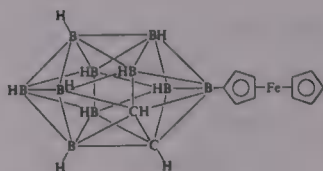
Fe-00973



Fe-00974



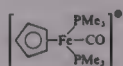
Fe-00975



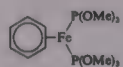
Fe-00976

As Fe-00791 with
X = CN

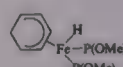
Fe-00977



Fe-00978



Fe-00979



Fe-00980



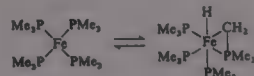
Fe-00980

As Fe-00791 with
X = Me

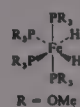
Fe-00981

[FeMe(CO)₂(PMe₃)₃][•]

Fe-00982



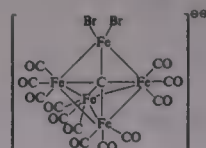
Fe-00983



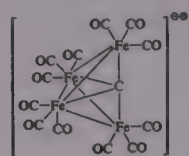
Fe-00984

As Fe-00984 with
R = Me

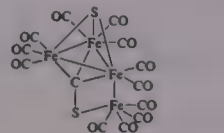
Fe-00985



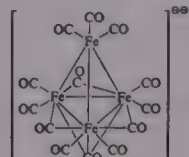
Fe-00986



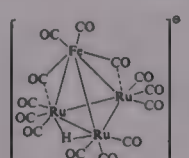
Fe-00987



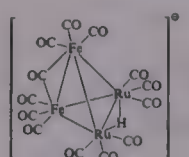
Fe-00988



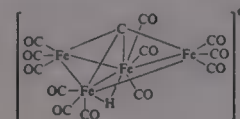
Fe-00989



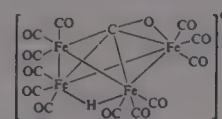
Fe-00990



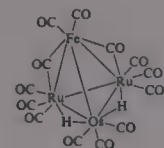
Fe-00991



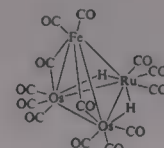
Fe-00992



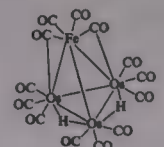
Fe-00993



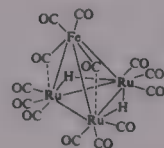
Fe-00994



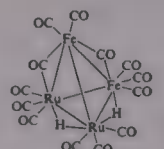
Fe-00995



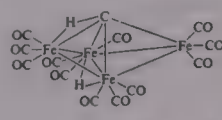
Fe-00996



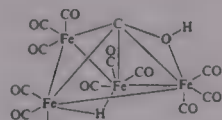
Fe-00997



Fe-00998



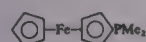
Fe-01000



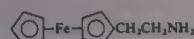
Fe-01001

As Fe-00173 with
X = C₆F₅

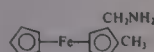
Fe-01002



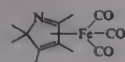
Fe-00954



Fe-00955



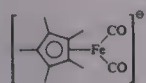
Fe-00956



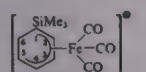
Fe-00957

As Fe-00931 with
R = CH₂OH

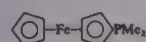
Fe-00958



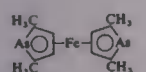
Fe-00959



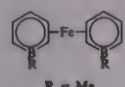
Fe-00960



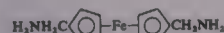
Fe-00963



Fe-00964



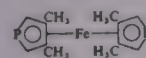
Fe-00965



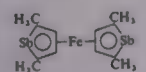
Fe-00966

As Fe-00364 with
R = SiMe₃

Fe-00967



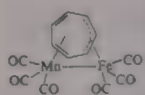
Fe-00968



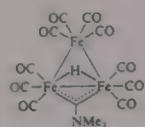
Fe-00969

As Fe-00189 with
L = SC₆F₅

Fe-01003



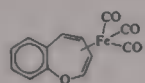
Fe-01004



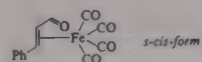
Fe-01005

As Fe-00149 with
R = Ph

Fe-01006



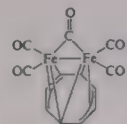
Fe-01007



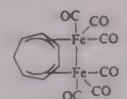
Fe-01008



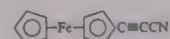
Fe-01009



Fe-01010



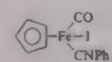
Fe-01011



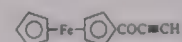
Fe-01012

As Fe-00171 with
X = Ph

Fe-01013



Fe-01014



Fe-01015

As Fe-00297 with
X = SPh

Fe-01016

As Fe-00173 with
X = Ph

Fe-01017



Fe-01018

As Fe-00189 with
L = SPh

Fe-01019

As Fe-00173 with
X = -SePh

Fe-01020

As Fe-00173 with
X = -TePh

Fe-01021

As Fe-00174 with
X = Ph

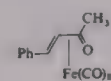
Fe-01022

As Fe-00273 with
R = Ph, R' = H

Fe-01023

As Fe-00865 with
R = COCH₃

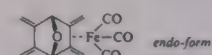
Fe-01024



Fe-01025

As Fe-00205 with
R = CH₃, R' = Ph

Fe-01026



Fe-01027

As Fe-00189 with
L = SO₂Ph

Fe-01028

As Fe-00174 with
X = SPh

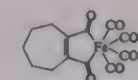
Fe-01029

(OC)₄Fe=C(OEt)Ph

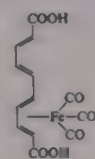
Fe-01030

As Fe-00865 with
R = COOMe

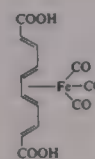
Fe-01031



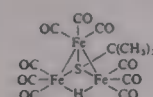
Fe-01032



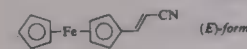
Fe-01033



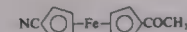
Fe-01034



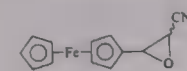
Fe-01035



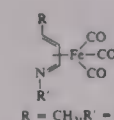
Fe-01036



Fe-01037



Fe-01038



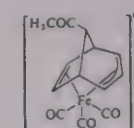
Fe-01039

As Fe-01039 with
R = Ph, R' = Me

Fe-01040

(OC)₄Fe=C(NMe₂)Ph

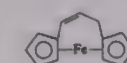
Fe-01041



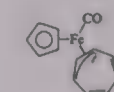
Fe-01042

(OC)₅CrPMe₂PMe₂Fe(CO)₄

Fe-01043



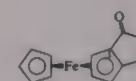
Fe-01044



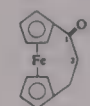
Fe-01045



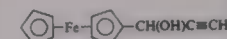
Fe-01046



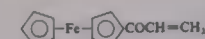
Fe-01047



Fe-01048



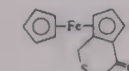
Fe-01050



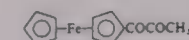
Fe-01051



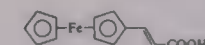
Fe-01052



Fe-01053



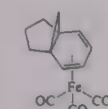
Fe-01054



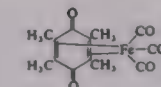
Fe-01055



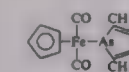
Fe-01056



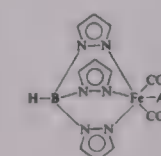
Fe-01057



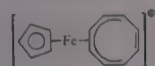
Fe-01058



Fe-01059



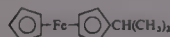
Fe-01060



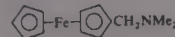
Fe-01061



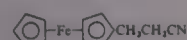
Fe-01079



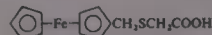
Fe-01094



Fe-01108



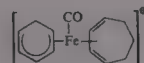
Fe-01062



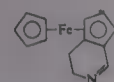
Fe-01080



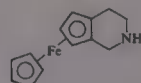
Fe-01095



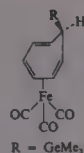
Fe-01109



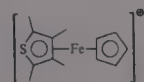
Fe-01063



Fe-01081



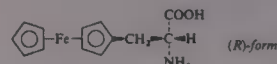
Fe-01096



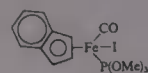
Fe-01110

As Fe-00703 with
X = COCH₃

Fe-01064



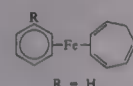
Fe-01082



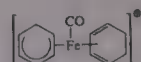
Fe-01097

As Fe-01092 with
X = -B(OH)₂

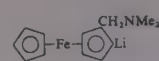
Fe-01111



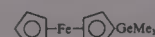
Fe-01065



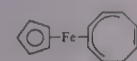
Fe-01083



Fe-01098



Fe-01112



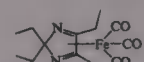
Fe-01066

As Fe-00931 with
R = -COCH₃

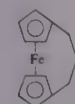
Fe-01084

As Fe-00702 with
X = NMe₂

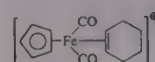
Fe-01099



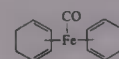
Fe-01114



Fe-01067



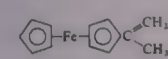
Fe-01085



Fe-01100

As Fe-01102 with
R = CH₂OH

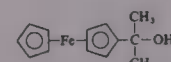
Fe-01115



Fe-01068

As Fe-00374 with
R = CH₃

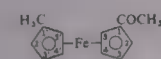
Fe-01086



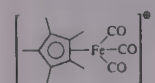
Fe-01101

As Fe-00953 with
X = Me

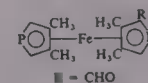
Fe-01116



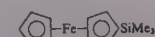
Fe-01069



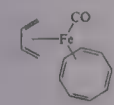
Fe-01087



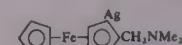
Fe-01102



Fe-01117



Fe-01072



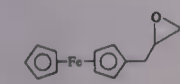
Fe-01089

As Fe-01102 with
R = COOH

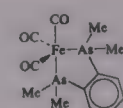
Fe-01103



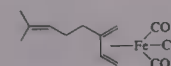
Fe-01118



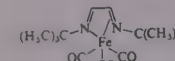
Fe-01073



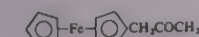
Fe-01090



Fe-01104



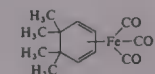
Fe-01119



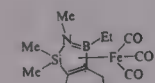
Fe-01074



Fe-01091



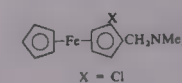
Fe-01105



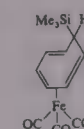
Fe-01120

As Fe-00940 with
R = COOMe

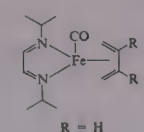
Fe-01075



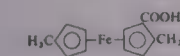
Fe-01092



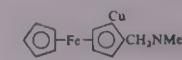
Fe-01106



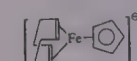
Fe-01121



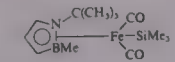
Fe-01076



Fe-01093



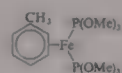
Fe-01107



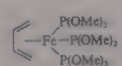
Fe-01122



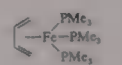
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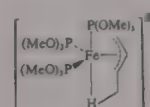
Fe-01123



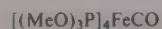
Fe-01124



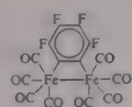
Fe-01125



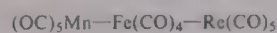
Fe-01126



Fe-01127



Fe-01128



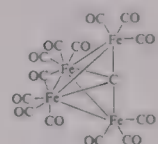
Fe-01129



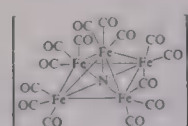
Fe-01130



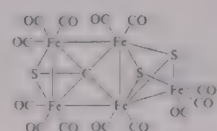
Fe-01131



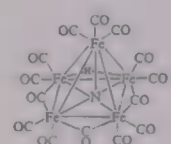
Fe-01132



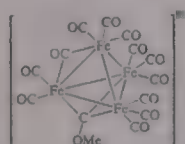
Fe-01133



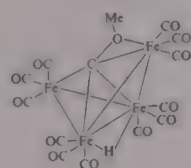
Fe-01134



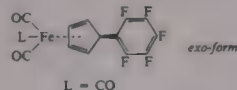
Fe-01135



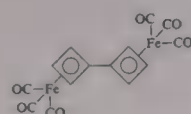
Fe-01136



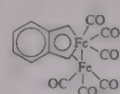
Fe-01137



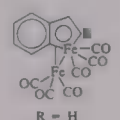
Fe-01138



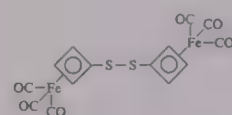
Fe-01139



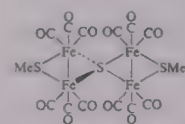
Fe-01140



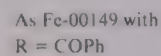
Fe-01141



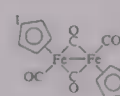
Fe-01142



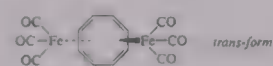
Fe-01143



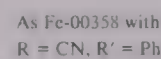
Fe-01144



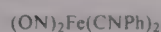
Fe-01145



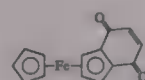
Fe-01146



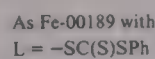
Fe-01147



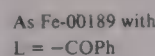
Fe-01148



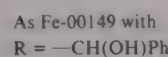
Fe-01149



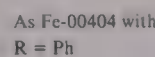
Fe-01150



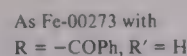
Fe-01151



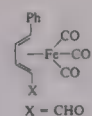
Fe-01152



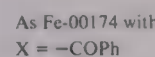
Fe-01153



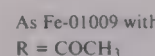
Fe-01154



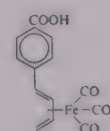
Fe-01155



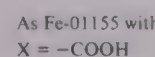
Fe-01156



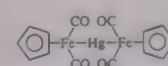
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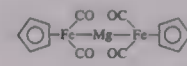
Fe-01158



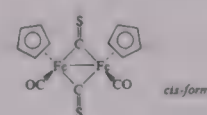
Fe-01159



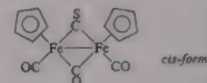
Fe-01160



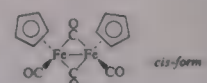
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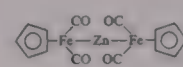
Fe-01162



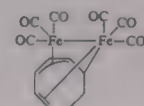
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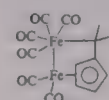
Fe-01164



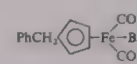
Fe-01165



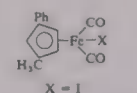
Fe-01166



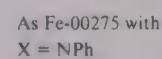
Fe-01167



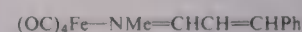
Fe-01168



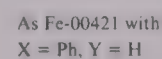
Fe-01169



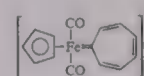
Fe-01170



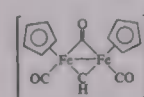
Fe-01171



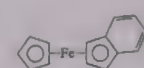
Fe-01172



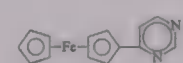
Fe-01173



Fe-01174



Fe-01175



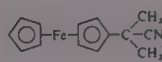
Fe-01176

As Fe-00173 with
X = $-\text{CH}_2\text{Ph}$

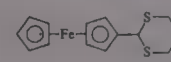
Fe-01177



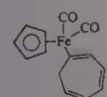
Fe-01194



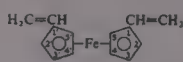
Fe-01213



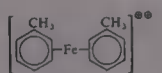
Fe-01230



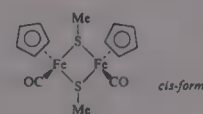
Fe-01178



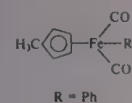
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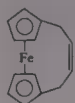
Fe-01214



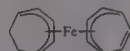
Fe-01231



Fe-01179



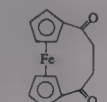
Fe-01197



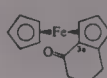
Fe-01215

As Fe-01065 with
R = CH_3

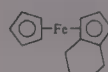
Fe-01216



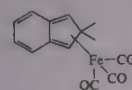
Fe-01180



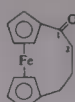
Fe-01198



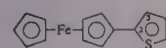
Fe-01217



Fe-01181



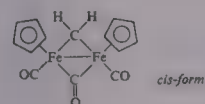
Fe-01199



Fe-01182



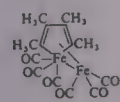
Fe-01201



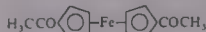
Fe-01183



Fe-01202



Fe-01184



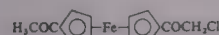
Fe-01203

As Fe-00482 with
R = CH_3

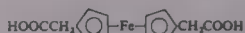
Fe-01185



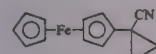
Fe-01206



Fe-01186



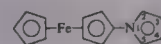
Fe-01207



Fe-01187



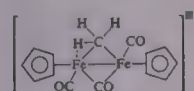
Fe-01208



Fe-01188

As Fe-00005 with
R = $-\text{CH}_2\text{Ph}$

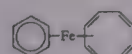
Fe-01209



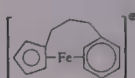
Fe-01191

As Fe-00870 with
R = $-\text{CH}_2\text{Ph}$

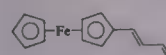
Fe-01210



Fe-01192



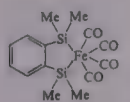
Fe-01212



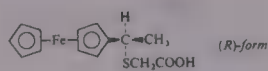
Fe-01193



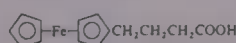
Fe-01212



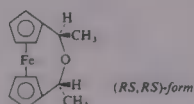
Fe-01229



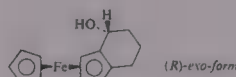
Fe-01227



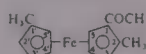
Fe-01228



Fe-01225



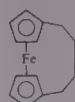
Fe-01222



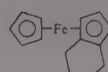
Fe-01220

As Fe-01092 with
X = CN

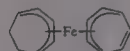
Fe-01219



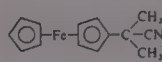
Fe-01218



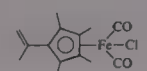
Fe-01217



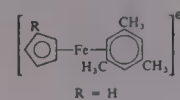
Fe-01215



Fe-01213



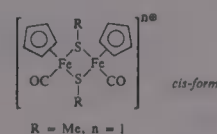
Fe-01234



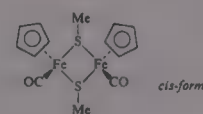
Fe-01235

As Fe-01232 with
R = Me , $n = 2$

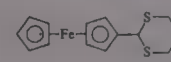
Fe-01233



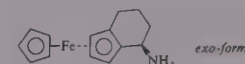
Fe-01232



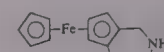
Fe-01231



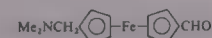
Fe-01230



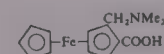
Fe-01236



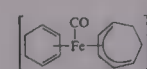
Fe-01237



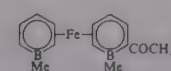
Fe-01238



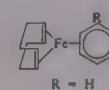
Fe-01239



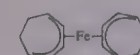
Fe-01240



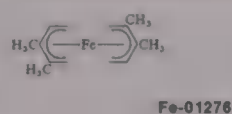
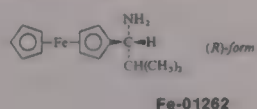
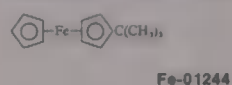
Fe-01241



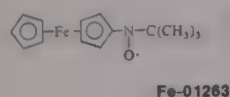
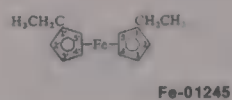
Fe-01242



Fe-01243

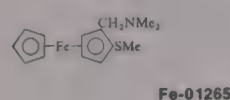
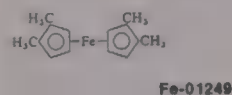
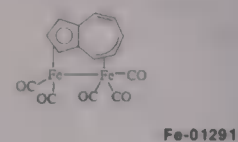
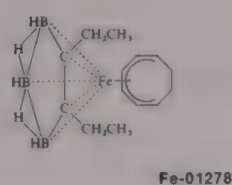
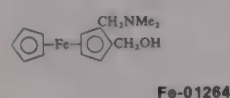
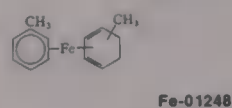


As Fe-00342 with
X = PPh
Fe-01289

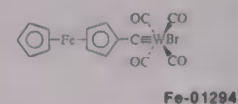
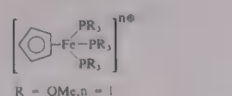
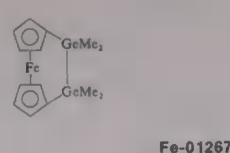
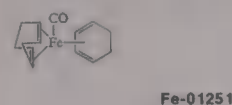
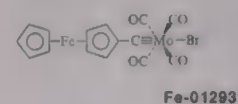
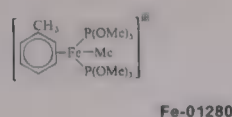
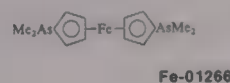
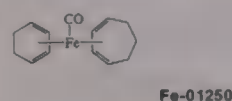
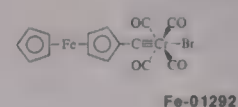


As Fe-00629 with
R = H, R' = Me
Fe-01277

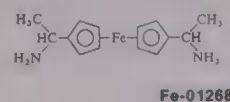
As Fe-01138 with
L = MeNC-
Fe-01290



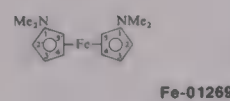
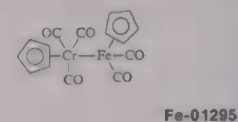
As Fe-00790 with
R = CH3
Fe-01279



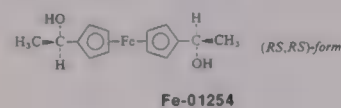
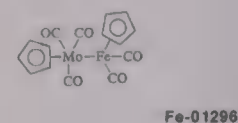
As Fe-01102 with
R = COCH3
Fe-01252



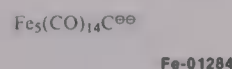
As Fe-01281 with
R = Me, n = 1
Fe-01282



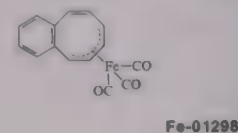
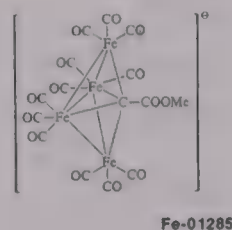
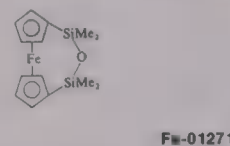
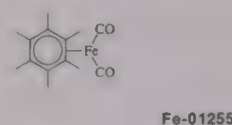
As Fe-01281 with
R = Me, n = 2
Fe-01283



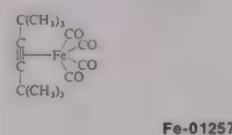
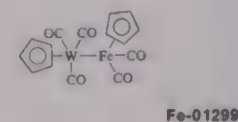
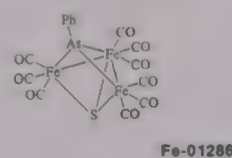
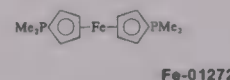
As Fe-01102 with
R = -CH(OH)CH3
Fe-01270



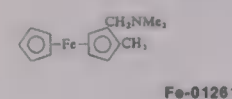
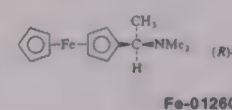
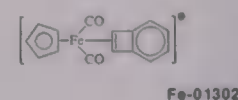
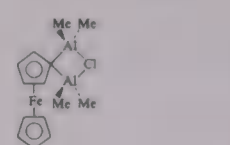
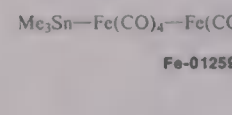
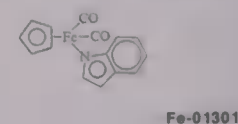
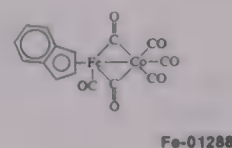
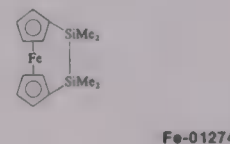
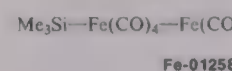
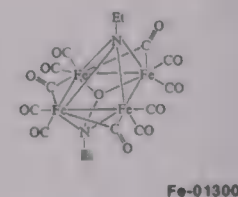
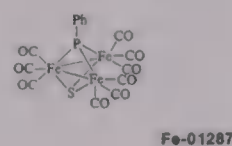
As Fe-00189 with
L = -C≡CPh
Fe-01297

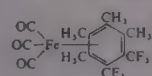


As Fe-00953 with
X = Ac
Fe-01256

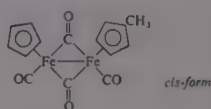


As Fe-01102 with
R = -CH2CH3
Fe-01273

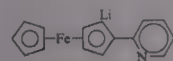




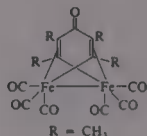
Fe-01303



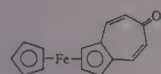
Fe-01317



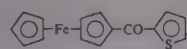
Fe-01304



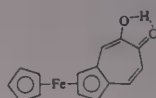
Fe-01318



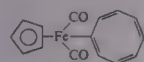
Fe-01305



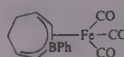
Fe-01306



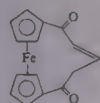
Fe-01319



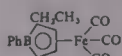
Fe-01307



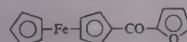
Fe-01320



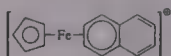
Fe-01308



Fe-01321



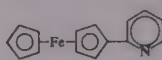
Fe-01309



Fe-01322

As Fe-00363 with
R = Ph

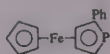
Fe-01310



Fe-01323

As Fe-00364 with
R = Ph

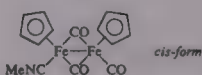
Fe-01311



Fe-01325

As Fe-00365 with
R = Ph

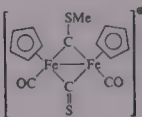
Fe-01312



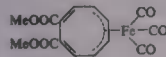
Fe-01327

As Fe-01155 with
X = -COCH₃

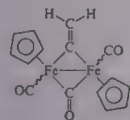
Fe-01313



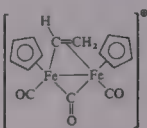
Fe-01328



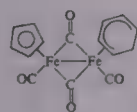
Fe-01314



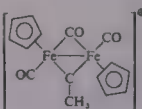
Fe-01315



Fe-01329



Fe-01316



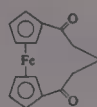
Fe-01330

As Fe-01179 with
R = -CH₂Ph

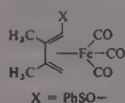
Fe-01331

As Fe-01169 with
X = Me

Fe-01332



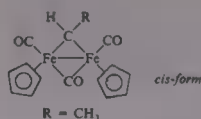
Fe-01333



Fe-01334

As Fe-01334 with
X = PhSO₂-

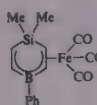
Fe-01335



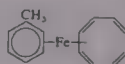
Fe-01336

As Fe-01336 with
R = OMe

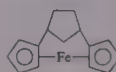
Fe-01337



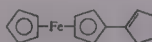
Fe-01338



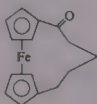
Fe-01339



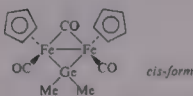
Fe-01340



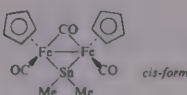
Fe-01341



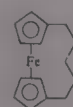
Fe-01342



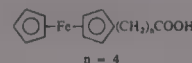
Fe-01343



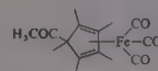
Fe-01344



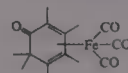
Fe-01345



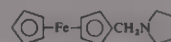
Fe-01346



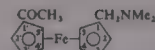
Fe-01347



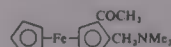
Fe-01348



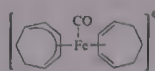
Fe-01349



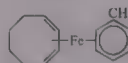
Fe-01350



Fe-01351



Fe-01352



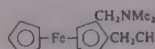
Fe-01353

As Fe-01242 with
R = CH₃

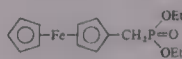
Fe-01354

As Fe-00147 with
R = -C(CH₃)₃

Fe-01355



Fe-01356



Fe-01357

As Fe-01102 with
R = -C(OH)(CH₃)₂

Fe-01358



Fe-01359

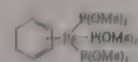
As Fe-01121 with
R = CH₃



Fe-01380

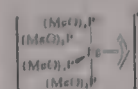
Fe-01381

As Fe-00465 with
R = OH

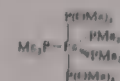


Fe-01382

Fe-01383



Fe-01384



Fe-01385

Fe[P(OMe)₃]₃

Fe-01386

[HFe[P(OMe)₃]₃]⁺

Fe-01387

(C₆F₅)₂Fe(CO)₄

Fe-01388

Pb[Fe(CO)₄]₄

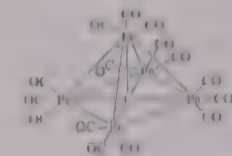
Fe-01389

Sn[Fe(CO)₄]₄

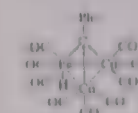
Fe-01390

Ce[Fe(CO)₄]₄

Fe-01391



Fe-01392



Fe-01393



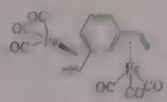
Fe-01394

(OC)₄FeAsPh₂⁺

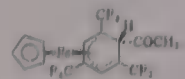
Fe-01395

(OC)₄FePPh₂⁺

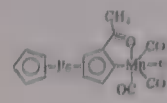
Fe-01396



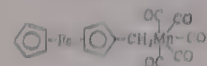
Fe-01397



Fe-01398



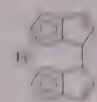
Fe-01399



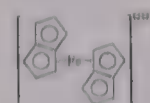
Fe-01400

(Ph₃PH)Fe(CO)₄

Fe-01401



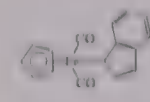
Fe-01402



Fe-01403



Fe-01404



Fe-01405



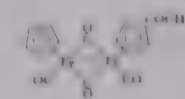
Fe-01406



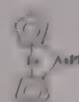
Fe-01407

As Fe-01388 with
R = CHO, R' = Ph

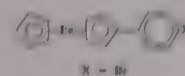
Fe-01408



Fe-01409



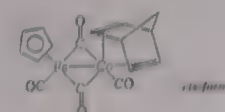
Fe-01391



Fe-01392

As Fe-01392 with
X = Cl

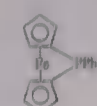
Fe-01393



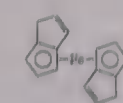
Fe-01394

As Fe-01392 with
X = NO₂

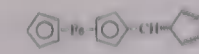
Fe-01395



Fe-01396



Fe-01397



Fe-01398



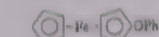
Fe-01399



Fe-01400

As Fe-01392 with
X = OH

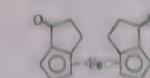
Fe-01401



Fe-01402



Fe-01403



Fe-01404



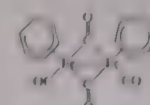
Fe-01405



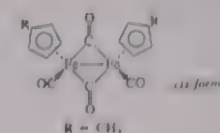
Fe-01406



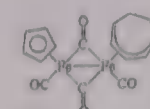
Fe-01407



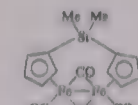
Fe-01408



Fe-01409



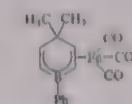
Fe-01410



Fe-01411

As Fe-00766 with
R = Ph

Fe-01412



Fe-01413



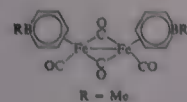
Fe-01414



Fe-01415



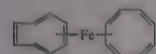
Fe-01416



Fe-01417

As Fe-00637 with
R = Ph, R' = CH₃

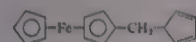
Fe-01430



Fe-01418

As Fe-01235 with
R = COCH₃

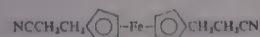
Fe-01431



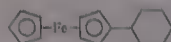
Fe-01419



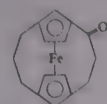
Fe-01432



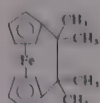
Fe-01420



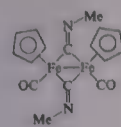
Fe-01433



Fe-01421



Fe-01434



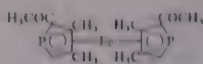
Fe-01422

As Fe-01346 with
n = 5

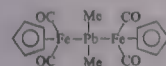
Fe-01435

As Fe-01336 with
R = H₃CCH₂-

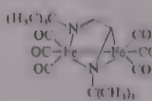
Fe-01423



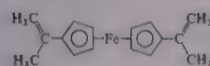
Fe-01436



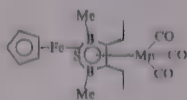
Fe-01424



Fe-01437



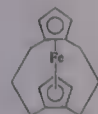
Fe-01425



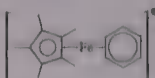
Fe-01438

As Fe-00733 with
R = CH₃, R' = H

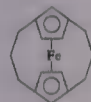
Fe-01439



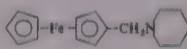
Fe-01426



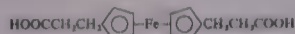
Fe-01440



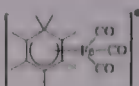
Fe-01427



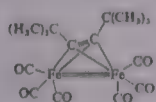
Fe-01441



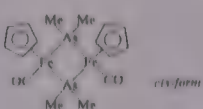
Fe-01428



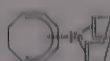
Fe-01442



Fe-01429



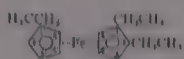
Fe-01443



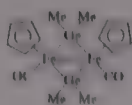
Fe-01444



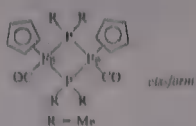
Fe-01445



Fe-01446



Fe-01450



Fe-01451



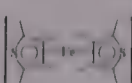
Fe-01452



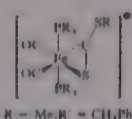
Fe-01453



Fe-01454



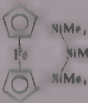
Fe-01455



Fe-01457



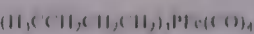
Fe-01458



Fe-01459



Fe-01460



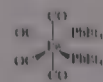
Fe-01461



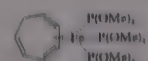
Fe-01462

As Fe-00328 with
R = Ph, R' = H

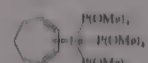
Fe-01463



Fe-01464



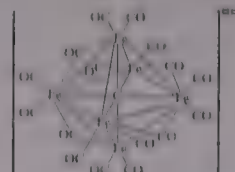
Fe-01465



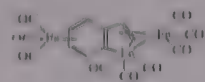
Fe-01466



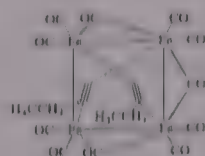
Fe-01467



Fe-01468



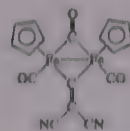
Fe-01469



Fe-01470



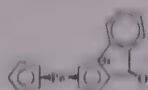
Fe-01471



Fe-01472



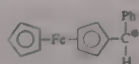
Fe-01473



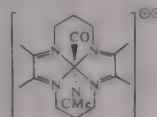
Fe-01474

As Fe-00859 with
R = Ph

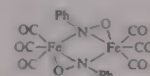
Fe-01475



Fe-01491



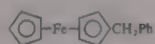
Fe-01506



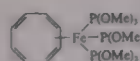
Fe-01519

As Fe-00682 with
R = C^oPh

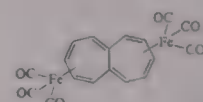
Fe-01476



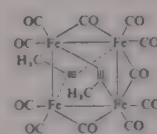
Fe-01492



Fe-01507



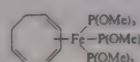
Fe-01520



Fe-01477

As Fe-00934 with
R = Ph

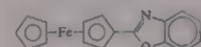
Fe-01493



Fe-01509

As Fe-00281 with
R = Ph

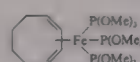
Fe-01521



Fe-01478

As Fe-00728 with
X = Ph

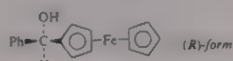
Fe-01494



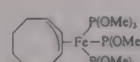
Fe-01510

As Fe-00282 with
R = Ph

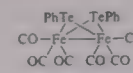
Fe-01522



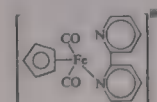
Fe-01495



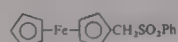
Fe-01511



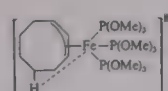
Fe-01523



Fe-01479



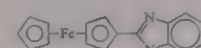
Fe-01496



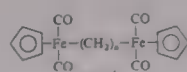
Fe-01512

As Fe-00205 with
R = R' = Ph

Fe-01524



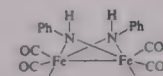
Fe-01480



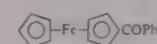
Fe-01497

As Fe-00281 with
R = C₆F₅

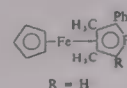
Fe-01513



Fe-01525



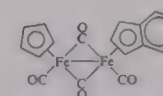
Fe-01481



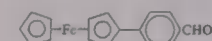
Fe-01498

As Fe-00241 with
R = C₆F₅

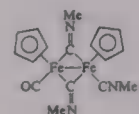
Fe-01514



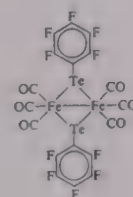
Fe-01526



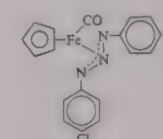
Fe-01482



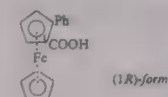
Fe-01499



Fe-01515



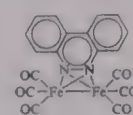
Fe-01527



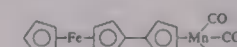
Fe-01483

As Fe-00890 with
R = CH₃

Fe-01500



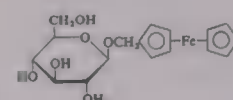
Fe-01516



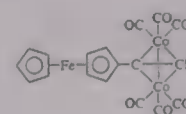
Fe-01528



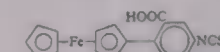
Fe-01484



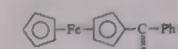
Fe-01501



Fe-01517



Fe-01530



Fe-01486

As Fe-00733 with
R = H, R' = CH₃

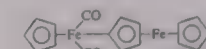
Fe-01502

As Fe-00280 with
R = Ph

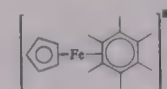
Fe-01518

As Fe-01039 with
R = R' = Ph

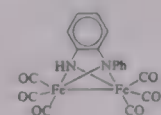
Fe-01531



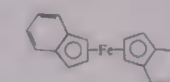
Fe-01487



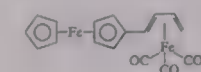
Fe-01503



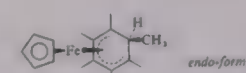
Fe-01519



Fe-01532



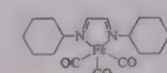
Fe-01488



Fe-01504

As Fe-00703 with
X = Ph

Fe-01489



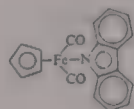
Fe-01505

As Fe-00702 with
X = Ph

Fe-01490

As Fe-00205 with
R = C(Ph), R' = Ph

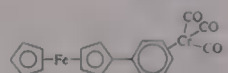
Fe-01597



Fe-01598

$(OC)_4CFe-NPh=CHCH=CHPh$

Fe-01599



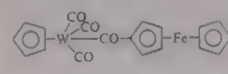
Fe-01600

As Fe-00358 with
R = R' = Ph

Fe-01601

As Fe-00273 with
R = R' = Ph

Fe-01602



Fe-01603

$Ph_3AsFe(NO)_2CO$

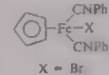
Fe-01604

$Ph_3AsFeCN(NO)_2$

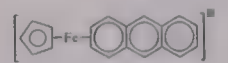
Fe-01605

As Fe-00169 with
X = Ph

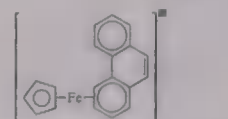
Fe-01606



Fe-01607



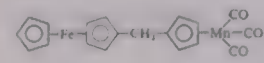
Fe-01608



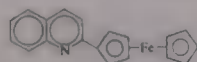
Fe-01609

As Fe-01607 with
X = I

Fe-01610



Fe-01611



Fe-01612

As Fe-00173 with
X = -NPh₂

Fe-01613

$Ph_3PFe(NO)_2CO$

Fe-01614

$Ph_3SbFe(NO)_2CO$

Fe-01615

$(PhO)_3PFe(NO)_2CO$

Fe-01616

$Ph_3PFeCN(NO)_2$

Fe-01617

As Fe-00173 with
X = PPh₂

Fe-01618

As Fe-00189 with
L = -P(Se)Ph₂

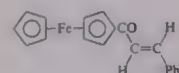
Fe-01619

As Fe-00189 with
L = -P(O)Ph₂

Fe-01620



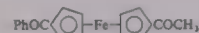
Fe-01621



Fe-01622



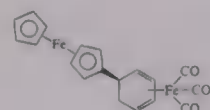
Fe-01623



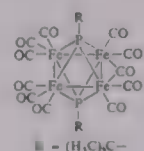
Fe-01624



Fe-01625



Fe-01626



Fe-01627



Fe-01628

As Fe-01498 with
R = -COCH₃

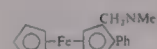
Fe-01629

As Fe-01102 with
R = C(Ph)

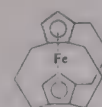
Fe-01630

As Fe-01497 with
n = 5

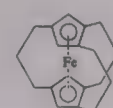
Fe-01631



Fe-01632



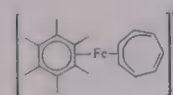
Fe-01633



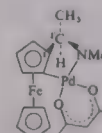
Fe-01634

As Fe-01575 with
R = -CH₂Ph

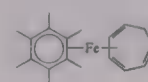
Fe-01635



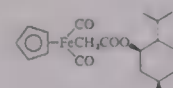
Fe-01636



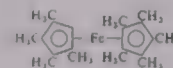
Fe-01637



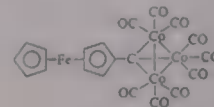
Fe-01638



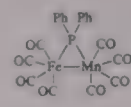
Fe-01639



Fe-01640



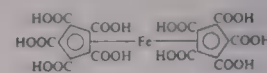
Fe-01641



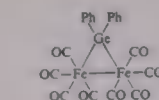
Fe-01642

As Fe-00248 with
R = Ph

Fe-01643



Fe-01644



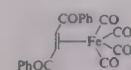
Fe-01645

As Fe-01141 with
R = Ph

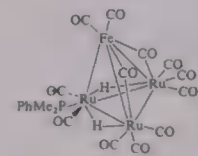
Fe-01646

As Fe-00498 with
R = Ph

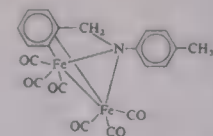
Fe-01647



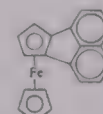
Fe-01648



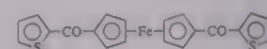
Fe-01649



Fe-01650



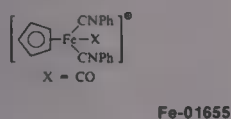
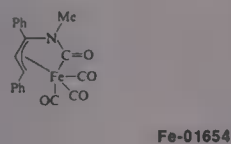
Fe-01651



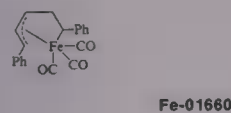
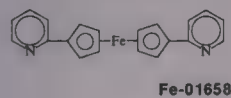
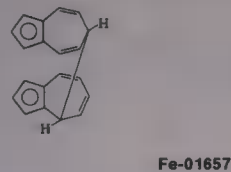
Fe-01652

As Fe-00281 with
R = -CH₂Ph

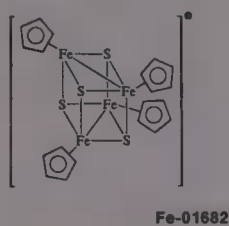
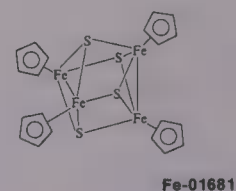
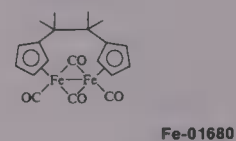
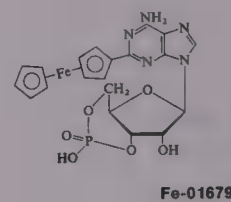
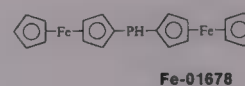
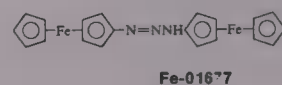
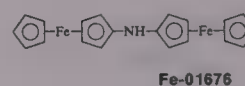
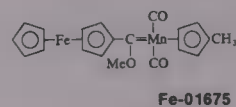
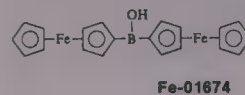
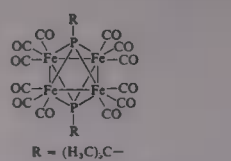
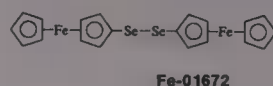
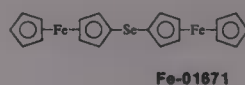
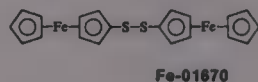
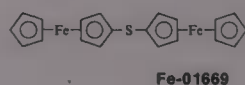
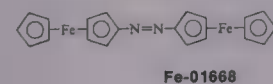
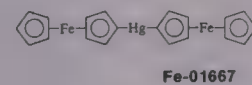
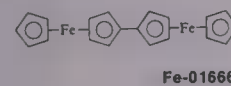
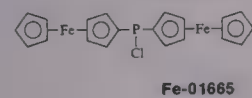
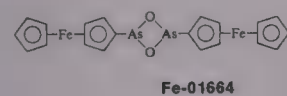
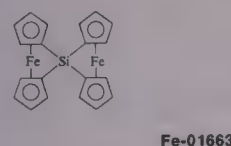
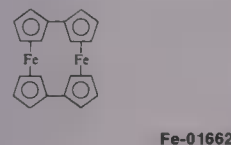
Fe-01653



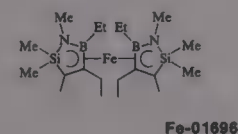
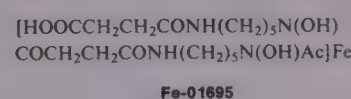
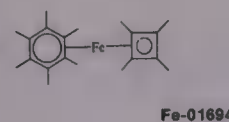
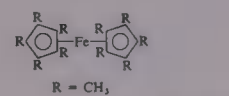
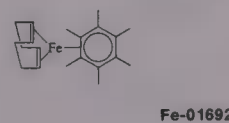
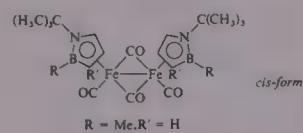
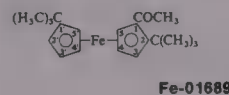
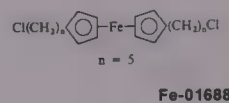
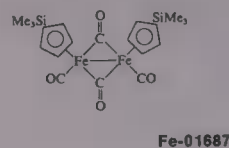
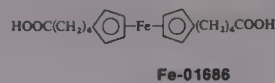
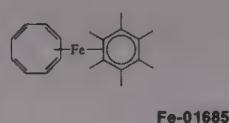
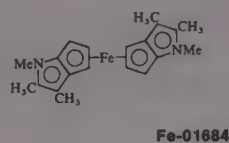
As Fe-01655 with
X = -CS

Fe-01656

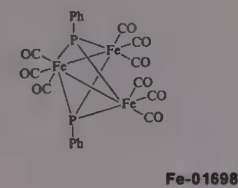
As Fe-00304 with
R = Ph

Fe-01661

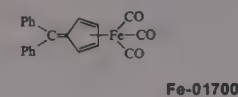
As Fe-01497 with
n = 6

Fe-01683

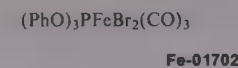
As Fe-00664 with
R = R' = Ph

Fe-01697

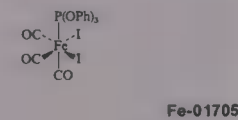
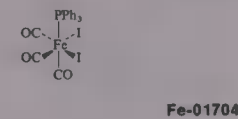
As Fe-00147 with
R = -COPh

Fe-01699

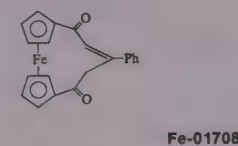
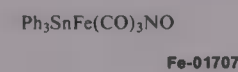
Ph₃PAuFe(CO)₃NO

Fe-01701

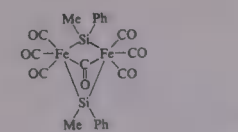
Ph₃GeFe(CO)₃NO

Fe-01703

Ph₃PbFe(CO)₃NO

Fe-01706

As Fe-01388 with
R = R' = Ph

Fe-01709



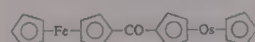
Fe-01711



Fe-01712



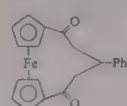
Fe-01713



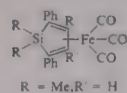
Fe-01714



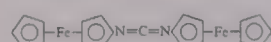
Fe-01715



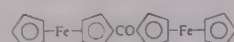
Fe-01716



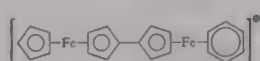
Fe-01717



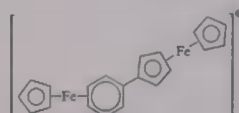
Fe-01718



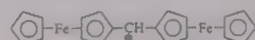
Fe-01719



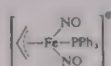
Fe-01720



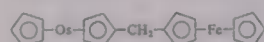
Fe-01721



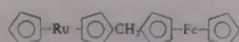
Fe-01722



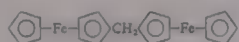
Fe-01723



Fe-01724



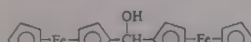
Fe-01725



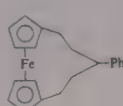
Fe-01726



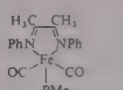
Fe-01727



Fe-01728



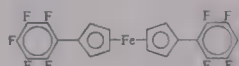
Fe-01729



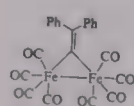
Fe-01730



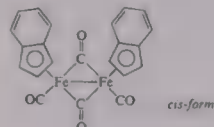
Fe-01731



Fe-01732



Fe-01733



Fe-01734



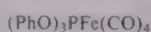
Fe-01735



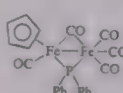
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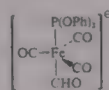
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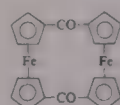
Fe-01738



Fe-01739



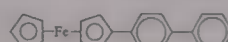
Fe-01740



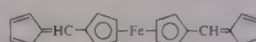
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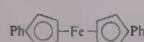
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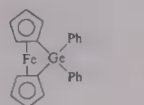
Fe-01743



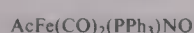
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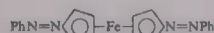
Fe-01745



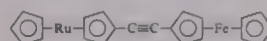
Fe-01748



Fe-01749



Fe-01750



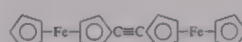
Fe-01751



Fe-01752



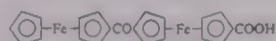
Fe-01753



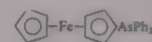
Fe-01754



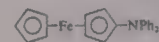
Fe-01755



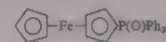
Fe-01756



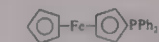
Fe-01757



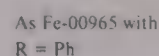
Fe-01758



Fe-01759



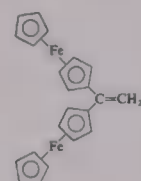
Fe-01760



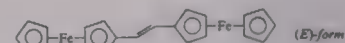
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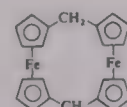
Fe-01762



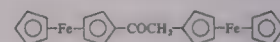
Fe-01763



Fe-01764



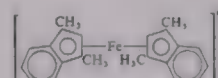
Fe-01765



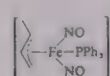
Fe-01766



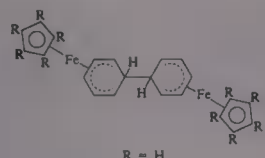
Fe-01767



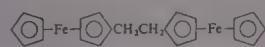
Fe-01768



Fe-01769



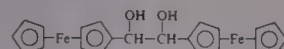
Fe-01770



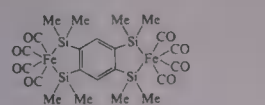
Fe-01771



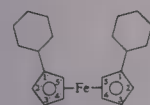
Fe-01772



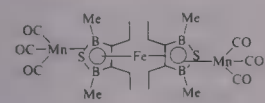
Fe-01773



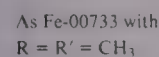
Fe-01774



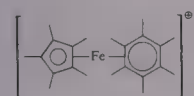
Fe-01775



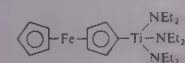
Fe-01776



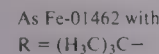
Fe-01777



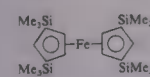
Fe-01778



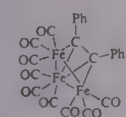
Fe-01779



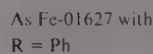
Fe-01780



Fe-01781



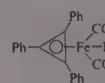
Fe-01782



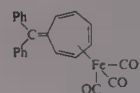
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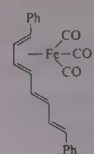
Fe-01784



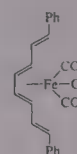
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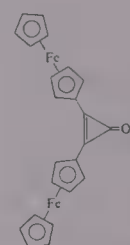
Fe-01786



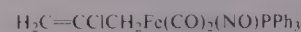
Fe-01787



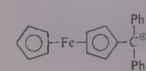
Fe-01788



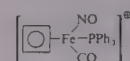
Fe-01789



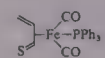
Fe-01790



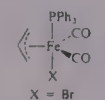
Fe-01791



Fe-01792



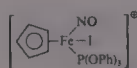
Fe-01793



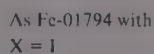
Fe-01794



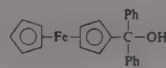
Fe-01795



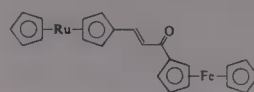
Fe-01796



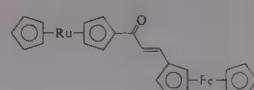
Fe-01797



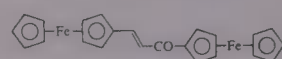
Fe-01798



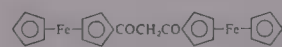
Fe-01799



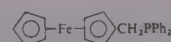
Fe-01800



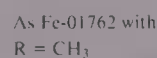
Fe-01801



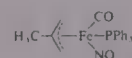
Fe-01802



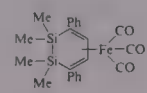
Fe-01803



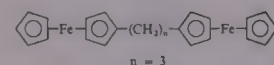
Fe-01804



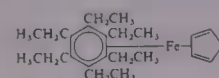
Fe-01805



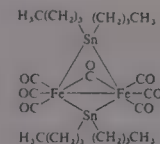
Fe-01806



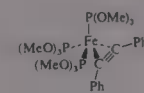
Fe-01807



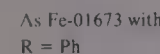
Fe-01808



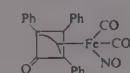
Fe-01809



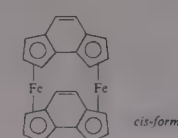
Fe-01810



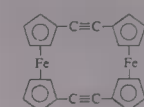
Fe-01811



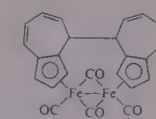
Fe-01812



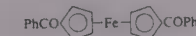
Fe-01813



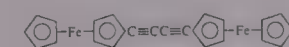
Fe-01814



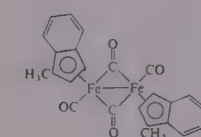
Fe-01815



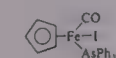
Fe-01816



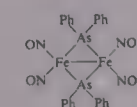
Fe-01817



Fe-01818



Fe-01819



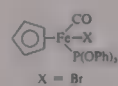
Fe-01820



Fe-01821



Fe-01822



Fe-01823

As Fe-01822 with
X = Cl

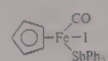
Fe-01824

As Fe-01823 with
X = Cl

Fe-01825

As Fe-01822 with
X = I

Fe-01826



Fe-01827

As Fe-01823 with
X = I

Fe-01828

As Fe-00037 with
R = Ph

Fe-01829



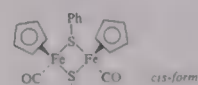
Fe-01830

As Fe-01232 with
R = Ph, n = 1

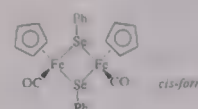
Fe-01831

As Fe-01232 with
R = Ph, n = 2

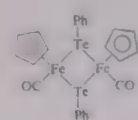
Fe-01832



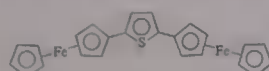
Fe-01833



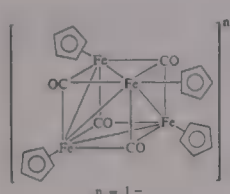
Fe-01834



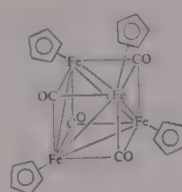
Fe-01835



Fe-01836



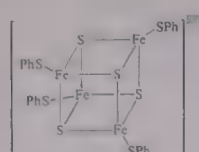
Fe-01837



Fe-01838

As Fe-01837 with
n = 1 +

Fe-01839



Fe-01840

As Fe-01822 with
X = H

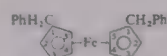
Fe-01841

As Fe-00128 with
X = PPh₃

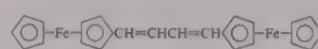
Fe-01842

As Fe-01823 with
X = H

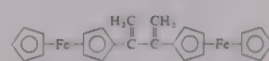
Fe-01843



Fe-01844



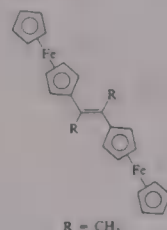
Fe-01846



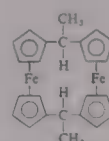
Fe-01847



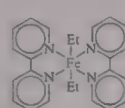
Fe-01848



Fe-01849



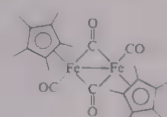
Fe-01850



Fe-01851

As Fe-01807 with
n = 4

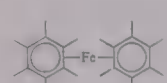
Fe-01852



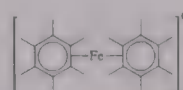
Fe-01853

As Fe-01688 with
n = 7

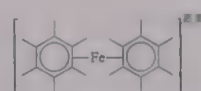
Fe-01854



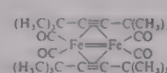
Fe-01855



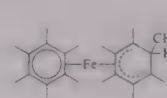
Fe-01856



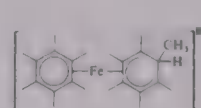
Fe-01857



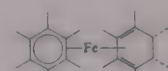
Fe-01858



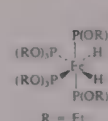
Fe-01859



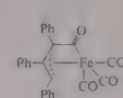
Fe-01860



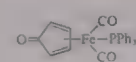
Fe-01861



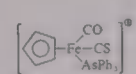
Fe-01862



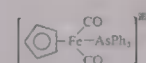
Fe-01863



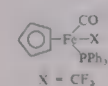
Fe-01864



Fe-01865



Fe-01866



Fe-01867

As Fe-00630 with
R = Ph

Fe-01868

As Fe-01867 with
X = CN

Fe-01869

As Fe-01867 with
X = -NCS

Fe-01870

As Fe-01867 with
X = -NCS

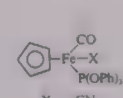
Fe-01871

As Fe-01867 with
X = -SeCN

Fe-01872

As Fe-01867 with
X = -NCO

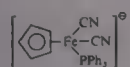
Fe-01873



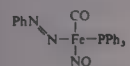
Fe-01874

As Fe-01874 with
X = -SeCN

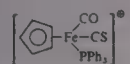
Fe-01875



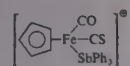
Fe-01876



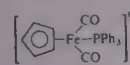
Fe-01877



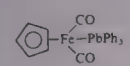
Fe-01878



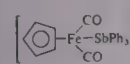
Fe-01879



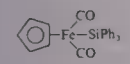
Fe-01880



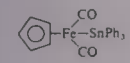
Fe-01881



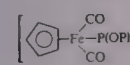
Fe-01882



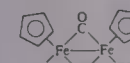
Fe-01883



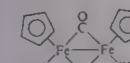
Fe-01884



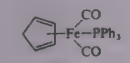
Fe-01885



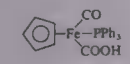
Fe-01886



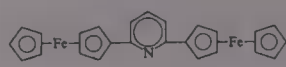
Fe-01887



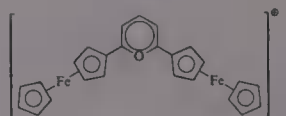
Fe-01888



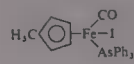
Fe-01889



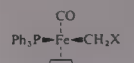
Fe-01890



Fe-01891



Fe-01892



Fe-01893

As Fe-00640 with
X = Br, R = OPh

Fe-01894

As Fe-01893 with
X = Cl

Fe-01895

As Fe-00640 with
X = Cl, R = OPh

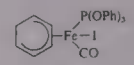
Fe-01896

As Fe-01893 with
X = I

Fe-01897

As Fe-00640 with
X = I, R = Ph

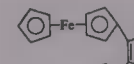
Fe-01898



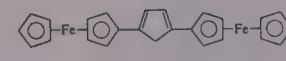
Fe-01899

As Fe-00640 with
X = I, R = OPh

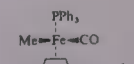
Fe-01900



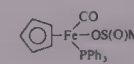
Fe-01901



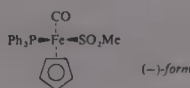
Fe-01902



Fe-01903



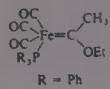
Fe-01904



Fe-01905

As Fe-01874 with
X = Me

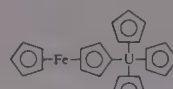
Fe-01906



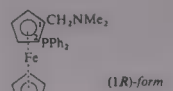
Fe-01907

As Fe-01907 with
R = OPh

Fe-01908



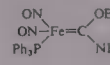
Fe-01909



Fe-01910

$[(C_5H_5)Fe(CO)_2](H_3CC_5H_4)_3Sm$

Fe-01911



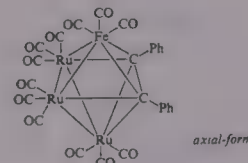
Fe-01912



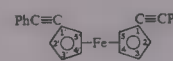
Fe-01913

$Fe[CNC(CH_3)_3]_5$

Fe-01914



Fe-01915



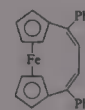
Fe-01916

As Fe-01417 with
R = Ph

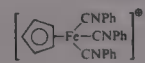
Fe-01917

As Fe-01867 with
X = $-COCF_3$

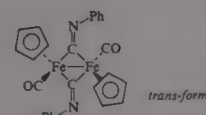
Fe-01918



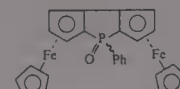
Fe-01919



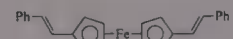
Fe-01920



Fe-01921



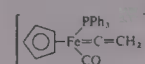
Fe-01922



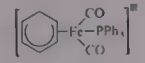
Fe-01923

As Fe-01822 with
X = $-CH_2CN$

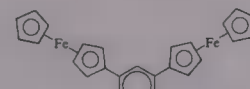
Fe-01924



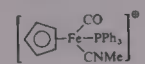
Fe-01925



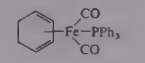
Fe-01926



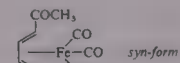
Fe-01927



Fe-01928



Fe-01929



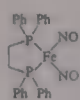
Fe-01930



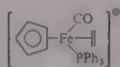
Fe-01931

As Fe-00786 with
R = Ph

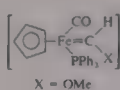
Fe-01932



Fe-01933



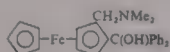
Fe-01934



Fe-01935

As Fe-01822 with
X = -CH₂OMe

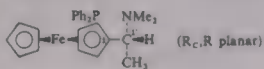
Fe-01936



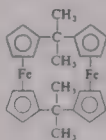
Fe-01937

As Fe-00321 with
X = PPh₃

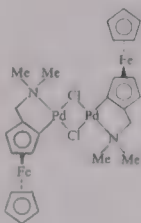
Fe-01938



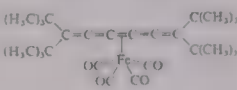
Fe-01939



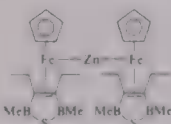
Fe-01940



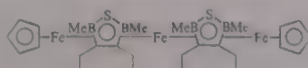
Fe-01941



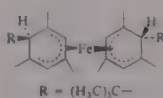
Fe-01942



Fe-01943



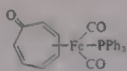
Fe-01944



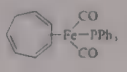
Fe-01945

PhC₆H₄Fe(CO)₂(PPh₃)NO

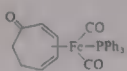
Fe-01946



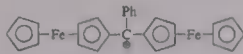
Fe-01947



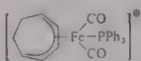
Fe-01948



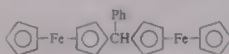
Fe-01949



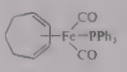
Fe-01950



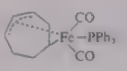
Fe-01951



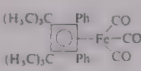
Fe-01952



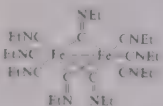
Fe-01953



Fe-01954



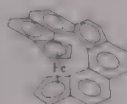
Fe-01955



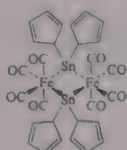
Fe-01956

As Fe-00465 with
R = -(CH₂)₃CH₃

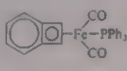
Fe-01957



Fe-01958



Fe-01959



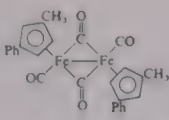
Fe-01960

As Fe-01096 with
R = GePh₃

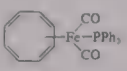
Fe-01961

As Fe-01409 with
R = CH₃Ph

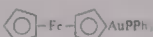
Fe-01962



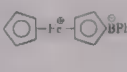
Fe-01963



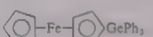
Fe-01964



Fe-01965



Fe-01966



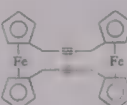
Fe-01967



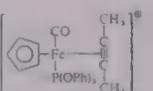
Fe-01968



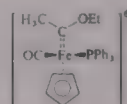
Fe-01969



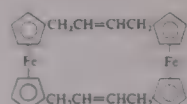
Fe-01970



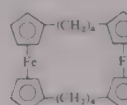
Fe-01971



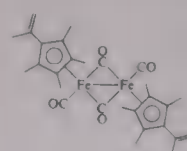
Fe-01972



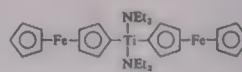
Fe-01973



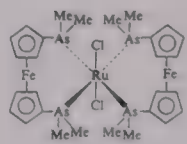
Fe-01974



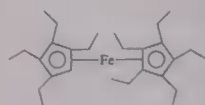
Fe-01975



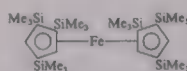
Fe-01976



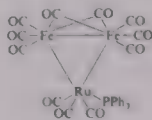
Fe-01977



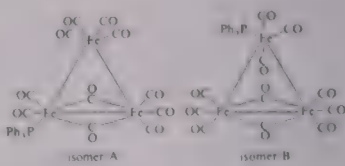
Fe-01978



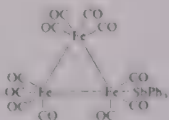
Fe-01979



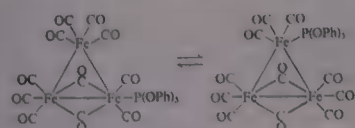
Fe-01980



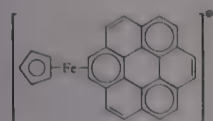
Fe-01981



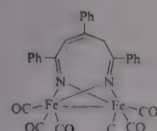
Fe-01982



Fe-01983



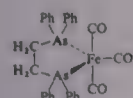
Fe-01984



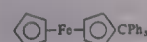
Fe-01985



Fe-01986



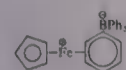
Fe-01987



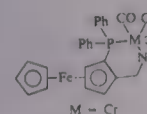
Fe-01988



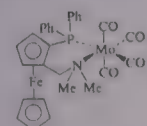
Fe-01989



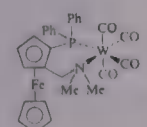
Fe-01990



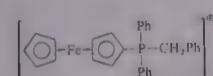
Fe-01991



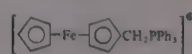
Fe-01992



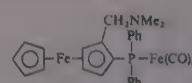
Fe-01993



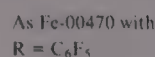
Fe-01994



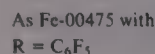
Fe-01995



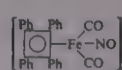
Fe-01996



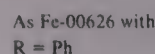
Fe-01997



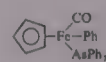
Fe-01998



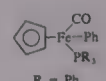
Fe-01999



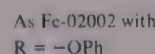
Fe-02000



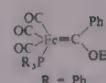
Fe-02001



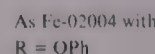
Fe-02002



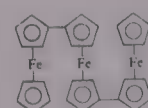
Fe-02003



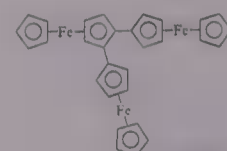
Fe-02004



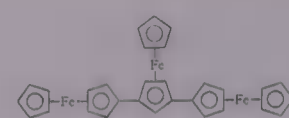
Fe-02005



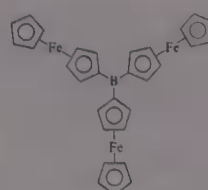
Fe-02006



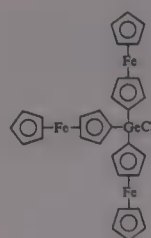
Fe-02007



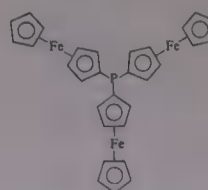
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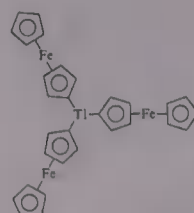
Fe-02009



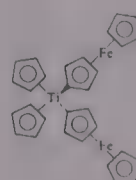
Fe-02010



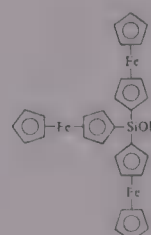
Fe-02011



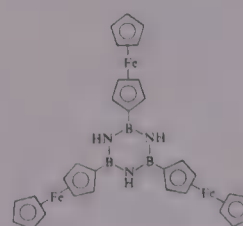
Fe-02012



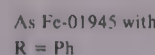
Fe-02013



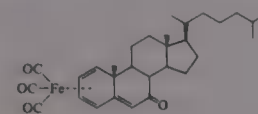
Fe-02014



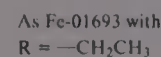
Fe-02015



Fe-02016



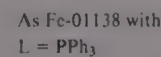
Fe-02017



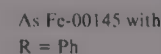
Fe-02023



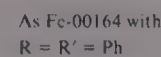
Fe-02024



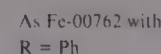
Fe-02025



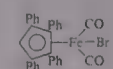
Fe-02026



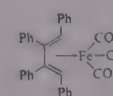
Fe-02027



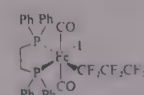
Fe-02028



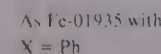
Fe-02029



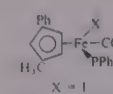
Fe-02030



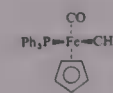
Fe-02031



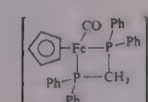
Fe-02032



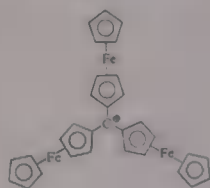
Fe-02033



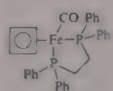
Fe-02034



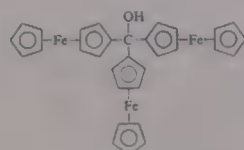
Fe-02035



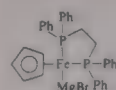
Fe-02036



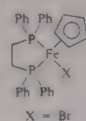
Fe-02037



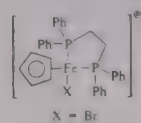
Fe-02038



Fe-02039



Fe-02040



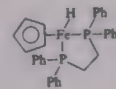
Fe-02041

As Fe-02040 with
X = Cl

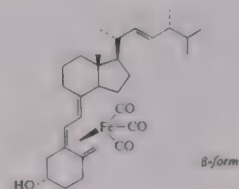
Fe-02042

As Fe-02041 with
X = Cl

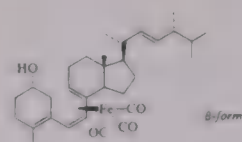
Fe-02043



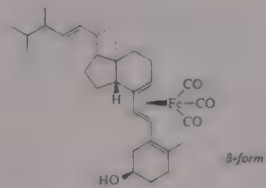
Fe-02044



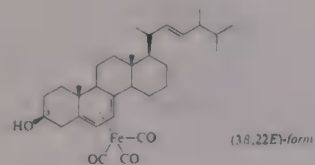
Fe-02045



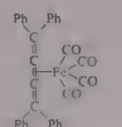
Fe-02046



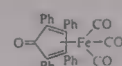
Fe-02047



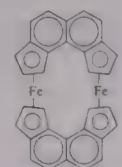
Fe-02048



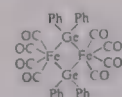
Fe-02049



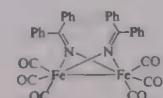
Fe-02050



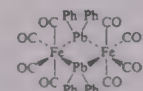
Fe-02051



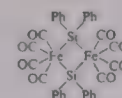
Fe-02052



Fe-02053



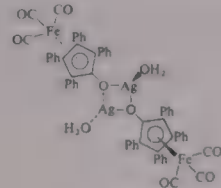
Fe-02054



Fe-02055

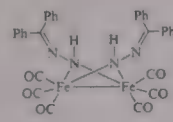
As Fe-00917 with
R = Ph

Fe-02056

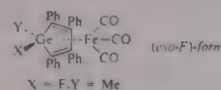


Dimeric Ag salt dihydrate

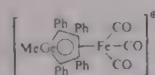
Fe-02057



Fe-02058



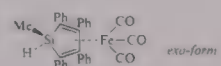
Fe-02059



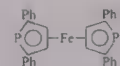
Fe-02060

As Fe-02059 with
X = H, Y = Me

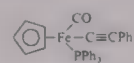
Fe-02061



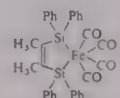
Fe-02062



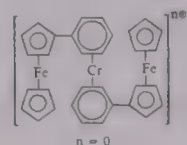
Fe-02063



Fe-02064



Fe-02065



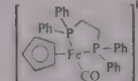
Fe-02066

As Fe-02066 with
n = 1

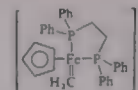
Fe-02067

As Fe-02033 with
X = Me

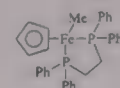
Fe-02068



Fe-02069



Fe-02070



Fe-02071

As Fe-01691 with
R = Ph, R' = CH₃

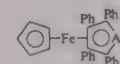
Fe-02072

As Fe-01770 with
R = CH₃

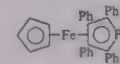
Fe-02073

Fe₅(CO)₁₄C(PPh₃)

Fe-02074



Fe-02075



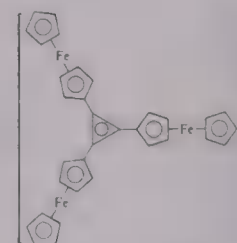
Fe-02076

As Fe-02059 with
X = Y = Me

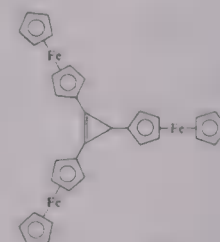
Fe-02077

As Fe-01717 with
R = Me, R' = Ph

Fe-02078



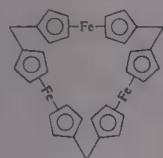
Fe-02079



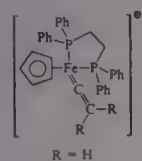
Fe-02080

As Fe-02033 with
X = Ac

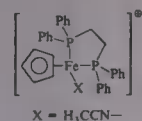
Fe-02081



Fe-02082



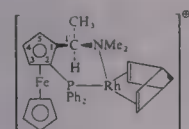
Fe-02083



Fe-02084

As Fe-02084 with
X = -CH₂OMe

Fe-02085



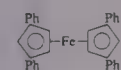
Fe-02086

As Fe-00481 with
R = Ph

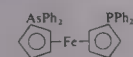
Fe-02087

As Fe-00482 with
R = Ph

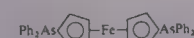
Fe-02088



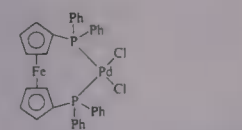
Fe-02089



Fe-02090



Fe-02091



Fe-02092



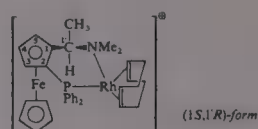
Fe-02093

As Fe-01849 with
R = Ph

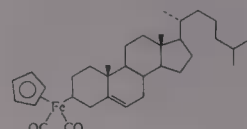
Fe-02094

As Fe-02084 with
X = -C≡CCH₃

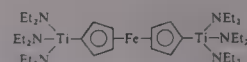
Fe-02095



Fe-02096



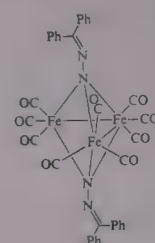
Fe-02097



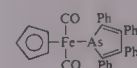
Fe-02098

As Fe-01318 with
R = Ph

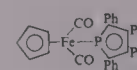
Fe-02099



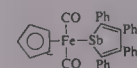
Fe-02100



Fe-02101



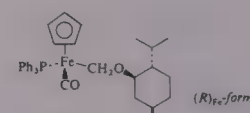
Fe-02102



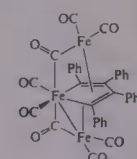
Fe-02103

As Fe-02083 with
R = CH₃

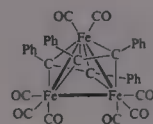
Fe-02104



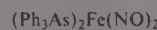
Fe-02105



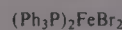
Fe-02106



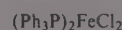
Fe-02107



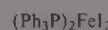
Fe-02108



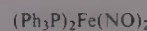
Fe-02109



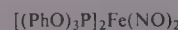
Fe-02110



Fe-02111



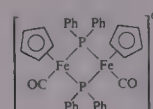
Fe-02112



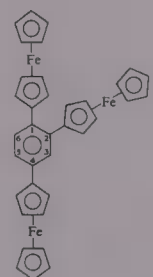
Fe-02113

As Fe-01451 with
R = Ph

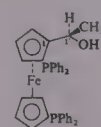
Fe-02114



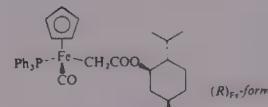
Fe-02115



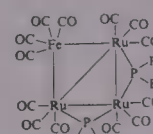
Fe-02116



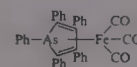
Fe-02118



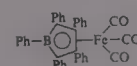
Fe-02119



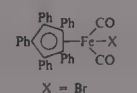
Fe-02120



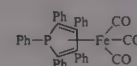
Fe-02121



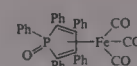
Fe-02122



Fe-02123



Fe-02124



Fe-02125

As Fe-02123 with
X = H

Fe-02126



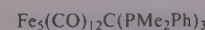
Fe-02127



Fe-02128



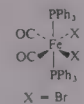
Fe-02129



Fe-02130



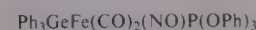
Fe-02131



Fe-02132

As Fe-02132 with
X = Cl

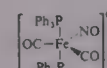
Fe-02133



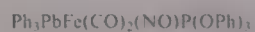
Fe-02134



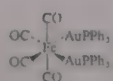
Fe-02135



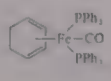
Fe-02136



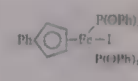
Fe-02137



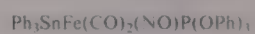
Fe-02151



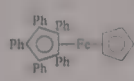
Fe-02165



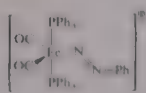
Fe-02179



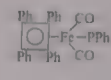
Fe-02138



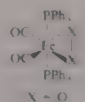
Fe-02152



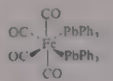
Fe-02166



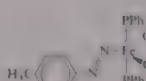
Fe-02180



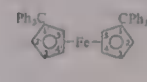
Fe-02139



Fe-02153



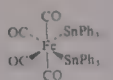
Fe-02167



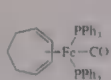
Fe-02181



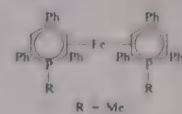
Fe-02140



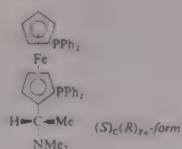
Fe-02154



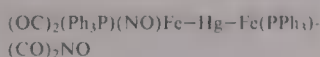
Fe-02168



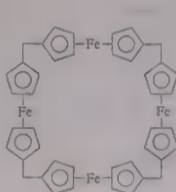
Fe-02182



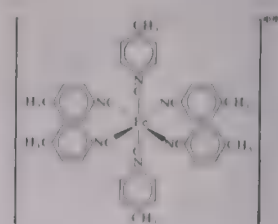
Fe-02141



Fe-02155



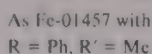
Fe-02169



Fe-02183



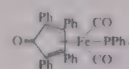
Fe-02142



Fe-02156



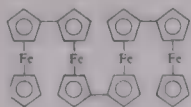
Fe-02170



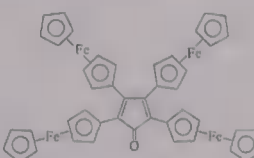
Fe-02184



Fe-02143



Fe-02157



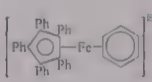
Fe-02171



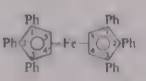
Fe-02185



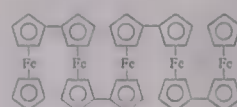
Fe-02144



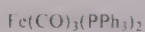
Fe-02158



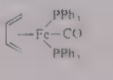
Fe-02172



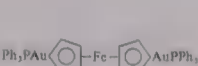
Fe-02186



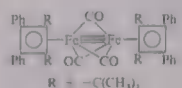
Fe-02145



Fe-02159



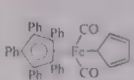
Fe-02174



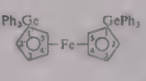
Fe-02187



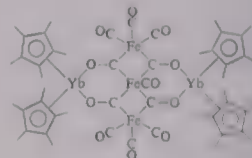
Fe-02146



Fe-02160



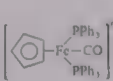
Fe-02175



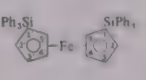
Fe-02188



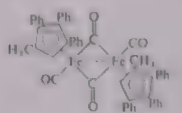
Fe-02147



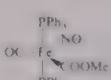
Fe-02161



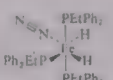
Fe-02176



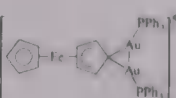
Fe-02189



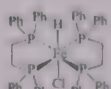
Fe-02148



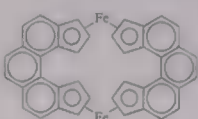
Fe-02162



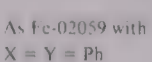
Fe-02177



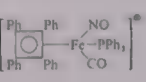
Fe-02190



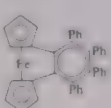
Fe-02149



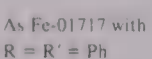
Fe-02163



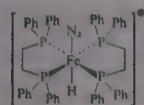
Fe-02178



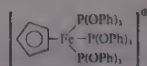
Fe-02150



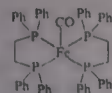
Fe-02164



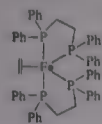
Fe-02191



Fe-02199



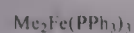
Fe-02192



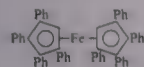
Fe-02193

As Fe-00793 with
R = Ph

Fe-02194



Fe-02195



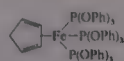
Fe-02196

As Fe-02182 with
R = Ph

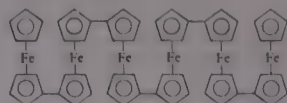
Fe-02197

As Fe-02187 with
R = Ph

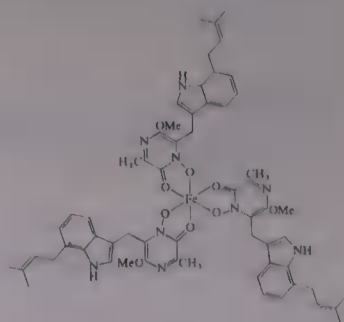
Fe-02198



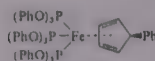
Fe-02200



Fe-02201



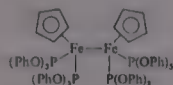
Fe-02202



Fe-02203

As Fe-01862 with
R = Ph

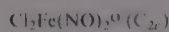
Fe-02204



Fe-02205



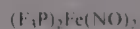
Fe-02206



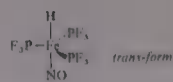
Fe-02207

As Fe-00002 with
X = Cl

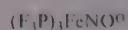
Fe-02208



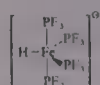
Fe-02209



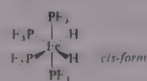
Fe-02210



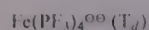
Fe-02211



Fe-02212



Fe-02213



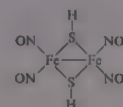
Fe-02214



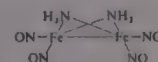
Fe-02215



Fe-02216



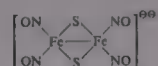
Fe-02217



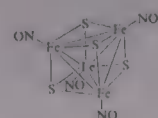
Fe-02218

As Fe-00002 with
X = I

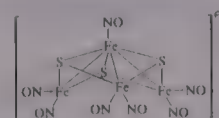
Fe-02219



Fe-02220



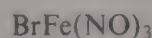
Fe-02221



Fe-02222

BrFeN₃O₃
Bromotrinitrosyliron

Fe-00001



M 225.769

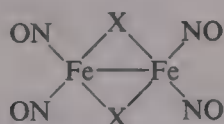
Long black needles. Mp 115° subl.

Hieber, W. *et al*, *Z. Naturforsch., B*, 1958, **13**, 194.Jahn, A., *Z. Anorg. Allg. Chem.*, 1959, **301**, 301 (*ir*)**Br₂Fe₂N₄O₄**

Fe-00002

Di-μ-bromotetranitrosyldiiron, 9Cl

[15696-30-7]



X = Br

M 391.526

Black cryst. Bp_{1.0} 90° subl.*Monomer: Bromodinitrosyliron.*BrFeN₂O₂ M 195.763

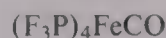
Unknown.

Soling, H. *et al*, *Acta Chem. Scand.*, 1957, **11**, 1534 (*synth*)Beck, W. *et al*, *Chem. Ber.*, 1965, **98**, 2657 (*ir*)Jones, R.F., *Diss. Abstr. Int. B*, 1972, **33**, 2516 (*use*)Birchall, T. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 2521 (*ir*, *mössbauer*)**CF₁₂FeOP₄**

Fe-00003

Carbonyltetrakis(phosphorous trifluoride-P)iron, 9Cl

[16388-45-7]



M 435.733

Pale-yellow liq. somewhat unstable towards H₂O and O₂. Sol. cyclohexane, C₆H₆, fluorocarbons, attacked rapidly by EtOH, Me₂CO. Mp –20°. Stereochemically non-rigid.Clark, R.J. *et al*, *Inorg. Chem.*, 1964, **3**, 1395 (*synth*)Tripathi, J.B.P. *et al*, *J. Organomet. Chem.*, 1967, **9**, 307 (*synth*, *ir*)Clark, R.J. *et al*, *Acc. Chem. Res.*, 1973, **6**, 246 (*rev*)Mahnke, H. *et al*, *J. Chem. Phys.*, 1974, **60**, 2997 (*cmr*, *ir*)Sheline, R.K. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1975, **14**, 314 (*ir*, *nmr*)Sheline, R.K. *et al*, *New Synth. Methods*, 1975, **3**, 219 (*ir*, *nmr*, *synth*)Head, R.A. *et al*, *J. Organomet. Chem.*, 1978, **145**, 75 (*pe*)**C₂Cl₂FeO₂**

Fe-00004

Dicarbonyldichloroiron*Iron dicarbonyl dichloride*

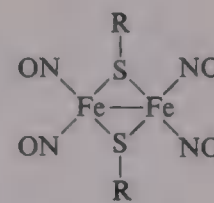
M 182.774

Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1940, **245**, 35 (*synth*)**C₂F₆Fe₂N₄O₄S₂**

Fe-00005

Tetranitrosylbis(trifluoromethanethiolato)diiron, 9Cl

[51059-38-2]

R = CF₃

M 433.851

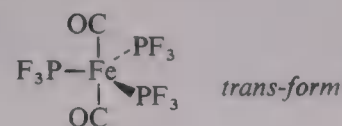
Solid. Mp 51°. Sublimes.

Davidson, J.L. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1957 (*synth*, *ir*, *nmr*)**C₂F₉FeO₂P₃**

Fe-00006

Dicarbonyltris(phosphorous trifluoride)iron

[17594-26-2]



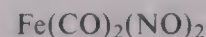
M 375.775

Exists as mixt. of 3 rapidly equilibrating isomers (*cis*, *trans*, and *vic*-forms). V. volatile yellow liq., unstable towards air and water. Sol. cyclohexane, C₆H₆, attacked rapidly by Me₂CO, EtOH. Immisc. H₂O. Most volatile component of series (CO)_{5-n}Fe(PF₃)_n.Clark, R.J. *et al*, *Inorg. Chem.*, 1964, **3**, 1395 (*synth*)Haas, H. *et al*, *J. Chem. Phys.*, 1967, **47**, 2996 (*ir*)Udovich, C.A. *et al*, *Inorg. Chem.*, 1969, **8**, 1066 (*stereochem*)Clark, R.J. *et al*, *Acc. Chem. Res.*, 1973, **6**, 246 (*rev*)Sheline, R.K. *et al*, *New Synth. Methods*, 1975, **3**, 219 (*ir*, *nmr*)Mahnke, H. *et al*, *J. Chem. Phys.*, 1977, **66**, 4822 (*cmr*, *ir*)Head, R.A. *et al*, *J. Organomet. Chem.*, 1978, **145**, 75 (*pe*)**C₂FeN₂O₄**

Fe-00007

Dicarbonyldinitrosyliron, 9Cl, 8Cl

[13682-74-1]

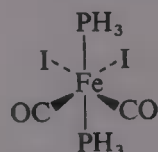


M 171.880

Deep-red cryst., unstable to air. Somewhat unstable above 0°. Sol. org. solvs., insol. H₂O. Mp 18.5°. Subl. easily.Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1932, **208**, 238 (*synth*)Brockway, L.O. *et al*, *Trans. Farad. Soc.*, 1937, **33**, 1233 (*struct*)McBride, D.W. *et al*, *Inorg. Chem.*, 1962, **1**, 386 (*synth*)*Organomet. Synth.*, 1965, **1**, 167 (*synth*)Bramley, R. *et al*, *J. Chem. Soc. (A)*, 1967, 861 (*cmr*)Poletti, A. *et al*, *Inorg. Chim. Acta*, 1968, **2**, 157 (*ir*)Mossbaek, H. *et al*, *Acta Chem. Scand., Ser. A*, 1974, **28**, 157 (*mössbauer*)Paliani, G. *et al*, *Can. J. Spectrosc.*, 1976, **21**, 159 (*ir*)Chen, H.W. *et al*, *Inorg. Chem.*, 1979, **18**, 2548 (*synth*, *pe*)Jenny, T. *et al*, *J. Organomet. Chem.*, 1981, **205**, 211 (*nmr*)

C₂H₆FeI₂O₂P₂**Dicarbonyldiiodobis(phosphine)iron, 9Cl**

[29845-14-5]



M 433.672

cis-form [35260-83-4]Opaque brown cryst. (CH₂Cl₂).Bigorgne, M. *et al*, *J. Organomet. Chem.*, 1970, **23**, 201 (*synth, spectra*)Birck, J.L. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1971, **273**, 880 (*cryst struct*)**C₂H₆Fe₂N₄O₄S₂****Bis(μ-methanethiolato)tetranitrosyldiiron, 10Cl***Bis(μ-methylthio)tetranitrosyldiiron. Roussin's red methyl ester. Roussin's red*

[16071-96-8]

As Tetranitrosylbis(trifluoromethanethiolato)diiron, Fe-00005 with

R = Me

M 325.908

Isol. from pickled vegetables. Reacts with secondary amines to give nitrosamines known to be carcinogenic. Fine red-brown or red-black needles (MeOH). Mp 92-3° (88-9°).

▷ Carcinogenic

Beck, W. *et al*, *Chem. Ber.*, 1981, **114**, 3184 (*synth, ir, pmr*)
Li, M.-H. *et al*, *CA*, 1981, **94**, 25956, 133390, 186612 (*isol, tox*)
Seyferth, D. *et al*, *J. Organomet. Chem.*, 1981, **218**, C5 (*synth, ir*)**C₃BrFeHgNO₄****(Bromomercurio)tricarbonylnitrosyliron, 8Cl**

[28375-80-6]

BrHgFe(CO)₃NO

M 450.378

Orange cryst. (C₆H₆/hexane). Mp 99° dec.Casey, M. *et al*, *J. Chem. Soc. (A)*, 1970, 2258 (*synth, ir*)**C₃ClFeHgNO₄****Tricarbonyl(chloromercurio)nitrosyliron, 8Cl**

[28407-13-8]

ClHgFe(CO)₃NO

M 405.927

Unstable, characterised spectroscopically.

Casey, M. *et al*, *J. Chem. Soc. (A)*, 1970, 2258 (*synth, ir*)**C₃Cl₃FeGeNO₄****Tricarbonylnitrosyl(trichlorogermyl)iron, 8Cl**

[31275-37-3]

Cl₃GeFe(CO)₃NO

M 348.833

Yellow cryst. (pentane). Dec. at 71°.

Casey, M. *et al*, *J. Chem. Soc. (A)*, 1971, 256 (*synth, ir*)

Fe-00008

C₃Cl₃FeNO₄Sn**Tricarbonylnitrosyl(trichlorostannyl)iron, 8Cl**

[27776-74-5]

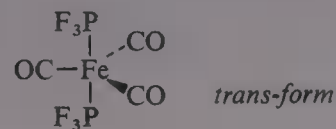
Cl₃SnFe(CO)₃NO

M 394.933

Yellow cryst. (pentane). Mp 101° dec.

Casey, M. *et al*, *J. Chem. Soc. (A)*, 1971, 256 (*synth, ir*)**C₃F₆FeO₃P₂****Tricarbonylbis(phosphorous trifluoride)iron, 10Cl***Tricarbonylbis(trifluorophosphine)iron*

[53275-22-2]



M 315.816

Exists as a mixt. of 3 rapidly equilibrating isomers. V. volatile yellow liq. Stable in hydrocarbon solvs., rapidly attacked by alcohols, Me₂CO, immisc. H₂O.Clark, R.J. *et al*, *Inorg. Chem.*, 1964, **3**, 1395 (*synth, ir*)Ogilvie, F. *et al*, *Inorg. Chem.*, 1969, **8**, 1904 (*nmr*)Clark, R.J. *et al*, *Acc. Chem. Res.*, 1973, **6**, 246 (*rev*)Mahnke, H. *et al*, *J. Chem. Phys.*, 1974, **60**, 2997; 1977, **66**, 4822 (*ir, cmr*)Head, R.A. *et al*, *J. Organomet. Chem.*, 1978, **145**, 75 (*pe*)**C₃FeHgINO₄****Tricarbonyl(iodomercurio)nitrosyliron, 8Cl**

[28375-81-7]

IHgFe(CO)₃NO

M 497.379

Orange cryst. (C₆H₆/hexane). Mp 91°.Casey, M. *et al*, *J. Chem. Soc. (A)*, 1970, 2258 (*synth, ir*)

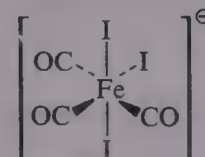
Fe-00013

Fe-00014

Fe-00015

Fe-00016

Fe-00017

C₃FeI₃O₃[⊖]**Tricarbonyltriiodoferrate(1-), 9Cl, 8Cl**

M 520.592 (ion)

Tetraethylammonium salt: [20528-31-8].C₁₁H₂₀FeI₃NO₃ M 650.844

Deep-crimson cryst. Mp 100° dec.

Chalmers, A.A. *et al*, *J. Chem. Soc. (A)*, 1968, 1013 (*synth, ir*)Pankowski, M. *et al*, *J. Organomet. Chem.*, 1977, **125**, 231 (*synth, ir*)**C₃FeNO₄[⊖]****Tricarbonylnitrosylferrate(1-), 9Cl, 8Cl**

[15020-24-3]

(OC)₃FeNO[⊖]

M 169.884 (ion)

Starting material for Fe(CO)_x(NO) complexes.*Na salt*: [25875-18-7].

C₃FeNNaO₄ M 192.874

Air-sensitive yellow cryst. Hygroscopic. Forms yellow needles of addn. compd. (1:1) with 1,4-dioxan.

K salt: [25875-19-8].C₃FeKNO₄ M 208.983Bright yellow-orange cryst. (Et₂O/xylene).*Tl(1+) salt*:C₃FeNO₄Tl M 374.267Yellow. Sol. CH₂Cl₂. Predominantly ionic.*Tetramethylammonium salt*:C₇H₁₂FeN₂O₄ M 244.030Yellow needles (Me₂CO aq.).Beck, W., *Chem. Ber.*, 1961, **94**, 1214 (*synth*)Hieber, W. *et al.*, *Z. Naturforsch., B*, 1962, **17**, 211 (*uv*)Hieber, W. *et al.*, *Z. Anorg. Allg. Chem.*, 1963, **320**, 101 (*synth*)Santucci, A. *et al.*, *J. Mol. Struct.*, 1970, **5**, 49 (*ir*)Casey, M. *et al.*, *J. Chem. Soc. (A)*, 1971, 256 (*synth, ir*)Stevens, R.E. *et al.*, *J. Am. Chem. Soc.*, 1981, **103**, 4981 (*synth*)C₃FeN₂O₃^{⊖⊖}

Fe-00018

Dicarbonyl(cyano-C)nitrosylferrate(2-), 9Cl

(OC)₂Fe(CN)(NO)^{⊖⊖}

M 167.892 (ion)

Di-K salt: [59060-85-4].C₃FeK₂N₂O₃ M 246.088

Orange.

Bis(tetraphenylphosphonium) salt: [59390-34-0].C₅₁H₄₀FeN₂O₃P₂ M 846.683

Brown cryst.

Nast, R. *et al.*, *Z. Anorg. Allg. Chem.*, 1976, **421**, 15 (*synth, ir*)C₃FeN₃O₂^{⊖⊖⊖}

Fe-00019

Carbonylbis(cyano-C)nitrosylferrate(3-), 9Cl

Fe(CN)₂(CO)(NO)^{⊖⊖⊖}

M 165.899 (ion)

Struct. not determined.

Tri-K salt: [59060-86-5].C₃FeK₃N₃O₂ M 283.194

Orange.

Nast, R. *et al.*, *Z. Anorg. Allg. Chem.*, 1976, **421**, 15 (*synth, ir*)C₃HFeNO₄

Fe-00020

Hydridotricarbonylnitrosyliron

*Tricarbonylnitrosyliron hydride*HFe(CO)₃NO

M 170.892

Orange cryst. Disproportionates > -45°. Numerous salts of the anion tricarbonylnitrosylferrate(1-) are known and stable.

▷ Dec. explosively on warming.

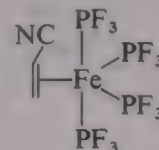
Hg deriv.: see Hexacarbonyl(mercury)dinitrosyldiiron, Fe-00096*Anion*: see Tricarbonylnitrosylferrate(1-), Fe-00017Hieber, W. *et al.*, *Z. Naturforsch., B*, 1960, **15**, 323.Hieber, W. *et al.*, *Chem. Ber.*, 1963, **96**, 1659 (*anion*)Hieber, W. *et al.*, *Z. Anorg. Allg. Chem.*, 1963, **320**, 101.Beck, W. *et al.*, *J. Organomet. Chem.*, 1967, **10**, 307 (*ir*)Santucci, A. *et al.*, *J. Mol. Struct.*, 1970, **5**, 49 (*ir, anion*)Mosbaek, H. *et al.*, *Acta Chem. Scand., Ser. A*, 1974, **28**, 157.C₃H₃F₁₂FeNP₄

Fe-00021

Tetrakis(phosphorous trifluoride)liron, 9Cl

Acrylonitrileiron-tetrakis(trifluorophosphine)

[51205-56-2]



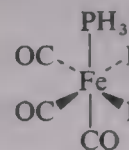
M 460.786

Yellow cryst. Mp 45-6°. Bp_{0.001} 30° subl.Kruck, T.H. *et al.*, *Chem. Ber.*, 1974, **71**, 271 (*synth, pmr, ir, ms*)C₃H₃FeI₂O₃P

Fe-00022

Tricarbonyldiiodo(phosphine)iron, 10Cl, 8Cl

[30003-60-2]



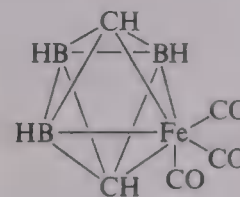
M 427.685

Cryst. (CH₂Cl₂).Bigorgne, M. *et al.*, *J. Organomet. Chem.*, 1970, **23**, 201 (*synth, ir*)C₃H₅B₃FeO₃

Fe-00023

Tricarbonyl[η⁴-pentahydrodicarbapentaborato(2-)]iron, 10Cl(1,2,4-C₂B₃H₅)tricarbonyliron

[53363-10-3]



M 177.348

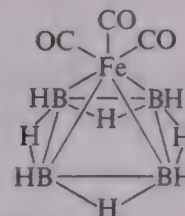
Orange liq.

Miller, V.R. *et al.*, *J. Am. Chem. Soc.*, 1974, **96**, 3090 (*synth, ms, ir, nmr, pmr*)Ulman, J.A. *et al.*, *J. Am. Chem. Soc.*, 1978, **100**, 456 (*pe*)C₃H₈B₄FeO₃

Fe-00024

Tricarbonyl[(1,2,3,4-η)-tetraborane(8)]iron, 10Cl

[54748-47-9]



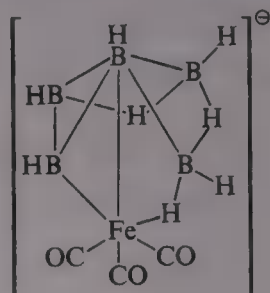
M 191.181

Orange liq. Mp ca. 5°.

Greenwood, N.N. *et al.*, *J. Chem. Soc., Chem. Commun.*, 1974, 718 (*synth, nmr, pmr, ms, ir*)Salahub, D.R., *J. Chem. Soc., Chem. Commun.*, 1978, 385 (*pe*)

C₃H₈B₅FeO₃[−]

Fe-00025

Tricarbonyl[(1,2,5-η)-octahydripentaborato(3-)-H²]fer-
rate(1-), 10Cl

M 201.991 (ion)

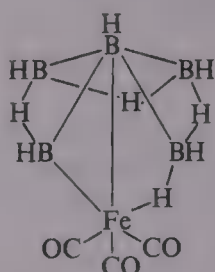
Tetrabutylammonium salt: [61491-75-6].

C₁₉H₄₄B₅FeNO₃ M 444.459

No phys. props. reported.

Fehlner, T.P. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 7085.C₃H₉B₅FeO₃

Fe-00026

Tricarbonyl[nonahydripentaborate(2-)]iron, 10Cl
[61403-41-6]

M 202.999

Fluxional. Deep-red mobile liq.

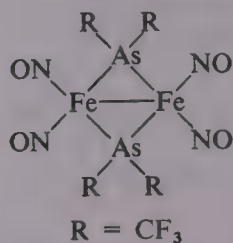
▷Extremely pyrophoric

Fehlner, T.P. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 7085 (*synth*,
nmr, *ms*, *pmr*, *cmr*)Ulman, J.A. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 456 (*pe*)Shore, S.G. *et al*, *Inorg. Chem.*, 1979, **18**, 670 (*synth*, *ms*, *pmr*,
cmr, *nmr*)C₄As₂F₁₂Fe₂N₄O₄

Fe-00027

Bis[μ-[bis(trifluoromethyl)arsino]]tetranitrosyldiiron

Bis-μ-[bis(trifluoromethyl)arsenido]tetranitrosyldiiron

R = CF₃

M 657.586

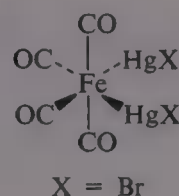
Volatile red-black cubic cryst. Mp 120-5° dec. Bp_{0.2} 60°
subl.Cullen, W.R. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 1030 (*synth*,
ir, *nmr*)C₄Br₂FeHg₂O₄

Fe-00028

Bis(bromomercurio)tetracarbonyliron, 8Cl

Bis(bromomercury)tetracarbonyliron, 10Cl

[15281-78-4]



X = Br

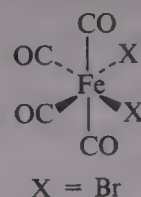
M 728.877

*cis-form*Colourless needles or yellow solid (MeOH). Poorly sol.
all solvs. Mp ca. 170° dec.Hock, H. *et al*, *Ber. B.*, 1929, **62**, 431 (*synth*)Baird, H.W. *et al*, *J. Organomet. Chem.*, 1967, **7**, 503 (*cryst*
struct)Bradford, C.W. *et al*, *J. Chem. Soc. (A)*, 1968, 2456 (*synth*, *ir*,
raman)C₄Br₂FeO₄

Fe-00029

Dibromotetracarbonyliron, 9Cl, 8Cl

[18475-84-8]



X = Br

M 327.697

*cis-form*Red-brown light-sensitive needles (pet. ether). Bp₁₋₅
40-5° subl. Dec. by H₂O.Hieber, W. *et al*, *Ber.*, 1928, **61B**, 1717 (*synth*)Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1930, **190**, 193 (*uv*)Hieber, W. *et al*, *Angew. Chem.*, 1956, **68**, 679 (*props*)Taylor, R.C. *et al*, *Inorg. Chem.*, 1964, **3**, 584 (*synth*, *ir*)Cohen, I.A. *et al*, *J. Inorg. Nucl. Chem.*, 1966, **28**, 511 (*synth*)Johnson, B.F.G. *et al*, *J. Chem. Soc. (A)*, 1968, 1043 (*ir*)Butler, I.S. *et al*, *J. Organomet. Chem.*, 1969, **18**, 145 (*ir*)Bancroft, G.M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 2103
(*mössbauer*)Vancea, L. *et al*, *J. Organomet. Chem.*, 1977, **134**, 219 (*cmr*)C₄Cl₂FeHg₂O₄

Fe-00030

Tetracarbonylbis(chloromercury)iron, 9Cl

[15281-84-2]

As Bis(bromomercurio)tetracarbonyliron, Fe-00028 with

X = Cl

M 639.975

*cis-form*Pale-yellow solid (Me₂CO). V. spar. sol. most org. solvs.,
sol. DMSO. Mp 155-60° dec.Hock, H. *et al*, *Chem. Ber.*, 1928, **61**, 2097; 1929, **62**, 2690
(*synth*)Lewis, J. *et al*, *J. Chem. Soc. (A)*, 1966, 69 (*synth*, *ir*)Raston, C.L. *et al*, *Aust. J. Chem.*, 1976, **29**, 1905 (*cryst struct*)C₄Cl₂FeO₄

Fe-00031

Tetracarbonyldichloroiron, 9Cl, 8Cl

[21475-90-1]

As Dibromotetracarbonyliron, Fe-00029 with

X = Cl

M 238.795

cis-form

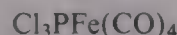
V. unstable, light-sensitive yellow powder. Dec. on attempted subl.

- Hieber, W. *et al*, *Ber. B.*, 1928, **61**, 1717 (*synth*)
 Noack, K., *Helv. Chim. Acta*, 1962, **45**, 1847 (*ir*)
 Bennett, M.A. *et al*, *J. Chem. Soc.*, 1964, 5560 (*synth*)
 Taylor, R.C. *et al*, *Inorg. Chem.*, 1964, **3**, 584 (*synth, ir*)
 Lewis, J. *et al*, *Acc. Chem. Res.*, 1968, **1**, 245 (*ms*)
 Bancroft, G.M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 2163 (*mössbauer*)

C₄Cl₃FeO₄P

Fe-00032

Tetracarbonyl(phosphorous trichloride)iron, 8Cl
 [16388-48-0]



M 305.221

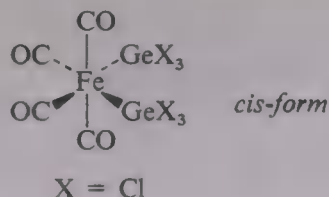
Characterised spectroscopically.

Tripathi, J.B.P. *et al*, *J. Organomet. Chem.*, 1967, **9**, 307 (*synth, ir*)

C₄Cl₆FeGe₂O₄

Fe-00033

Tetracarbonylbis(trichlorogermyl)iron, 8Cl



M 525.787

cis-form [19601-38-8]

More stable isomer. Yellow cryst. Sol. nonpolar solvs.
 Bp_{0.02} 40-50° subl. (part dec.). Readily hydrol. by moist air.

trans-form [19601-39-9]

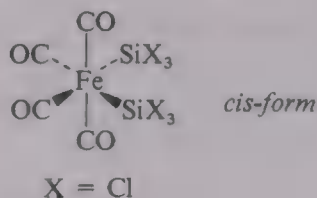
White cryst. or large v. pale yellow octahedral cryst.
 Spar. sol. nonpolar solvs. Isom. rapidly in soln. to *cis*-form. Readily hydrol. by moist air.

Kummer, R. *et al*, *Inorg. Chem.*, 1968, **7**, 1208 (*synth, ir*)

C₄Cl₆FeO₄Si₂

Fe-00034

Tetracarbonylbis(trichlorosilyl)iron, 8Cl



M 436.778

cis-form [29660-80-8]

Yellow cryst. (hexane at -80°). Mp 94-6°.

trans-form [19632-60-1]

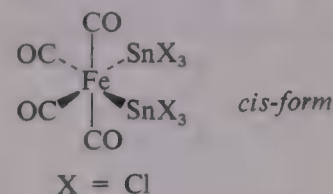
No phys. props. recorded. Compound reported as *trans*-form is probably (OC)₄Fe(SiCl₃)H.

- Jetz, W. *et al*, *J. Am. Chem. Soc.*, 1967, **89**, 2773 (*synth, ir*)
 Kahn, O. *et al*, *J. Organomet. Chem.*, 1967, **10**, 137 (*synth, ir*)
 Vancea, L. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 1407 (*cmr*)

C₄Cl₆FeO₄Sn₂

Fe-00035

Tetracarbonylbis(trichlorostannyl)iron, 8Cl



M 617.987

cis-form [19601-41-3]

Yellow-orange cryst. (pentane at -80°). Readily hydrol. by moist air.

trans-form [19601-42-4]

Large yellow cryst. (pet. ether). V. sol. CH₂Cl₂, cyclohexane. Isom. to *cis*-form after 1 hr. in CH₂Cl₂. Readily hydrol. by moist air.

- Kummer, R. *et al*, *Inorg. Chem.*, 1968, **7**, 1208 (*synth*)
 Pomeroy, R.K. *et al*, *Inorg. Chem.*, 1977, **16**, 1508 (*nmr, stereochem*)

C₄F₃FeO₄P

Fe-00036

Tetracarbonyl(phosphorous trifluoride)iron, 9Cl
 [16388-47-9]



M 255.858

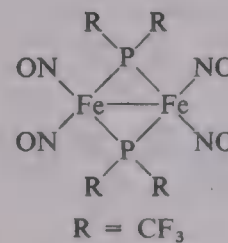
Stereochemically nonrigid. Yellow air- and moisture-sensitive liq. Stable in hydrocarbon solvs. attacked rapidly by Me₂CO and EtOH. Immisc. H₂O.

- Clark, R.J. *et al*, *Inorg. Chem.*, 1964, **3**, 1395 (*synth*)
 Bigorgne, M. *et al*, *Rev. Chim. Miner.*, 1966, **3**, 831 (*ir, raman*)
 Haas, H. *et al*, *J. Chem. Phys.*, 1967, **47**, 2996 (*ir*)
 Udovich, C.A. *et al*, *Inorg. Chem.*, 1969, **8**, 1066 (*stereochem, nmr*)
 Mahnke, H. *et al*, *J. Chem. Phys.*, 1974, **60**, 2997 (*ir, cmr*)
 Sheline, R.K. *et al*, *New Synth. Methods*, 1975, **3**, 219 (*synth, ir, nmr*)
Inorg. Synth., 1976, **16**, 63 (*synth*)
 Head, R.A. *et al*, *J. Organomet. Chem.*, 1978, **145**, 75 (*pe*)

C₄F₁₂Fe₂N₄O₄P₂

Fe-00037

Bis[μ-[bis(trifluoromethyl)phosphine]]tetranitrosyldiiron, 9Cl
 [36486-27-8]



M 569.691

Red-black lustrous cryst. Mp 124°. Bp 50° subl. *in vacuo*.

- Dobbie, R.C. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 1030 (*synth, ir, nmr*)
 Clegg, W., *Inorg. Chem.*, 1976, **15**, 2928 (*struct*)

C₄FeHgO₄

Fe-00038

Tetracarbonylmercurioiron, 8Cl

[24980-89-0]



M 368.479

Polymeric. Small orange-yellow cryst. Sol. Me₂CO, EtOH, Et₂O, Py, PhNO₂.

Hock, H. *et al*, *Ber.*, 1929, **62**, 431 (*synth, props*)

Beck, W. *et al*, *J. Organomet. Chem.*, 1967, **10**, 307 (*ir*)

Takano, T. *et al*, *Bull. Chem. Soc. Jpn.*, 1971, **44**, 431 (*ir, mössbauer*)

C₄FeI₂O₄

Fe-00039

Tetracarbonyldiiodoiron, 9Cl

Diiodotetracarbonyliron. Tetracarbonyliron diiodide

[14878-30-9]



M 421.698

cis-form [14911-55-8]

Red-black cryst. *trans*-form also known.

trans-form [15616-56-5]

Hieber, W. *et al*, *Ber.*, 1928, **61**, 1717.

Baraclough, C.C. *et al*, *J. Chem. Soc.*, 1961, 2582 (*ir*)

Noack, K., *Helv. Chim. Acta*, 1962, **45**, 1847 (*ir*)

Lewis, J. *et al*, *Acc. Chem. Res.*, 1968, **1**, 245 (*ms*)

Panowski, M. *et al*, *J. Organomet. Chem.*, 1969, **19**, 393 (*synth, ir*)

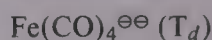
Vancea, L. *et al*, *J. Organomet. Chem.*, 1977, **134**, 219 (*cmr*)

C₄FeO₄^{⊖⊖}

Fe-00040

Tetracarbonylferrate(2-), 9Cl, 8Cl

[22321-35-3]



M 167.889 (ion)

Used in org. synth. as a transition metal analogue of Grignard reagents. pK_a 14.

Di-Na salt: [14878-31-0].

C₄FeNa₂O₄ M 213.868

Usually generated and used *in situ*. Orange cryst. (MeOH/THF). Forms cryst. dioxan adduct.

Di-K salt: [16182-63-1].

C₄FeK₂O₄ M 246.085

Cryst. (MeOH/THF).

Edgel, W.F. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 1254 (*ir*)

Stammreich, H. *et al*, *J. Chem. Phys.*, 1960, **32**, 1482 (*raman*)

Greatrex, R. *et al*, *J. Chem. Soc. (A)*, 1969, 2339 (*ir, mössbauer*)

Collman, J.P., *Acc. Chem. Res.*, 1975, **8**, 342 (*rev*)

Baerends, E.J. *et al*, *Mol. Phys.*, 1975, **30**, 1735 (*uv, ir, raman*)

Collman, J.P. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 1104, 2515 (*synth, cryst struct*)

Ernst, R.D. *et al*, *Inorg. Chem.*, 1978, **17**, 1477 (*synth, derivs*)

Pensak, D.A. *et al*, *Inorg. Chem.*, 1979, **18**, 3407 (*struct*)

Cymbaluk, T.H. *et al*, *Inorg. Chem.*, 1980, **19**, 2381 (*synth*)

Org. Synth., 1980, **59**, 102 (*synth, use*)

Bowen, P. *et al*, *J. Chem. Soc., Chem. Commun.*, 1981, 679 (*synth*)

Fieser, M. *et al*, *Reagents for Organic Synthesis*, Wiley, 1967-83, **8**, 216 (*use*)

Inorg. Synth., **7**, 197 (*synth*)

C₄FeO₄Zn

Fe-00041

Tetracarbonyl(zinc)iron, 9Cl

Tetracarbonylzincioiron, 8Cl

[32458-92-7]



M 233.269

Prepd. in aq. soln. and not isol.

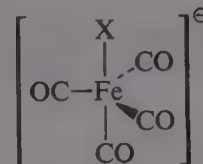
Galembeck, F. *et al*, *J. Am. Chem. Soc.*, 1971, **93**, 1909 (*synth*)

C₄HFeO₄[⊖]

Fe-00042

Tetracarbonylhydroferrate(1-), 9Cl, 8Cl

[18716-80-8]



X = H

M 168.897 (ion)

Used in org. reductions; Na⁺ and K⁺ derivs. usually prepd. and used *in situ* without isol.

Na salt: [53558-55-7].

C₄HFeNaO₄ M 191.886

Obt. quantitatively in THF from Na₂Fe(CO)₄ with 1 equiv. AcOH. White solid. Forms 1:1 solvate with MeOH and EtOH.

Tetramethylammonium salt: [63814-56-2].

C₈H₁₃FeNO₄ M 243.042

Light-pink cryst. Mod. air-sensitive.

Bis(triphenylphosphine)iminium salt: [56791-54-9].

C₄₀H₃₁FeNO₄P₂ M 707.484

V. pale-yellow plates (EtOH/EtOAc).

Methyltriphenylphosphonium salt:

C₂₃H₁₉FeO₄P M 446.221

Pale-yellow cryst. (butanol). Mp 90°.

Edgell, W.F. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 1254 (*ir*)

Stammreich, H. *et al*, *J. Chem. Phys.*, 1960, **32**, 1482 (*raman*)

Smith, M.B. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 2388 (*cryst struct*)

Mitsudo, T. *et al*, *Chem. Lett.*, 1974, 1358 (*pmr*)

Siegl, W.O. *et al*, *J. Organomet. Chem.*, 1975, **92**, 321 (*synth*)

Pettit, R. *et al*, *Tetrahedron Lett.*, 1977, 781 (*synth, bibl*)

Collman, J.P. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 1119 (*synth, bibl*)

Pensak, D.A. *et al*, *Inorg. Chem.*, 1979, **18**, 3407 (*struct*)

Sósinsky, B.A. *et al*, *Inorg. Chem.*, 1982, **21**, 4229 (*mössbauer*)

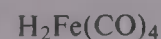
C₄H₂FeO₄

Fe-00043

Tetracarbonyldihydroiron, 9Cl

Tetracarbonyliron dihydride

[12002-28-7]



M 169.904

Stereochemically nonrigid.

cis-form [22763-20-8]

White cryst. melting to a colourless, mobile liq. Mp -70°. pK_{a1} 6.8, pK_{a2} 15. Dec. at -10°. Acidic; forms insol. stable salts with large cations.

Hieber, W. *et al*, *Z. Electrochem.*, 1953, **57**, 235.

Piper, T.S. *et al*, *J. Inorg. Nucl. Chem.*, 1956, **3**, 104 (*pmr*)

Farmery, K. *et al*, *J. Chem. Soc. (A)*, 1970, 634 (*synth, ir*)

Stobart, S.R., *J. Chem. Soc., Dalton Trans.*, 1972, 2442 (*synth, ir, raman*)

McNeill, E.A. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 6243 (*struct*)

Vancea, L. *et al*, *J. Organomet. Chem.*, 1977, **134**, 219 (*synth, cmr*)

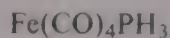
Gmelin's Handbuch der Anorg. Chem., 1978, **B2**, 7 (*bibl*)

C₄H₃FeO₄P

Fe-00044

Tetracarbonyl(phosphine)iron, 8Cl

[18116-52-4]



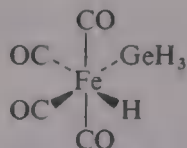
M 201.886

Light-yellow needles (pentane). Mp 36°. V. sensitive to oxygen and light.

Fischer, E.O. *et al*, *Chem. Ber.*, 1969, **102**, 2547 (*synth*, *ir*, *pmr*)
Bigorgne, M. *et al*, *J. Organomet. Chem.*, 1970, **23**, 201 (*raman*, *ir*)

Tetracarbonylgermylhydroiron, 9Cl

[61139-16-0]



M 244.510

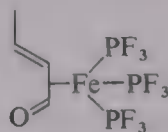
Colourless volatile liq. Mp ca. –30°. V.p. 3.5 mm at 22°. Monomeric. Dec. in 3 days at r.t. in a sealed tube.

Stobart, S.R., *J. Chem. Soc., Dalton Trans.*, 1972, 2442 (*synth*, *ir*, *pmr*)Gerlach, R.F. *et al*, *J. Organomet. Chem.*, 1976, **118**, C23 (*synth*)

Fe-00046

[(*O*,1,2,3- η)-2-Butenal]tris(phosphorous trifluoride)iron, 9Cl
(*Crotonaldehyde*)tris(phosphorus trifluoride)iron

[51205-81-3]



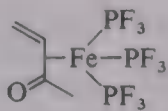
M 389.845

Orange liq. Mp ca. 15°. Bp_{0.001} ca. 25°.Kruck, T.H. *et al*, *Chem. Ber.*, 1973, **106**, 3578 (*synth*, *ir*, *pmr*, *ms*)

Fe-00047

[(*O*,2,3,4- η)-3-Buten-2-one]tris(phosphorous trifluoride)iron, 9Cl(*Methyl vinyl ketone*)irontris(phosphorous trifluoride)

[51205-82-4]



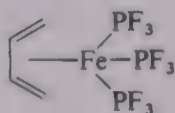
M 389.845

Yellow liq. Mp ca. –20°. Bp_{0.001} ca. 25°. Dec. at 60°.Kruck, T.H. *et al*, *Chem. Ber.*, 1973, **106**, 3578 (*synth*, *ir*, *pmr*, *ms*)

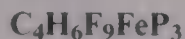
Fe-00048

(η^4 -1,3-Butadiene)tris(phosphorous trifluoride)iron, 9Cl

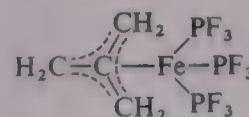
[52993-22-3]



M 373.845

Yellow solid. Mp 118–9°. ¹⁹F nmr spectra show time-averaged equivalence of PF₃ groups. Subl. at r.t. *in vacuo*.Warren, J.D. *et al*, *Inorg. Chem.*, 1970, **9**, 373 (*synth*, *nmr*, *pmr*, *ir*)Kruck, Th. *et al*, *Chem. Ber.*, 1973, **106**, 697 (*synth*, *ir*, *pmr*, *ms*)

Fe-00049

(η^4 -2-Methylene-1,3-propanediyl)tris(phosphorous trifluoride)iron, 9Cl
(*Trimethylenemethane*)irontris(phosphorus trifluoride)
[36119-58-1]

M 373.845

Light-yellow low-melting solid.

Clark, R.J. *et al*, *J. Organomet. Chem.*, 1972, **35**, C33 (*synth*, *pmr*, *nmr*)

Fe-00050

Tetracarbonyldigermyliron, 8Cl

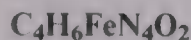
As Tetracarbonylbis(trichlorogermyl)iron, Fe-00033 with

X = H

M 319.116

cis-form [33248-48-5]

Colourless volatile solid. Mp 71°.

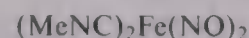
Stobart, S.R., *Inorg. Nucl. Chem. Lett.*, 1971, **7**, 219 (*synth*, *ir*, *pmr*)

Fe-00051

Bis(isocyanomethane)dinitrosyliron

*Bis(methyl isocyanide)*dinitrosyliron, 8Cl

[31392-54-8]



M 197.964

Red-brown needles (Et₂O/pet. ether). Sl. sol. Et₂O, Me₂CO, EtOH, C₆H₆, sol. pet. ether. Dec. at 150–200°. Stable to water.Hieber, W. *et al*, *Chem. Ber.*, 1956, **89**, 610 (*synth*)Becker, W.D. *et al*, *Z. Naturforsch., B*, 1970, **25**, 1332 (*nmr*)

Fe-00052

Tetracarbonyldisilyliron, 10Cl, 8Cl

[26469-80-7]

As Tetracarbonylbis(trichlorosilyl)iron, Fe-00034 with

X = H

M 230.107

cis-form [14465-62-4]

White solid, readily sublimed at r.t. Mp 52°. Turns pale-yellow at 85°, dec. above 110°.

Explodes violently in air

Aylett, B.J. *et al*, *J. Chem. Soc. (A)*, 1969, **14**, 2110 (*synth*, *ir*, *pmr*)Bancroft, G.M. *et al*, *Discuss. Faraday Soc.*, 1969, 136 (*mössbauer*)Aylett, B.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1977, 2058.

C₄H₉FeN₂O₆P**Fe-00053****Carbonyldinitrosyl(trimethyl phosphite-*P*)iron**

Carbonyldinitrosyl(phosphorous acid)iron trimethyl ester, 8Cl

[21494-31-5]



M 267.946

No phys. props. recorded.

DiStefano, G. *et al*, *J. Organomet. Chem.*, 1967, **7**, 473; 1968, **14**, 165, 465 (*synth*, *ms*)Innorta, G. *et al*, *Int. J. Mass. Spectrom. Ion. Phys.*, 1968, **1**, 435.**C₄H₁₀Fe₂N₄O₄S₂****Fe-00054****Bis(μ-ethanethiolato)tetranitrosyldiiron**

Diethyltetranitrosyldi-μ-thioxodiiron, 10Cl. Roussin's red ethyl ester, 10Cl

[15696-36-3]

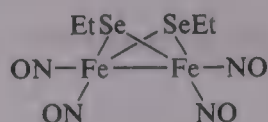
As Tetranitrosylbis(trifluoromethanethiolato)diiron, Fe-00005 with



M 353.961

Exists as a mixt. of *syn*- and *anti*-isomers in soln. Red-black plates (EtOH). Mp 78.5-80°.Pavel, O. *Ber.*, 1882, **15**, 2600 (*synth*)Hoffmann, K.A. *et al*, *Z. Anorg. Chem.*, 1895, **9**, 295 (*synth*)Manchot, W. *et al*, *Chem. Ber.*, 1926, **59**, 412 (*uv*)Manchot, W. *et al*, *Chem. Ber.*, 1927, **60**, 2318 (*synth*)Thomas, J.T. *et al*, *Acta Crystallogr.*, 1958, **11**, 599 (*struct*)Seyferth, D. *et al*, *J. Organomet. Chem.*, 1981, **218**, C5 (*ir*)**C₄H₁₀Fe₂N₄O₄Se₂****Fe-00055****Bis(μ-ethaneselenolato)tetranitrosyldiiron, 8Cl**

[15025-89-5]



M 447.761

Dark-blue metallic cryst. (EtOH). Mp 97°.

Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1960, **350**, 274 (*synth*)Beck, W. *et al*, *Chem. Ber.*, 1966, **99**, 3721 (*ir*)**C₄H₁₁B₇FeO₄****Fe-00056****Tetracarbonyl(η²-heptaborane(11))iron, 9Cl**

[54190-57-7]

M 254.646

Structure unknown but see derived anion, Tetracarbonyl[η²-dodecahydroheptaborato(1-)]ferrate(1-), Fe-00058. Mp ~20°.Hollander, O. *et al*, *J. Chem. Soc., Chem. Commun.*, 1974, 604 (*synth*, *nmr*, *ms*)**C₄H₁₂As₂Fe₂N₄O₄****Fe-00057****Bis[μ-(dimethylarsino)]tetranitrosyldiiron**

Di-μ-(dimethylarsenido)bis[dinitrosyliron]

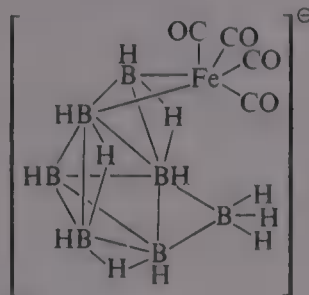
[77673-80-4]

As Bis[μ-[bis(trifluoromethyl)arsino]]tetranitrosyldiiron, Fe-00027 with



M 441.700

Dark-red cryst. (hexane). Mp 227-30°.

Hayter, R.G. *et al*, *Inorg. Chem.*, 1964, **3**, 717 (*synth*, *ir*, *pmr*)**C₄H₁₂B₇FeO₄[⊖]****Fe-00058****Tetracarbonyl[η²-dodecahydroheptaborato(1-)]ferrate(1-), 9Cl**

M 255.653 (ion)

Tetrabutylammonium salt: [54083-17-9].

C₂₀H₄₈B₇FeNO₄ M 498.121Deep-amber cryst. (CH₂Cl₂/pentane).Hollander, O. *et al*, *J. Chem. Soc., Chem. Commun.*, 1974, 604 (*synth*, *struct*)Mangion, M. *et al*, *Inorg. Chem.*, 1977, **16**, 2110 (*struct*)**C₄H₁₂Fe₂N₄O₄P₂****Fe-00059****Bis[μ-(dimethylphosphino)]tetranitrosyldiiron, 10Cl**

Di-μ-(dimethylphosphido)bis(dinitrosyliron)

[63105-24-8]

As Bis[μ-[bis(trifluoromethyl)phosphine]]-tetranitrosyldiiron, Fe-00037 with



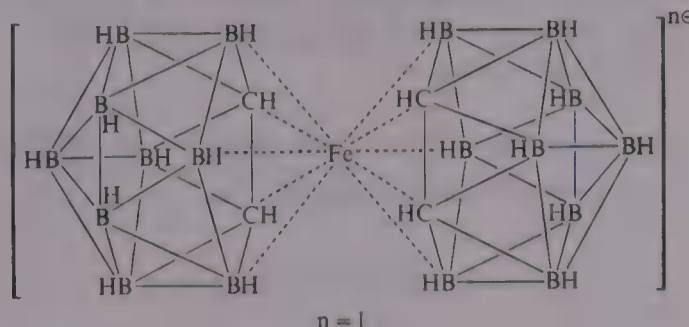
M 353.805

Dark-red cryst. (methylcyclohexane). Mp 201-3°.

Hayter, R.G. *et al*, *Inorg. Chem.*, 1964, **3**, 717 (*synth*, *ir*, *pmr*)Keller, E. *et al*, *Chem. Ber.*, 1979, **112**, 1626 (*struct*)**C₄H₂₂B₁₈Fe[⊖]****Fe-00060****Bis[(7,8,9,10,11-η)-undecahydro-7,8-dicarbaundecaborato(2-)]ferrate(1-)**

Bis-π-(3)-1,2-Dicarballyliron(1-)

[65465-56-7]



n = 1

M 320.645 (ion)

Paramagnetic.

Cs salt: [12304-97-1].

C₄H₂₂B₁₈CsFe M 453.550Black cryst. (H₂O).

Tetramethylammonium salt: [12304-95-9].

C₈H₃₄B₁₈FeN M 394.790Red plates (Me₂CO aq.). Mp > 300°.*Inorg. Synth.*, 1967, **10**, 91 (*synth*)Hawthorne, M.F. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 879 (*synth*, *ir*, *uv*, *nmr*)*Inorg. Synth.*, 1970, **10**, 111 (*synth*)

Birchall, T. *et al*, *Inorg. Chem.*, 1971, **10**, 399 (mössbauer)
 Wiersema, R.J. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 761 (cmr, nmr)
 Ammeter, J.H., *J. Magn. Reson.*, 1978, **30**, 299 (esr)

C₄H₂₂B₁₈Fe^{⊖⊖}

Fe-00061

Bis[(7,8,9,10,11-η)-undecahydro-7,8-dicarbaundecaborato(2-)]ferrate(2-)

Bis-π-(3)-1,2-dicarballyliron(2-)

[51868-94-1]

As Bis[(7,8,9,10,11-η)-undecahydro-7,8-dicarbaundecaborato(2-)]ferrate(1-), Fe-00060 with

n = 2

M 320.645 (ion)

Diamagnetic.

Bis(tetramethylammonium) salt:

C₁₂H₄₆B₁₈FeN₂ M 468.936

Deep-pink cryst. (Me₂CO/toluene).

Hawthorne, M.F. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 879 (synth, ir, pmr, nmr, uv)

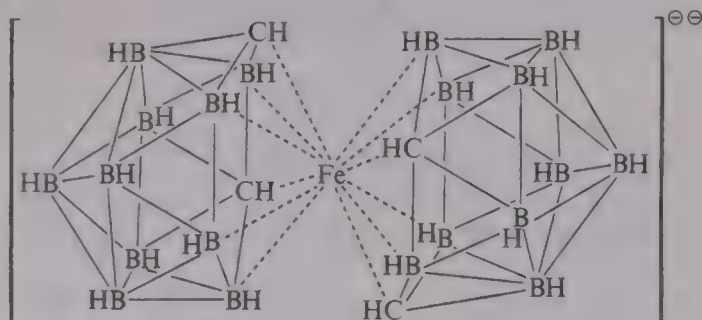
C₄H₂₄B₂₀Fe^{⊖⊖}

Fe-00062

Bis[(7,8,9,10,11,12-η)-dodecahydro-7,9-dicarbododecaborato(2-)]ferrate(2-), 9Cl

Bis(π-B₁₀C₂H₁₂)ferrate(2-)

[55073-27-3]



M 344.281 (ion)

Bis(tetraethylammonium) salt: [40904-18-5].

C₂₀H₆₄B₂₀FeN₂ M 604.786

Purple cryst. (Me₂CO/EtOH). Mp >240° dec.

Dustin, D.F. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 1109 (synth, polarog, pmr, nmr, ir, uv)

C₅F₅FeIO₃

Fe-00063

Tetracarbonyliodo(trifluoromethyl)iron, 10Cl

[75917-59-8]

F₃CFel(CO)₄

M 363.799

Orange-red moisture-sensitive cryst. Mp 91-4°. Bp_{0.1} 35° subl. May be a mixt. of *cis* and *trans* isomers.

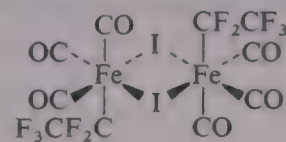
Manuel, T.A. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 249, 3604 (synth, nmr, ir)

Stanley, K. *et al*, *Can. J. Chem.*, 1976, **54**, 1700 (ir)

C₅F₅FeIO₃

Fe-00064

Tricarbonyliodo(pentafluoroethyl)iron



M 385.797

Bridged dimer.

Dimer: Hexacarbonyldi-

μ-iodobis(pentafluoroethyl)diiron.

C₁₀F₁₀Fe₂I₂O₆ M 771.593

Orange-red cryst. Mp 110-2° dec. Bp_{0.1} 90° subl.

King, R.B. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 3604 (synth, nmr, ir)

Pitcher, E. *et al*, *Spectrochim. Acta*, 1962, **18**, 585 (ir)

C₅FeNO₄[⊖]

Fe-00065

Tetracarbonyl(cyano-C)ferrate(1-), 9Cl

As Tetracarbonylhydroferrate(1-), Fe-00042 with

X = -CN

M 193.906 (ion)

Tl(I+) salt: [55886-19-6].

C₅FeNO₄Tl M 398.289

Yellow cryst. (CH₂Cl₂/hexane). Mp 150° dec.

Bis(triphenylphosphine)iminium salt: [22043-91-0].

C₄₁H₃₀FeN₂O₄P₂ M 732.494

Mp 132-4°.

Ruff, J.K. *et al*, *Inorg. Chem.*, 1969, **8**, 86 (synth, ir)

Goldfield, S.A. *et al*, *Inorg. Chem.*, 1974, **13**, 770 (cryst struct)

Pedersen, S.E. *et al*, *Inorg. Chem.*, 1975, **14**, 2365 (synth, ir)

Darensbourg, M.Y. *et al*, *Inorg. Chem.*, 1979, **18**, 3286 (ir)

C₅FeN₆O^{⊖⊖}

Fe-00066

Pentakis(cyano-C)nitrosylferrate(2-), 9Cl

[15078-28-1]

Fe(CN)₅NO^{⊖⊖}

M 215.942 (ion)

Di-Na salt: [13755-38-9]. Sodium nitroferricyanide. Sodium nitroprusside.

C₅FeN₆Na₂O M 261.921

Antihypertensive drug. Reagent for detection of many organic compds. Ruby red cryst. + 2H₂O.

▷LJ8925000.

Malin, J.M. *et al*, *Inorg. Chem.*, 1975, **14**, 2924 (nmr, cmr)

Castellano, E.E. *et al*, *Acta Crystallogr., Sect. B*, 1977, **33**, 1725, 1728 (cryst struct)

Mohai, B. *et al*, *Acta Chim. Acad. Sci. Hung.*, 1977, **92**, 271 (synth)

Rucki, R., *Anal. Profiles Drug Subst.*, 1977, **6**, 487 (rev)

Long, J.C. *et al*, *J. Inorg. Nucl. Chem.*, 1978, **40**, 1627 (mössbauer)

Bottomley, F. *et al*, *Acta Crystallogr., Sect. B*, 1979, **35**, 2193 (cryst struct)

C₅FeO₄S

Fe-00067

(Carbonothioyl)tetracarbonyliron, 10Cl

Tetracarbonyl(thiocarbonyl)iron

[66517-47-3]

Fe(CO)₄CS

M 211.960

Yellow-orange volatile light-sensitive oil at r.t., bright-yellow cryst. at -78° .

Petz, W. *et al*, *J. Organomet. Chem.*, 1978, **146**, C23; 1981, **205**, 203 (*synth*, *ir*, *cmr*, *ms*)

C₅FeO₄S₂

Fe-00068

(Carbon disulfide)tetracarbonyliron, 8Cl
[19194-19-5]



M 244.020

Synth. and used *in situ*. Sol. CS₂.

Baird, M.C. *et al*, *J. Chem. Soc. (A)*, 1967, 2037 (*synth*, *ir*)

C₅FeO₅

Fe-00069

Iron carbonyl, 9Cl, 8Cl

Iron pentacarbonyl. Pentacarbonyliron
[13463-40-6]



M 195.899

Catalyst for carbonylations and polymerisations. Used in manuf. of pure iron. Pale-yellow viscous liq. d_{4}^{18} 1.47.

Fp -20° to -19.5° . Bp₇₄₉ 102.8°. Dec. at $180^{\circ} \rightarrow \text{Fe} + \text{CO}$.

► Highly toxic by inhalation and skin absorption, TLV 0.08. Pyrophoric in air. NO4900000.

Ewens, R.V.G. *et al*, *Trans. Faraday Soc.*, 1939, **35**, 681 (*cryst struct*)

McDowell, R.S., *CA*, 1972, **76**, 89720 (*ir*)

Grobe, J. *et al*, *Z. Naturforsch., B*, 1973, **28**, 691 (*synth*)

Hagen, A.P. *et al*, *Inorg. Chem.*, 1978, **17**, 1369 (*synth*)

Gmelin's *Handbuch der Anorg. Chem.*, 8th Ed., 1979, Suppl. B3 (*bibl*, *spectra*)

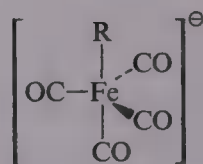
Sax, N.I., *Dangerous Properties of Industrial Materials*, 5th Ed., Van Nostrand-Reinhold, 1979, 747.

Hazards in the Chemical Laboratory, (Bretherick, L., Ed.), 3rd Ed., Royal Society of Chemistry, London, 1981, 367.

C₅HFeO₅[−]

Fe-00070

Tetracarbonylformylferrate(1−), 9Cl
[48055-09-0]



R = CHO

M 196.907 (ion)

Bis(triphenylphosphine)iminium salt: [41900-55-4].

C₄₁H₃₁FeNO₅P₂ M 735.494

Yellow needles. Mp 122–32° dec.

Collman, J.P. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 4089 (*synth*, *ir*, *cmr*)

Casey, C.P. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 5395 (*synth*, *pmr*, *cmr*)

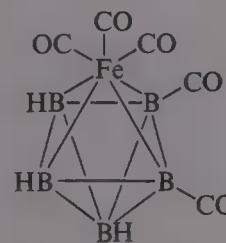
Gladysz, J.A. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 2545 (*synth*, *bibl*)

Tam, W. *et al*, *Inorg. Chem.*, 1983, **22**, 1413 (*synth*, *bibl*)

C₅H₃B₅FeO₅

Fe-00071

Tricarbonyl[(2,3,4,5-η)-dicarbonyltrihiropentaborato(2−)]iron, 10Cl
[61525-93-7]



M 252.973

Orange solid or red liq. Mp $\sim 5^{\circ}$.

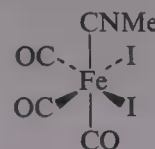
Ulman, J.A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1976, 632 (*synth*, *ms*, *ir*, *nmr*, *pmr*)

Ulman, J.A. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 456 (*pe*)

C₅H₃FeI₂NO₃

Fe-00072

Tricarbonyldiiodo(isocyanomethane)iron
Tricarbonyldiiodo(methyl isocyanide)iron, 8Cl
[31470-98-1]



M 434.740

Dark red-brown cubic cryst. or prismatic needles. Sl. sol.

EtOH, Me₂CO, mod. sol. Et₂O, v. sol. pet. ether, insol.

H₂O. Mp 115° dec.

Hieber, W. *et al*, *Chem. Ber.*, 1956, **89**, 610 (*synth*)

Becker, W.D. *et al*, *Z. Naturforsch., B*, 1970, **25**, 1332 (*nmr*)

C₅H₃FeO₄[−]

Fe-00073

Tetracarbonylmethylferrate(1−)



M 182.923 (ion)

Generated and used *in situ* for synth. of methyl ketones.

Na salt: [64883-59-6]. No phys. props. reported.

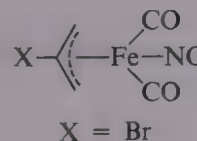
Collman, J.P., *Acc. Chem. Res.*, 1975, **8**, 342 (*rev*)

Collman, J.P. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 7381 (*cmr*)

C₅H₄BrFeNO₃

Fe-00074

(η³-2-Bromo-2-propenyl)dicarbonylnitrosyliron, 9Cl
(2-Bromo-π-allyl)dicarbonylnitrosyliron
[34664-05-6]



X = Br

M 261.843

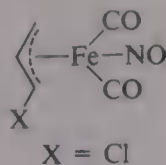
Deep-red oil.

Cardaci, G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 1808 (*synth*, *ir*, *pmr*)

C₅H₄ClFeNO₃

Fe-00075

Dicarbonyl(η^3 -1-chloro-2-propenyl)nitrosyliron, 9Cl
 Dicarbonyl(1-chloro- π -allyl)nitrosyliron, 8Cl
 [34664-03-4]



M 217.392
 Red oil.

Cardaci, G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 1808
 (synth, ir, pmr)
 Clarke, H.L. *et al*, *J. Organomet. Chem.*, 1974, **66**, 119 (ir,
 mössbauer)

C₅H₄ClFeNO₃

Fe-00076

Dicarbonyl(η^3 -2-chloro-2-propenyl)nitrosyliron, 9Cl
 Dicarbonyl(2-chloro- π -allyl)nitrosyliron, 8Cl
 [34664-04-5]
 As (η^3 -2-Bromo-2-propenyl)dicarbonylnitrosyliron, Fe-
 00074 with

X = Cl

M 217.392
 Red liq.

Cardaci, G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 1808
 (synth, ir, pmr)
 Clarke, H.L. *et al*, *J. Organomet. Chem.*, 1974, **66**, 119 (ir)

C₅H₄FeN₂O₄

Fe-00077

Tetracarbonyl(diaminomethylene)iron, 10Cl
 (Diaminocarbene)tetracarbonyliron
 [71317-82-3]

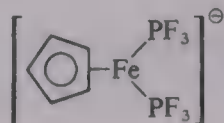


M 211.945
 Sand-coloured, air-sensitive cryst. Mp 89-92°. Sublimes.
 Petz, W., *J. Organomet. Chem.*, 1979, **172**, 415 (synth, ir, pmr)

C₅H₅F₆FeP₂[⊖]

Fe-00078

(η^5 -2,4-Cyclopentadien-1-yl)bis(phosphorous trifluoride)fer-
 rate(1-), 9Cl



M 296.879 (ion)
 Characterised spectroscopically.
K salt: [41551-00-2].

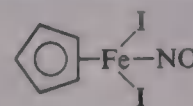
C₅H₅F₆FeKP₂ M 335.978
 No phys. props. reported.

Kruck, T. *et al*, *Chem. Ber.*, 1972, **105**, 3783 (synth, ir)

C₅H₅FeI₂NO

Fe-00079

(η^5 -2,4-Cyclopentadien-1-yl)diiodonitrosyliron



M 404.757

Black-violet cryst. (CH₂Cl₂). Mp ~140° dec. Bp 110-20°
 in vacuo subl.

Brunner, H. *et al*, *J. Organomet. Chem.*, 1968, **15**, 409 (synth,
 ms, ir, pmr)

C₅H₅FeNO₃

Fe-00080

Dicarbonylnitrosyl(η^3 -2-propenyl)iron, 9Cl
 π -Allyldicarbonylnitrosyliron, 8Cl. Nitrosyl-
 π -allyldicarbonyliron
 [12071-54-4]

As (η^3 -2-Bromo-2-propenyl)dicarbonylnitrosyliron, Fe-
 00074 with

X = H

M 182.946

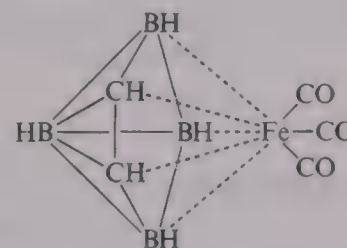
Air-sensitive red oil. Bp₂₀ 20°.

Bruce, R. *et al*, *Z. Naturforsch., B*, 1965, **20**, 73 (synth)
 Murdoch, H.D., *Z. Naturforsch., B*, 1965, **20**, 179 (synth, ir,
 pmr)
 Chaudhari, F.M. *et al*, *J. Chem. Soc. (C)*, 1967, 2255 (synth)
 Clarke, H.L. *et al*, *J. Organomet. Chem.*, 1974, **66**, 119 (ir,
 mössbauer)
 Sultanov, A.Sh., *et al*, *Zh. Obshch. Khim.*, 1977, **47**, 1336 (ms)

C₅H₆B₄FeO₃

Fe-00081

Tricarbonyl[(2,3,4,5,6- η)-hexahydro-2,3-dicarbaheptaborato(2-)]iron, 9Cl
 (π -2,3-C₂B₄H₆)tricarbonyliron. 1,2,3-Tricarbonyliron-
 C₂B₄H₆
 [51177-52-7]



M 213.188

Deep yellow-orange liq.

Grimes, R.N., *J. Am. Chem. Soc.*, 1971, **93**, 261 (synth, ms,
 nmr, pmr, ir)
 Sneddon, L.G. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 6623 (synth,
 ms, pmr, nmr, ir)

C₅H₆B₄FeO₃

Fe-00082

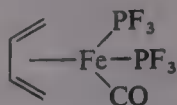
Tricarbonyl[(2,3,4,5,6- η)-hexahydro-2,4-dicarbaheptaborato(2-)]iron
 (π -2,4-C₂B₄H₆)tricarbonyliron. 1,2,4-
 (Tricarbonyliron)-C₂B₄H₆

M 213.188

Orange.

Sneddon, L.G. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 6623 (*synth*, *nmr*, *pmr*, *ir*)

C₅H₆F₆FeOP₂ **Fe-00083**
(η^4 -1,3-Butadiene)carbonylbis(phosphorous trifluoride)iron, ⁹Cl
[52993-20-1]



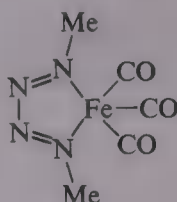
M 313.887

Fluxional mol. Low-melting yellow solid or yellow liq.

Warren, J.D. *et al*, *Inorg. Chem.*, 1970, **9**, 373 (*synth*, *ir*, *nmr*, *pmr*)

Busch, M.A. *et al*, *Inorg. Chem.*, 1975, **14**, 219 (*ir*)

C₅H₆FeN₄O₃ **Fe-00084**
Tricarbonyl(1,4-dimethyl-1,3-tetrazadiene-*N*¹,*N*⁴)iron, ⁹Cl
Tricarbonyl[μ -[1,4-dimethyl-2-tetrazenato(2-)]]*iron*, ⁸Cl
[38668-89-2]



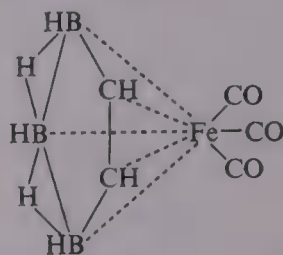
M 225.974

V. volatile orange-red cryst. Mp 47°. Bp 20° subl. *in vacuo*.

Dekker, M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1967, 1243 (*synth*, *ir*, *pmr*, *ms*)

Doedens, R.J., *J. Chem. Soc., Chem. Commun.*, 1968, 1271 (*struct*)

C₅H₇B₃FeO₃ **Fe-00085**
Tricarbonyl[(1,2,3,4,5- η)-heptahydro-1,2-dicarbapentaborato(2-)]iron, ¹⁰Cl
Dicarbacyclopentaboranyliron tricarbonyl. (2,3-C₂B₃H₇)tricarbonyliron
[33362-89-9]



M 203.386

Pale-yellow liq. Mp 0-15°.

Grimes, R.N., *J. Am. Chem. Soc.*, 1971, **93**, 261 (*synth*, *pmr*, *ms*, *ir*)

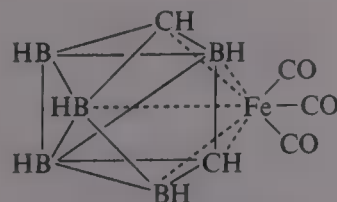
Franz, D.A. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 412 (*synth*)

Brennan, J.P. *et al*, *Inorg. Chem.*, 1973, **12**, 2266 (*struct*)

Sneddon, L.G. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 6623 (*synth*, *nmr*, *ir*)

Ulman, J.A. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 456 (*pe*)

C₅H₇B₅FeO₃ **Fe-00086**
Tricarbonyl[(3,4,5,6,7- η)-heptahydro-3,5-dicarbaheptaboro(2-)]iron, ⁹Cl
(4)-1,8-(Tricarbonyliron)-C₂B₅H₇
[51203-46-4]

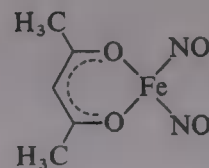


M 225.006

Orange.

Sneddon, L.G. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 6623 (*synth*, *nmr*, *pmr*, *ir*)

C₅H₇FeN₂O₄ **Fe-00087**
Dinitrosyl(2,4-pentanedionato)iron, ⁸Cl
(Acetylacetonato)dinitrosyliron
[28855-53-0]



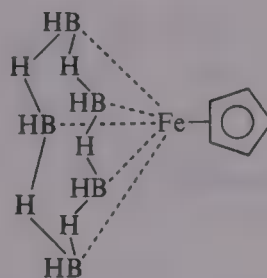
M 214.968

Thermally stable brown cryst. (THF/pentane).

Paramagnetic.

Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1970, 377, 29 (*synth*, *ir*)

C₅H₁₅B₅Fe **Fe-00088**
(η^5 -2,4-Cyclopentadien-1-yl)[η^5 -decahydropentaborato(1-)]iron, ¹⁰Cl
1-(η^5 -Cyclopentadienyl)-FeB₅H₁₀. Pentaboraferrocene
[65188-99-0]



M 185.071

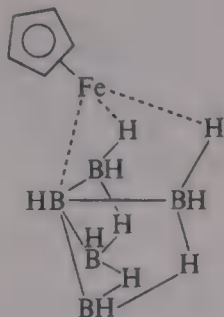
Dark-violet air-sensitive solid.

Weiss, R. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 8087; *Inorg. Chem.*, 1979, **18**, 3291 (*synth*, *pmr*, *nmr*, *ms*)

C₅H₁₅B₅Fe

Fe-00089

(η^5 -2,4-Cyclopentadien-1-yl)[η^5 -decahydropentaborato(1-)]-iron, 10Cl
2-(η^5 -Cyclopentadienyl)-FeB₅H₁₀
[71661-61-5]



M 185.071

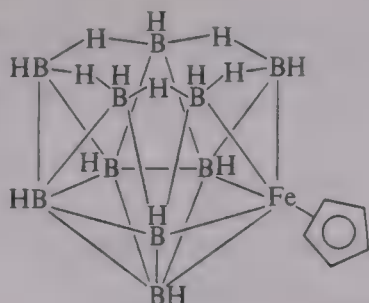
Air-sensitive violet cryst (hexane). Thermally isomerises to (η^5 -2,4-Cyclopentadien-1-yl)[η^5 -decahydropentaborato(1-)]iron, Fe-00088.

Weiss, R. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 8087; *Inorg. Chem.*, 1979, **18**, 3291 (*synth*, *pmr*, *nmr*, *ms*)

C₅H₂₀B₁₀Fe

Fe-00090

(η^5 -2,4-Cyclopentadien-1-yl)[η^5 -pentadecahydrodecaborato(2-)]iron, 10Cl
2-(η^5 -Cyclopentadienyl)-FeB₁₀H₁₅
[71661-62-6]



M 244.160

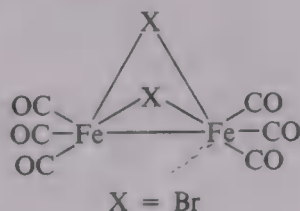
Yellow.

Weiss, R. *et al*, *Inorg. Chem.*, 1979, **18**, 3291 (*synth*, *pmr*, *nmr*, *ms*)

C₆Br₂Fe₂O₆

Fe-00091

Di- μ -bromohexacarbonyldiiron
Bis(tricarbonyliron bromide)
[36190-46-2]



M 439.564

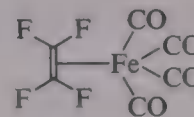
Fine dark-red needles (pentane). Unstable in soln. Mp 57-9° dec.

Koerner von Gustorf, E. *et al*, *Z. Naturforsch., B*, 1972, **27**, 140 (*synth*, *ir*, *uv*)

C₆F₄FeO₄

Fe-00092

Tetracarbonyl(tetrafluoroethylene)iron, 8Cl
Tetracarbonyl(η^2 -tetrafluoroethene)iron, 9Cl
[27658-72-6]



M 267.904

Liq. Reacts with C₂F₄ to give

Tetracarbonyl(1,1,2,2,3,3,4,4-octafluoro-1,4-butanediyl)iron, Fe-00242.

Fields, R. *et al*, *J. Chem. Soc. (A)*, 1970, 1969 (*synth*)

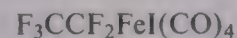
Beagley, B. *et al*, *Acta Crystallogr., Sect. B*, 1973, **29**, 1499 (*struct*)

Fields, R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 1867 (*synth*, *ir*, *ms*)

C₆F₅FeIO₄

Fe-00093

Tetracarbonyliodo(pentafluoroethyl)iron, 10Cl
[75866-39-6]



M 413.807

Orange-red moisture-sensitive cryst. Mp 15-6°. Bp_{1.0} 30° subl. May be a mixt. of *cis* and *trans* isomers.

Manuel, T.A. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 249, 3604 (*synth*, *nmr*, *ir*)

Pitcher, E. *et al*, *J. Chem. Phys.*, 1962, **36**, 124 (*nmr*)

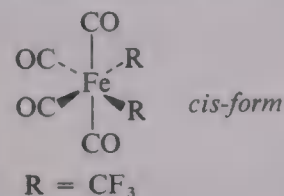
Pitcher, E. *et al*, *Spectrochim. Acta*, 1962, **18**, 585 (*ir*)

Stanley, K. *et al*, *Can. J. Chem.*, 1976, **54**, 1700 (*ir*)

C₆F₆FeO₄

Fe-00094

Tetracarbonylbis(trifluoromethyl)iron



M 305.901

cis-form [76136-70-4]

Pale-yellow cryst. (hexane/CH₂Cl₂). Mp 79-80°.

Hensley, D.W. *et al*, *Inorg. Chem.*, 1981, **20**, 645 (*synth*, *ir*, *nmr*, *cmr*)

C₆FeO₆^{⊕⊕}

Fe-00095

Hexacarbonyliron(2+)
[34248-86-7]



M 223.909 (ion)

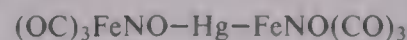
Not well characterised.

Hieber, W. *et al*, *Angew. Chem.*, 1961, **73**, 580 (*synth*, *ir*)

C₆Fe₂HgN₂O₈

Fe-00096

Hexacarbonyl(mercury)dinitrosyldiiron, 9Cl
Hexacarbonyl- μ -mercuriodinitrosyldiiron, 8Cl
[28411-05-4]



M 540.359

Red-orange cryst. (CH₂Cl₂). Sol. org. solvs. Mp 87-8° (sealed tube), 110°. Bp 40-80° subl. *in vacuo*.

Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1963, **320**, 101 (*synth, ir*)
Organomet. Synth., 1965, **1**, 165 (*synth*)
 Mazak, R.A. *et al*, *J. Chem. Phys.*, 1969, **51**, 3220 (*mössbauer*)
 Casey, M. *et al*, *J. Chem. Soc. (A)*, 1970, 2258 (*synth, ir*)

C₆Fe₂I₂O₆**Fe-00097****Hexacarbonyldi-μ-iododiiron**
Bis(tricarbonyliron iodide)

[36190-47-3]

As Di-μ-bromohexacarbonyldiiron, Fe-00091 with

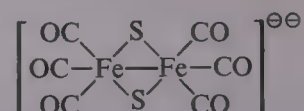


M 533.565

Dark-red needles. Mp 53° dec.

Koerner von Gustorf, E. *et al*, *Z. Naturforsch., B*, 1972, **27**, 140 (*synth, ir, uv*)**C₆Fe₂O₆S₂²⁻****Fe-00098****Hexacarbonyldi-μ-thioxodiferrate(2-), 10Cl***Hexacarbonyl[μ-(dithio)]diferrate(2-), 9Cl*

[69480-73-5]



M 343.876 (ion)

Generated and used *in situ*.*Di-Li salt*: [74438-48-5].C₆Fe₂Li₂O₆S₂ M 357.758

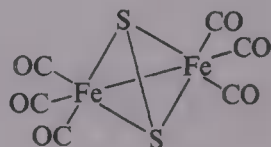
Emerald-green soln. in THF.

Di-K salt: [79255-02-0].C₆Fe₂K₂O₆S₂ M 422.073

Deep-green soln. in THF.

Bayer, E. *et al*, *Eur. J. Biochem.*, 1969, **8**, 4963 (*synth*)Seyferth, D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 508 (*synth*)Seyferth, D. *et al*, *J. Organomet. Chem.*, 1980, **192**, C1; 1981, **204**, 333 (*synth, use*)Seyferth, D. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 5103 (*synth, use*)**C₆Fe₂O₆S₂****Fe-00099****Hexacarbonyldithioxodiiron, 10Cl, 9Cl***Hexacarbonyl[μ-(dithio-S,S':S,S')]diiron, 9Cl. (μ-Dithio)bis(tricarbonyliron)*

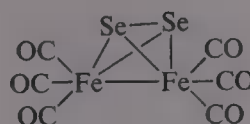
[14243-23-3]



M 343.876

Volatile ruby-red prisms. Mp 46.5°. Subl. at 40° *in vacuo*. Reduced by Na/THF to Hexacarbonyldi-μ-thioxodiferrate(2-), Fe-00098.Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1958, **296**, 91 (*synth, ir, uv*)Wei, C-H. *et al*, *Inorg. Chem.*, 1965, **4**, 1 (*struct*)Chaudhuri, M.K. *et al*, *J. Organomet. Chem.*, 1977, **124**, 37 (*ms*)Kettle, S.F.A. *et al*, *Inorg. Chem.*, 1977, **16**, 753 (*raman*)Seyferth, D. *et al*, *Organometallics*, 1982, **1**, 125 (*props*)**C₆Fe₂O₆Se₂****Fe-00100****Hexacarbonyl[μ-(diseleno-Se,Se':Se,Se')diiron, 10Cl***(μ-Diselenolato)bis(tricarbonyliron)*

[76185-26-7]

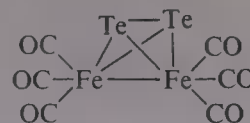


M 437.676

Air-sensitive deep ruby-red cryst. Mp 39-40.5°.

Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1958, **296**, 91 (*synth*)Campana, C.F. *et al*, *Inorg. Chem.*, 1979, **18**, 3060 (*struct*)Lesch, D.A. *et al*, *Inorg. Chem.*, 1981, **20**, 3583 (*ir*)Seyferth, D. *et al*, *J. Organomet. Chem.*, 1981, **204**, 333 (*synth, ms, ir*)**C₆Fe₂O₆Te₂****Fe-00101****Hexacarbonyl[μ-(ditelluro-Te,Te':Te,Te')diiron, 10Cl***(μ-Ditellurato)bis(tricarbonyliron)*

[76185-27-8]

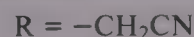


M 534.956

Labile orange cryst.

Lesch, D.A. *et al*, *J. Organomet. Chem.*, 1980, **199**, C6 (*derivs*)Lesch, D.A. *et al*, *Inorg. Chem.*, 1981, **20**, 3583 (*synth, ir, ms, nmr*)**C₆H₂FeNO₄⁻****Fe-00102****Tetracarbonyl(cyanomethyl)ferrate(1-), 9Cl**

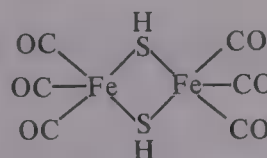
As Tetracarbonylformylferrate(1-), Fe-00070 with



M 207.933 (ion)

Generated and used *in situ* for org. synth.*Tl(I+) salt*: [55102-03-9].C₆H₂FeNO₄Tl M 412.316Red cryst. (CH₂Cl₂/hexane). Mp 105° dec.Siegl, W.O. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 2516 (*synth, ir*)Collman, J.P., *Acc. Chem. Res.*, 1975, **8**, 342 (*rev*)Pedersen, S.E. *et al*, *Inorg. Chem.*, 1975, **14**, 2365 (*synth, ir*)**C₆H₂Fe₂O₆S₂****Fe-00103****Hexacarbonyldi-μ-mercaptodiiron, 10Cl***Hexacarbonylbis(μ-hydrothioxo)diiron*

[71004-55-2]

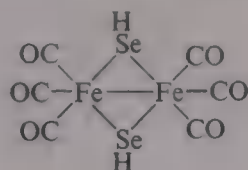


M 345.892

V. air-sensitive ruby-red cryst. Mp 62-4° dec., 97-9°.

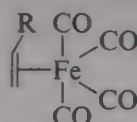
Mixt. of 3 isomers.

Gmelins Handbuch der Anorg. Chem., 1979, **C1**, 81.Seyferth, D. *et al*, *J. Organomet. Chem.*, 1980, **192**, C1 (*synth, pmr, ir*)

C₆H₂Fe₂O₆Se₂**Fe-00104****Hexacarbonyldi-μ-selenyldiiron, 10Cl**
[76683-34-6]

M 439.692

Red-purple substance.

Seyferth, D. *et al*, *J. Organomet. Chem.*, 1981, **204**, 333 (*synth*, *use*)**C₆H₃BrFeO₄****Fe-00105****(Bromoethylene)tetracarbonyliron**
(η²-Bromoethene)tetracarbonyliron, 9Cl
[33479-79-7]

R = Br

M 274.838

Oil.

Grevels, F.W. *et al*, *Justus Liebigs Ann. Chem.*, 1973, **11**, 1821 (*synth*, *ir*)Bigorgne, M., *J. Organomet. Chem.*, 1977, **127**, 55 (*ir*)**C₆H₃ClFeO₄****Fe-00106****Tetracarbonyl(chloroethylene)iron**
Tetracarbonyl(η²-chloroethene)iron, 9Cl. (Vinyl chloride)iron tetracarbonyl
[12192-44-8]

As (Bromoethylene)tetracarbonyliron, Fe-00105 with

R = Cl

M 230.387

Red-brown liq. Bp_{0.1} 20°.Koerner von Gustorf, E. *et al*, *Z. Naturforsch., B*, 1966, **21**, 42 (*synth*, *ir*, *ms*)Koerner von Gustorf, E. *et al*, *Justus Liebigs Ann. Chem.*, 1967, **707**, 190 (*ir*, *ms*)**C₆H₃FeNO₄****Fe-00107****Tetracarbonyl(isocyanomethane)iron, 9Cl**
Tetracarbonyl(methyl isocyanide)iron, 8Cl
[31274-91-6]MeNCFe(CO)₄

M 208.941

Large hydrophobic light-yellow plates or prisms. Sl. sol. org. solvs. Mp 31.5°. Bp 30-40° subl. *in vacuo*. Dec. above 75°.Hieber, W. *et al*, *Chem. Ber.*, 1956, **89**, 193 (*synth*, *ir*)Cotton, F.A. *et al*, *J. Chem. Soc.*, 1960, 1440 (*ir*)Becker, W.D. *et al*, *Z. Naturforsch., B*, 1970, **25**, 1332 (*nmr*)**C₆H₃FeO₅[−]****Fe-00108****Acetyltetracarbonylferrate(1−), 9Cl, 8Cl**
[45000-77-9]

As Tetracarbonylhydroferrate(1−), Fe-00042 with

X = −COCH₃

M 210.934 (ion)

Tetramethylammonium salt: [29567-74-6].

C₁₀H₁₅FeNO₅ M 285.079Cryst. (Me₂CO/Et₂O).Fischer, E.O. *et al*, *J. Organomet. Chem.*, 1970, **23**, 215 (*synth*, *ir*)Collman, J.P. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 7381 (*cmr*)Miller, R.G. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 627 (*synth*)**C₆H₃FeO₆[−]****Fe-00109****Tetracarbonyl(methoxycarbonyl)ferrate(1−), 9Cl**

As Tetracarbonylhydroferrate(1−), Fe-00042 with

X = −COOMe

M 226.933 (ion)

Tris(dimethylamino)methylum salt: [75364-98-6].

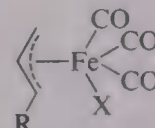
C₁₃H₂₁FeN₃O₆ M 371.172

Red-brown oil.

Petz, W. *et al*, *J. Organomet. Chem.*, 1976, **105**, C19 (*synth*, *ir*, *pmr*)Daub, J. *et al*, *Justus Liebigs Ann. Chem.*, 1980, 997 (*synth*, *ir*, *pmr*, *cmr*)**C₆H₄Br₂FeO₃****Fe-00110****Bromo(η³-1-bromo-2-propenyl)tricarbonyliron, 9Cl**

Bromo(1-bromo-π-allyl)tricarbonyliron

[53532-88-0]



R = X = Br

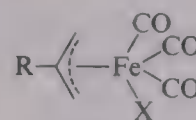
M 339.751

Red-brown needles. Mp 79-80° dec.

Murdoch, H.D. *et al*, *Helv. Chim. Acta*, 1962, **45**, 1156, 1927 (*synth*, *ir*)Chenskaya, T.B. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1973, 1146 (*ir*)Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1976, 1768 (*pmr*)**C₆H₄Br₂FeO₃****Fe-00111****Bromo(η³-2-bromo-2-propenyl)tricarbonyliron, 9Cl**

Bromo(2-bromo-π-allyl)tricarbonyliron

[61216-84-0]



R = X = Br

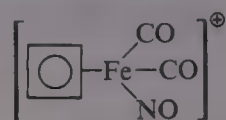
M 339.751

Yellow-brown prisms. Mp 84-5° dec.

Murdoch, H.D. *et al*, *Helv. Chim. Acta*, 1962, **45**, 1927 (*synth*, *ir*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1971, **33**, 375 (*ms*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **101**, 121 (*cmr*)Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1976, 1768 (*pmr*)

C₆H₄FeNO₃⁺

Fe-00112

Dicarbonyl(η⁴-1,3-cyclobutadiene)nitrosyliron(1+), 9Cl

M 193.950 (ion)

Hexafluorophosphate: [43175-64-0].

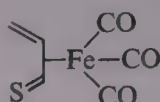
C₆H₄F₆FeNO₃P M 338.914Yellow cryst. (Me₂CO). Mp >167° dec.Efraty, A. *et al*, *Inorg. Chem.*, 1971, **13**, 1269 (*synth*, *ir*, *pmr*, *mössbauer*)C₆H₄FeO₃S

Fe-00113

Tricarbonyl[(S,1,2,3-η)-2-propenethial]iron, 9Cl

(Thioacrolein)irontricarbonyl

[60039-86-3]



M 212.003

Orange-red cryst. (pentane). Mp 28°.

Dittmer, D.C. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 2795 (*synth*, *ir*, *pmr*, *cmr*, *mössbauer*)C₆H₄FeO₄

Fe-00114

Tetracarbonyl(ethylene)iron

Tetracarbonyl(η²-ethene)iron, 9Cl

[32799-25-0]

As (Bromoethylene)tetracarbonyliron, Fe-00105 with

R = H

M 195.942

Orange-yellow liq. Mp -21.8°. Bp₁₂ 34°.Murdoch, H.D. *et al*, *Helv. Chim. Acta*, 1963, **46**, 1588 (*synth*)Koerner von Gustorf, E. *et al*, *Justus Liebigs Ann. Chem.*, 1967, **707**, 190 (*ir*, *ms*)Davis, M.I. *et al*, *J. Organomet. Chem.*, 1970, **21**, 401 (*synth*, *pmr*)Andrews, D.C. *et al*, *J. Organomet. Chem.*, 1972, **35**, 161 (*raman*)C₆H₄FeO₅

Fe-00115

Tetracarbonyl(η²-ethenol)iron, 9Cl

(Vinyl alcohol)iron tetracarbonyl

[38834-34-3]

As (Bromoethylene)tetracarbonyliron, Fe-00105 with

R = OH

M 211.942

Very unstable yellow liq. Mp -75° dec.

Ac:

C₈H₆FeO₆ M 253.979

Rose-red liq. Mp ca. -10°.

Trimethylsilyl ether:

C₉H₁₂FeO₅Si M 284.123

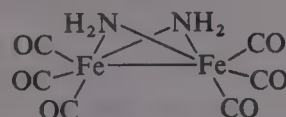
Very unstable yellow liq. Mp 0° dec.

Koerner von Gustorf, E. *et al*, *Z. Naturforsch., B*, 1963, **18**, 503 (*synth*)Thyret, H., *Angew. Chem., Int. Ed. Engl.*, 1972, **11**, 520 (*synth*, *pmr*)C₆H₄Fe₂N₂O₆

Fe-00116

Di-μ-amidohexacarbonyldiiron, 9Cl, 8Cl

[19705-87-4]



M 311.801

Air-sensitive orange-red needles with aromatic smell. Mp 81.5°. Bp 40° subl. *in vacuo*.Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1962, **317**, 63 (*synth*, *ir*)Dahl, L.F. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 5422 (*synth*, *struct*, *ms*)Frey, V. *et al*, *Z. Naturforsch., B*, 1968, **23**, 105 (*synth*, *struct*)C₆H₅BrFeO₃

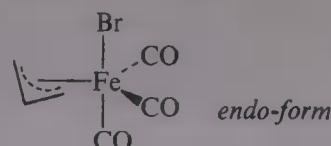
Fe-00117

Bromotricarbonyl(η³-2-propenyl)iron, 9Cl

π-Allylbromotricarbonyliron, 8Cl. Bromo-

π-allyltricarboxyliron

[61216-85-1]



M 260.855

Exists as a mixt. of 2 rotational isomers in soln.; solid-state structure is *endo* form. Yellow-brown prisms (pet. ether). Mp 93° (86-7°) dec.Murdoch, H.D. *et al*, *Helv. Chim. Acta*, 1962, **45**, 1927 (*synth*, *ir*)Noack, K., *Helv. Chim. Acta*, 1962, **45**, 1845 (*ir*)Heck, R.F. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 2580 (*synth*, *pmr*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1971, **33**, 375 (*ms*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **101**, 121 (*cmr*)Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1976, 1768 (*pmr*)Faller, J.W. *et al*, *J. Organomet. Chem.*, 1979, **170**, 71 (*pmr*)Simon, E. *et al*, *Inorg. Chem.*, 1980, **19**, 2338 (*struct*)C₆H₅ClFeO₃

Fe-00118

Tricarbonylchloro(η³-2-propenyl)iron, 9Cl(η³-Allyl)tricarbonylchloroiron. Allyltricarboxyliron chloride. Tricarbonylallylchloroiron

[38960-10-0]



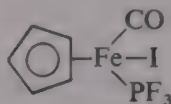
M 216.404

Two rotational isomers detected in soln. Yellow needles (pentane). Mp 88-9° dec. (80.6-83.2°).

Noack, K. *et al*, *Helv. Chim. Acta*, 1962, **45**, 1845 (*ir*)Murdoch, H.D. *et al*, *Helv. Chim. Acta*, 1962, **45**, 1927 (*synth*, *ir*)Heck, R.F. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 2580 (*synth*, *pmr*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1968, **14**, 387, 395; 1969, **16**, 163; 1971, **33**, 375; 1975, **101**, 121 (*synth*, *spectra*)Faller, J.W. *et al*, *J. Organomet. Chem.*, 1979, **170**, 71 (*pmr*)

C₆H₅F₃FeIOP**Fe-00119**

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)iodo(phosphorous tri-fluoride)iron, 9Cl
Carbonyl-π-cyclopentadienyliodo(trifluorophosphine)iron
 [34809-44-4]



M 363.825

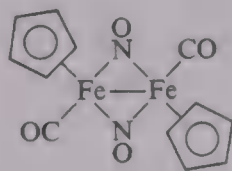
Brown cryst. by subl. Mp 102-3°. Bp_{0.1} 25° subl.King, R.B. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 3768 (*synth*, *ir*, *pmr*, *nmr*)**C₆H₅FeIO₃****Fe-00120**

Tricarbonyliodo(η³-2-propenyl)iron, 9Cl
π-Allyltricarboxyliodoiron, 8Cl. Iodo-π-allyltricarboxyliron
 [12189-10-5]

As Bromo(η³-2-bromo-2-propenyl)tricarbonyliron, Fe-00111 with

R = H, X = I

M 307.855

Exists as a mixt. of 2 rotational isomers in soln. Red-brown needles (hexane). Mp 85-6° dec., 98°, 101° dec. Bp_{1.0} 40° subl.Murdoch, H.D. *et al*, *Helv. Chim. Acta*, 1962, **45**, 1927 (*synth*, *ir*)Plowman, R.A. *et al*, *Z. Naturforsch., B*, 1962, **17**, 575 (*synth*, *ir*, *pmr*)Heck, R.F. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 2580 (*synth*, *pmr*)Minasyants, M.Kh. *et al*, *Zh. Strukt. Khim.*, 1968, **9**, 665 (*struct*)King, R.B., *Org. Mass. Spectrom.*, 1969, **2**, 401 (*ms*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1971, **33**, 375 (*ms*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **101**, 121 (*cmr*)Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1976, 1768 (*pmr*)Faller, J.W. *et al*, *J. Organomet. Chem.*, 1979, **170**, 71 (*pmr*)**C₆H₅FeNO₂****Fe-00121****Carbonyl(η⁵-2,4-cyclopentadien-1-yl)nitrosyliron**

M 178.958

Dimeric.

Dimer: [64782-85-0]. Dicarboxylbis(η⁵-2,4-cyclopentadien-1-yl)di-μ-nitrosyldiiron, 10Cl.C₁₂H₁₀Fe₂N₂O₄ M 357.916Greenish-brown cryst. (Me₂CO).Pandey, V.N., *Transition Met. Chem.*, 1977, **2**, 48 (*synth*, *ir*)**C₆H₅FeNO₃****Fe-00122****(η³-2-Buten-1-yl)dicarbonylnitrosyliron***Dicarbonyl(η³-1-carboxy-2-propenyl)nitrosyliron. Nitrosyldicarbonyl(1-carboxy-π-allyl)iron*As Dicarboxyl(η³-1-chloro-2-propenyl)nitrosyliron, Fe-00075 with

X = COOH

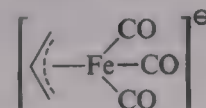
M 194.957

Me ester:C₇H₇FeNO₃ M 208.984

Air-sensitive red oil.

Bruce, R. *et al*, *Z. Naturforsch., B*, 1965, **20**, 73 (*synth*)Murdoch, H.D., *Z. Naturforsch., B*, 1965, **20**, 179 (*synth*, *ir*, *pmr*)**C₆H₅FeO₃[⊖]****Fe-00123**

Tricarbonyl(η³-2-propenyl)ferrate(1-), 9Cl
π-Allyltricarboxylferrate(1-)



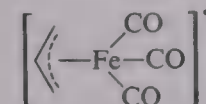
M 180.951 (ion)

Generated and used *in situ*.*Na salt*: [57816-29-2].C₆H₅FeNaO₃ M 203.940

No phys. props. reported.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1967, **176**, 341 (*synth*, *ir*)Gubin, S.P. *et al*, *J. Organomet. Chem.*, 1968, **15**, 471 (*synth*, *ir*)**C₆H₅FeO₃****Fe-00124**

Tricarbonyl(η³-2-propenyl)iron, 9Cl
η³-Allyltricarboxyliron
 [58257-86-6]



M 180.951

Radical formed by dissociation of co-existent

Hexacarbonylbis(η³-2-propenyl)diiron, Fe-00872 in soln. Green.Murdoch, H.D. *et al*, *Helv. Chim. Acta*, 1964, **47**, 1517 (*synth*, *ir*, *esr*)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1967, **176**, 341 (*synth*)Gubin, S.P. *et al*, *J. Organomet. Chem.*, 1968, **15**, 471.Crease, A.E. *et al*, *J. Chem. Soc., Chem. Commun.*, 1973, 775 (*synth*)Muetterties, E.L. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 5299 (*esr*)**C₆H₅FeO₄[⊖]****Fe-00125**

Tetracarboxylethylferrate(1-), 9Cl
 [44966-61-2]

As Tetracarboxylformylferrate(1-), Fe-00070 with

R = Et

M 196.950 (ion)

Used for ethyl ketone synth. Characterised spectroscopically.

Na salt: [64440-38-6].C₆H₅FeNaO₄ M 219.940

No phys. props. reported.

Bis(triphenylphosphine)iminium salt: [36464-65-0].C₄₂H₃₅FeNO₄P₂ M 735.537

No phys. props. reported.

Siegl, W.O. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 2516 (*synth*, *ir*)

Collman, J.P., *Acc. Chem. Res.*, 1975, **8**, 342 (*rev*)

Cann, K. *et al*, *Organometallics*, 1982, **1**, 1726 (*synth*)

C₆H₅FeO₅[−] Fe-00126

Tetracarbonyl(η⁵-methoxymethyl)ferrate(1−), 9CI

As Tetracarbonyl(η⁵-methyl)ferrate(1−), Fe-00070 with



M 212.950 (ion)

Generated and used *in situ* for org. synth. Characterised spectroscopically.

Bis(triphenylphosphine)iminium salt: [36464-68-3].

C₄₂H₃₅FeNO₅P₂ M 751.537

No phys. props. reported.

Siegl, W.O. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 2516 (*synth*, *ir*)

Collman, J.P., *Acc. Chem. Res.*, 1975, **8**, 342 (*rev*)

C₆H₆BFeNO₄ Fe-00127

Tetracarbonyl[*N,N*-dimethylboranaminato(2−)-*B*]iron, 9CI

Tetracarbonyl[(dimethylamino)borylene]iron, 8CI. Dimethylaminoborinetetracarbonyliron

[31388-53-1]



M 222.775

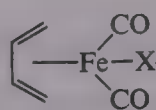
Volatile, colourless cryst., dec. at r.t. Mp −25°. Forms brown oligomer.

Schmid, G. *et al*, *Inorg. Chim. Acta*, 1970, **4**, 423 (*synth*, *ir*)

Schmid, G., *Angew. Chem., Int. Ed. Engl.*, 1972, **11**, 1034.

C₆H₆F₃FeO₂P Fe-00128

(η⁴-1,3-Butadiene)dicarbonyl(phosphorous trifluoride)iron



M 253.928

Yellow liq.

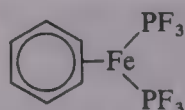
Warren, J.D. *et al*, *Inorg. Chem.*, 1970, **9**, 373 (*synth*, *pmr*, *nmr*, *ir*)

Busch, M.A. *et al*, *Inorg. Chem.*, 1975, **14**, 219 (*ir*)

C₆H₆F₆FeP₂ Fe-00129

(η⁶-Benzene)bis(phosphorous trifluoride)iron

(η⁶-Benzene)bis(trifluorophosphine)iron



M 309.898

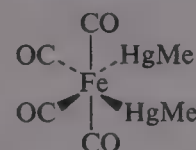
Incorrectly listed in 9CI. Unstable red solid. Dec. ca 50°.

Middleton, R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 120 (*synth*, *ms*, *nmr*, *pmr*)

C₆H₆FeHg₂O₄

Tetracarbonylbis(methylmercurio)iron, 8CI

[29917-20-2]



M 599.138

cis-form

Air-sensitive colourless cryst. Mp 104° (100-2° dec.).

Bp₂ 70-80° subl. On exposure to air cryst. become opaque and lose solubility in org. solvs. Disproportionates >100° to HgMe₂ and Tetracarbonylmercurioiron, Fe-00038.

Hein, F. *et al*, *Z. Anorg. Allg. Chem.*, 1942, **249**, 293 (*synth*)

Kahn, O. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1965, **261**, 2483 (*synth*)

Kahn, O. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1966, **262**, 906 (*ir*)

C₆H₆FeI₂N₂O₂ Fe-00131

Dicarbonyldiiodobis(isocyanomethane)iron

Dicarbonyldiiodobis(methyl isocyanide)iron, 8CI

[31470-99-2]



M 447.782

Stereochemistry not known. Dark-brown plates. Mp >130° dec.

Hieber, W. *et al*, *Chem. Ber.*, 1956, **89**, 610 (*synth*)

Becker, W.D. *et al*, *Z. Naturforsch., B*, 1970, **25**, 1332 (*nmr*)

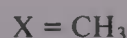
C₆H₇FeNO₃ Fe-00132

[(1,2,3-η)-2-Butenyl]dicarbonylnitrosyliron, 9CI

Nitrosyldicarbonyl(1-methyl-π-allyl)iron

[12012-85-0]

As Dicarbonyl(η³-1-chloro-2-propenyl)nitrosyliron, Fe-00075 with



M 196.973

syn-form

Air-sensitive red oil. Bp₂₀ 25°, Bp_{0.1} 20°.

Murdoch, H.D., *Z. Naturforsch., B*, 1965, **20**, 179 (*synth*, *ir*, *pmr*)

Chaudhari, F.M. *et al*, *J. Chem. Soc. (C)*, 1967, 2255 (*synth*, *pmr*, *ir*)

Clarke, H.C. *et al*, *J. Organomet. Chem.*, 1974, **66**, 119 (*mössbauer*, *ir*)

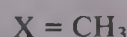
C₆H₇FeNO₃ Fe-00133

Dicarbonyl[(1,2,3-η)-2-methyl-2-propenyl]nitrosyliron, 9CI

Dicarbonyl(2-methyl-π-allyl)nitrosyliron, 8CI

[34664-02-3]

As (η³-2-Bromo-2-propenyl)dicarbonylnitrosyliron, Fe-00074 with



M 196.973

Red oil.

Cardaci, G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 1808 (*synth*, *ir*, *nmr*)

Clarke, H.L. *et al*, *J. Organomet. Chem.*, 1974, **66**, 119 (*mössbauer*, *ir*)

C₆H₉AuFeNO₄P **Fe-00134**
Tricarbonylnitrosyl[(trimethylphosphine)aurio]iron, 8Cl
 [33989-32-1]



M 442.929
 Mp 86–8° dec.

Casey, M. *et al*, *J. Chem. Soc. (A)*, 1971, 2989 (*synth, ir*)

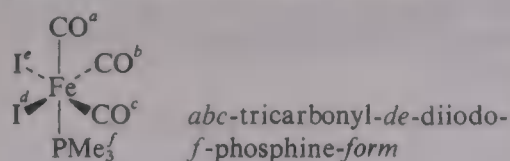
C₆H₉AuFeNO₇P **Fe-00135**
Tricarbonylnitrosyl[(trimethyl phosphite-*P*)aurio]iron
 [34088-91-0]



M 490.927
 Mp 50–1° dec.

Casey, M. *et al*, *J. Chem. Soc. (A)*, 1971, 2989 (*synth, ir*)

C₆H₉FeI₂O₃P **Fe-00136**
Tricarbonyldiiodo(trimethylphosphine)iron, 8Cl



M 469.765

abc*-tricarbonyl-*de*-diiodo-*f*-phosphine-*form [22624-27-7]
 mono-*cis, fac-form*

Brown needles. μ 6.6 D.

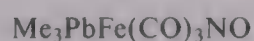
abf*-tricarbonyl-*cd*-diiodo-*e*-phosphine-*form [62107-13-5]
 mono-*cis, mer-form*

Brown prisms.

abf*-tricarbonyl-*ce*-diiodo-*d*-phosphine-*form [62075-78-9]
 mono-*trans, mer-form*
 Cryst.

Pankowski, M. *et al*, *J. Organomet. Chem.*, 1977, 125, 231
 (*synth, ir, nmr*)

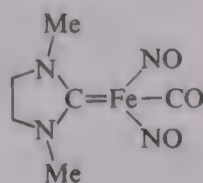
C₆H₉FeNO₄Pb **Fe-00137**
Tricarbonylnitrosyl(trimethylplumbyl)iron, 8Cl
 (*Tricarbonylnitrosyliron*)trimethyllead
 [31275-36-2]



M 422.188
 Orange cryst. (pentane). Mp 91–2°.

Casey, M. *et al*, *J. Chem. Soc. (A)*, 1971, 256 (*synth, ir*)

C₆H₁₀FeN₄O₃ **Fe-00138**
Carbonyl(1,3-dimethyl-2-imidazolidinylidene)dinitrosyliron,
 10Cl
 [66985-36-2]

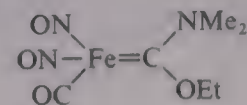


M 242.017

Dark red-brown needles (pentane). Mp 47°.

Lappert, M.F. *et al*, *J. Chem. Soc., Dalton Trans.*, 1977, 2172
 (*synth, ir, pmr, cmr*)

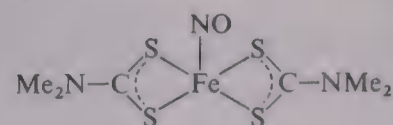
C₆H₁₁FeN₃O₄ **Fe-00139**
Carbonyl[(dimethylamino)ethoxymethylene]dinitrosyliron, 9Cl
 [35916-42-8]



M 245.018
 Red oil. Dec. >–20°.

Fischer, E.O. *et al*, *Chem. Ber.*, 1972, 105, 588 (*synth, ir, pmr, ms*)

C₆H₁₂FeN₃OS₄ **Fe-00140**
Bis(dimethylcarbamodithioato-*S, S'*)nitrosyliron, 9Cl
Bis(dimethyldithiocarbamato)nitrosyliron, 8Cl
 [14263-11-7]



M 326.267
 Stable dark-green cryst. giving yellow-green solns. Sol.
 CHCl₃, CS₂. Paramagnetic.

Cambi, L. *et al*, *CA*, 1932, 26, 41 (*synth*)

Gray, H.B. *et al*, *J. Am. Chem. Soc.*, 1962, 84, 3404 (*uv, esr*)

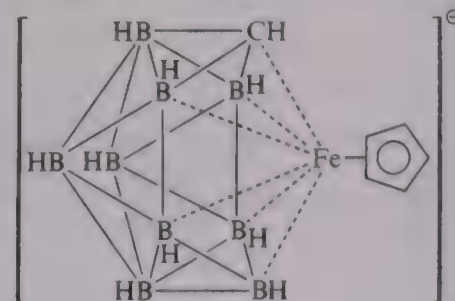
McNeil, D.A.C. *et al*, *Proc. Chem. Soc., London*, 1964, 364
 (*esr*)

Johnson, C.E. *et al*, *J. Chem. Phys.*, 1969, 50, 2594 (*mössbauer*)

Davies, G.R. *et al*, *J. Chem. Soc. (A)*, 1970, 1275 (*struct*)

Miki, E. *et al*, *Bull. Chem. Soc. Jpn.*, 1973, 96, 3779 (*ir*)

C₆H₁₅B₉Fe[⊖] **Fe-00141**
(η^5 -2,4-Cyclopentadien-1-yl)(η^6 -decahydrocarbadecebora-
to(2-))ferrate(1-), 10Cl
closo-[1- η^5 -Cyclopentadienylferrate-2-CB₉H₁₀]



M 240.322 (ion)
 Paramagnetic.

Tetramethylammonium salt: [62580-70-5].

C₁₀H₂₇B₉FeN M 314.467

Violet needles (MeOH).

Dolansky, J. *et al*, *Chem. Ind. (London)*, 1976, 853 (*synth, nmr*)

Subrtova, V. *et al*, *Acta Crystallogr., Sect. B*, 1978, 34, 2720
 (*struct*)

C₆H₁₈Cl₂FeP₂ **Fe-00142**
Dichlorobis(trimethylphosphine)iron, 9Cl
 [55853-16-2]



M 278.909

Paramagnetic. V. pale-green needles. Sol. THF, CH₂Cl₂.
Mp 108-12°. THF or CH₂Cl₂ solns. react with O₂ to
give bright-red solns.

Harris, T.V. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 6966 (*synth*)

Fe-00143

Dinitrosylbis(trimethyl phosphite-*P*)iron, 9Cl

Dinitrosylbis(phosphorous acid)iron hexamethyl ester,
8Cl

[23131-33-1]



M 364.011

Red liq. Sol. common org. solvs. Mp -42°. Dec. at 119°.
Stable in air at r.t. ca. 1 hr., dec. after 1 week at -30°
under N₂.

Kruck, T. *et al*, *Z. Anorg. Allg. Chem.*, 1973, **402**, 16 (*synth*, *ir*, *ms*)

Fe-00144

Tetracarbonyl(heptafluoropropyl)iodoiron, 9Cl

[22925-82-2]

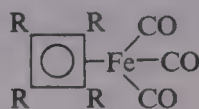


M 463.815

V. volatile orange-red moisture-sensitive cryst. Mp 69-
70°. Bp_{1.0} 30° subl. May be a mixt. of *cis* and *trans*
isomers.

Manuel, T.A. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 249, 3604
(*synth*, *ir*, *nmr*)Pitcher, E. *et al*, *J. Chem. Phys.*, 1962, **36**, 124 (*nmr*)Pitcher, E. *et al*, *Spectrochim. Acta*, 1962, **18**, 585 (*ir*)Lauterbur, P.C. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 3266 (*cmr*)Stanley, K. *et al*, *Can. J. Chem.*, 1976, **54**, 1700 (*ir*)

Fe-00145

Tricarbonyl(η⁴-1,2,3,4-tetraiodo-1,3-cyclobutadiene)iron

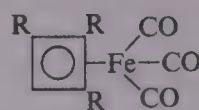
R = I

M 695.540

Mp 116-7°.

Amiet, G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1970, 161 (*synth*,
pmr)

Fe-00146

Tricarbonyl(η⁴-1,2,3-triiodo-1,3-cyclobutadiene)iron

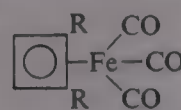
R = I

M 569.644

Mp 39-40°.

Amiet, G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1970, 161 (*synth*,
pmr)

Fe-00147

Tricarbonyl(η⁴-1,2-diiodo-1,3-cyclobutadiene)iron

R = I

M 443.747

Mp 72°.

Amiet, G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1970, 161 (*synth*,
pmr)

Fe-00148

Tricarbonyl(η⁴-1,3-diiodo-1,3-cyclobutadiene)iron

M 443.747

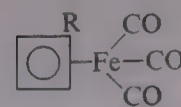
Oil.

Amiet, G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1970, 161 (*synth*,
pmr)

Fe-00149

(η⁴-1-Bromo-1,3-cyclobutadiene)tricarbonyliron, 9Cl

[38548-91-3]



R = Br

M 270.850

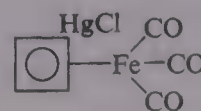
Pale-yellow oil. Bp_{0.15} 40°.Brune, H.A. *et al*, *Z. Naturforsch., B*, 1972, **27**, 505 (*synth*,
pmr, *ir*, *ms*)Brune, H.A. *et al*, *Z. Naturforsch., B*, 1974, **29**, 219 (*pmr*)Pruitt, P.L. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1977, 907
(*pmr*)

Fe-00150

Tricarbonyl[η⁴-(chloromercuri-1,3-cyclobutadiene)]iron

Tricarbonyl(chloromercury)[μ-(η⁴-1,3-cyclobutadi-
ene)]iron, 10Cl

[64121-52-4]



M 426.989

Used as source of Tricarbonyl[η⁴-(1-lithio-1,3-
cyclobutadiene)]iron, Fe-00153.Fitzpatrick, J.D. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 3254
(*synth*)Pruitt, P.L. *J. Chem. Soc., Perkin Trans. 2*, 1977, 907 (*pmr*)Davis, R.E. *et al*, *Inorg. Chem.*, 1980, **19**, 674 (*struct*)

Fe-00151

Tricarbonyl(η⁴-1-chloro-1,3-cyclobutadiene)iron, 9Cl

[32648-58-1]

As (η⁴-1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-
00149 with

R = Cl

M 226.399
Yellow oil. Mp -15° to -13° . Bp_{0.9} 40° .
Brune, H.A. *et al*, *Z. Naturforsch., B*, 1970, **25**, 326 (*ms*, *ir*, *synth*, *pmr*)
Brune, H.A. *et al*, *Z. Naturforsch., B*, 1974, **29**, 219 (*pmr*)

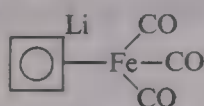
C₇H₃FeIO₃ **Fe-00152**
Tricarbonyl(η^4 -1-iodo-1,3-cyclobutadiene)iron, ^{10}Cl

[64121-50-2]
As (η^4 -1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with



M 317.850
Mp 5° .
Amiet, G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1970, 161 (*synth*, *pmr*)
Pruitt, P.L. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1977, 907 (*pmr*)

C₇H₃FeLiO₃ **Fe-00153**
Tricarbonyl[η^4 -(1-lithio-1,3-cyclobutadiene)]iron

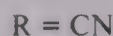


M 197.887
Generated and used *in situ*.
Reeves, P. *et al*, *J. Am. Chem. Soc.*, 1969, **91**, 5890 (*synth*, *use*)

C₇H₃FeNO₄ **Fe-00154**
Tetracarbonyl[(2,3- η)-2-propenenitrile]iron, ^9Cl

(Acrylonitrile)iron tetracarbonyl. Tetracarbonyl(cyanoethylene)iron

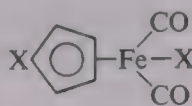
[15602-77-4]
As (Bromoethylene)tetracarbonyliron, Fe-00105 with



M 220.952
Bright-yellow cryst. Mp 40° . Bp 40° subl. *in vacuo*.
Kettle, S.F.A. *et al*, *Chem. Ind. (London)*, 1960, 49 (*synth*, *pmr*)
Luxmore, A.R. *et al*, *Acta Crystallogr.*, 1962, **15**, 1117 (*struct*)
Schubert, E.H. *et al*, *Inorg. Chem.*, 1966, **5**, 1071 (*ir*)
Koerner von Gustorf, E. *et al*, *Justus Liebigs Ann. Chem.*, 1967, **707**, 190 (*ir*, *ms*, *uv*)

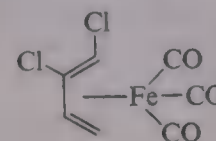
C₇H₄Br₂FeO₂ **Fe-00155**
Bromo(η^5 -1-bromo-2,4-cyclopentadien-1-yl)dicarbonyliron, ^{10}Cl

[68148-22-1]



M 335.762
Black-red needles (Et₂O). Mp 60° dec.
Herrmann, W. *et al*, *Chem. Ber.*, 1978, **111**, 3124 (*synth*, *ir*, *pmr*)

C₇H₄Cl₂FeO₃ **Fe-00156**
Tricarbonyl(η^4 -1,2-dichloro-1,3-butadiene)iron, ^9Cl



M 262.860
syn-form [38547-45-4]
Low-melting pale-yellow solid or yellow oil. Mp $<12^{\circ}$.
Bp_{0.7} 50.5 – 51.5° .
Brune, H.A. *et al*, *Tetrahedron*, 1972, **28**, 4455 (*synth*, *ir*, *ms*, *pmr*)

C₇H₄Cl₂FeO₃ **Fe-00157**
Tricarbonyl(η^4 -1,4-dichloro-1,3-butadiene)iron, ^9Cl

M 262.860
syn, syn-form [37724-92-8]
Yellow solid (pentane). Mp 44 – 5° . Bp_{0.2} 68 – 9° .
Brune, H.A. *et al*, *Z. Naturforsch., B*, 1969, **24**, 1518 (*synth*, *ir*, *uv*, *ms*)
Brune, H.A. *et al*, *Tetrahedron*, 1972, **28**, 2593, 4455 (*ir*)

C₇H₄Cl₂FeO₃ **Fe-00158**
Tricarbonyl(η^4 -2,4-dichloro-1,3-butadiene)iron, ^9Cl

[31922-32-4]
M 262.860
Yellow solid (pentane) or yellow oil. Mp 20.5° . Bp₁₀ 92 – 3° , Bp_{0.08} 29 – 30° .
Brune, H.A. *et al*, *Tetrahedron*, 1972, **28**, 2593 (*ir*, *synth*, *pmr*, *uv*, *ms*)
Nelson, S.M. *et al*, *J. Organomet. Chem.*, 1975, **96**, 383 (*synth*, *ir*, *pmr*, *ms*)

C₇H₄FeI₂O₂ **Fe-00159**
Dicarbonyliodo(η^5 -1-iodo-2,4-cyclopentadien-1-yl)iron, ^{10}Cl

[68148-23-2]
As Bromo(η^5 -1-bromo-2,4-cyclopentadien-1-yl)dicarbonyliron, Fe-00155 with



M 429.763
Black needles (Et₂O/CH₂Cl₂). Mp 72° .
Herrmann, W.A. *et al*, *Chem. Ber.*, 1978, **111**, 3124 (*synth*, *pmr*, *ir*, *cmr*)

C₇H₄FeO₃ **Fe-00160**
Tricarbonyl(η^4 -1,3-cyclobutadiene)iron, ^9Cl

Cyclobutadienetricarbonyliron

[12078-17-0]
As (η^4 -1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149, with



M 191.954
Yellow prisms (pentane). Mp 26° . Bp₃ 68 – 70° .
Emerson, G.F. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 131 (*synth*, *ir*, *pmr*)
Fitzpatrick, J.D. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 3254 (*synth*)

Pettit, R., *J. Am. Chem. Soc.*, 1965, **87**, 3254.
 Preston, H.G. *et al*, *J. Am. Chem. Soc.*, 1966, **88**, 1585 (*pmr*, *cmr*)
 Davis, M.I. *et al*, *J. Organomet. Chem.*, 1970, **21**, 401.
Org. Synth., 1970, **50**, 21 (*synth*)
 Blake, M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1979, 496 (*ms*)

C₇H₄FeO₃S **Fe-00161**

Tricarbonyl(η⁴-1,3-cyclobutadiene-1-thiol)iron, 10Cl

[66214-95-7]

As (η⁴-1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with

R = SH

M 224.014

Air-sensitive, not isol. Readily oxid. to [μ-[Bis(η⁴-1,3-cyclobutadien-1-yl)disulfide]]hexacarbonyldiiron, Fe-01142.

S-Me: [66214-96-8]. *Tricarbonyl[(1,2,3,4-η)-1-(methylthio)-1,3-cyclobutadiene]iron, 10Cl.*

C₈H₆FeO₃S M 238.041

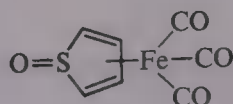
Oil. Bp_{0.1} 60°.

Marcincal, P. *et al*, *Bull. Soc. Chim. Fr.*, 1977, 489 (*synth*, *pmr*)

C₇H₄FeO₄S **Fe-00162**

Tricarbonyl[(2,3,4,5-η)-thiophene 1-oxide]iron, 9Cl

[60430-39-9]



M 240.013

No phys. props. reported.

Eekhof, J.H. *et al*, *J. Organomet. Chem.*, 1976, **111**, 349 (*synth*, *pe*)

C₇H₄FeO₅ **Fe-00163**

Tetracarbonyl[(2,3-η)-2-propenal]iron, 9Cl

(*Acrolein*)iron tetracarbonyl

[12287-43-3]

As (Bromoethylene)tetracarbonyliron, Fe-00105 with

R = CHO

M 223.953

Yellow cryst. Mp 34-35.5°. Bp_{0.01} 20° subl.

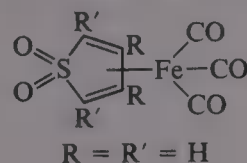
Weiss, E. *et al*, *Helv. Chim. Acta*, 1963, **27**, 288 (*synth*, *ir*, *pmr*)
 Koerner von Gustorf, E. *et al*, *Justus Liebigs Ann. Chem.*, 1967, **707**, 190 (*ir*, *ms*)

Sorrison, S. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 1041 (*synth*, *ir*, *pmr*)

C₇H₄FeO₅S **Fe-00164**

Tricarbonyl[(2,3,4,5-η)-thiophene 1,1-dioxide]iron, 9Cl

[42116-78-9]



R = R' = H

M 256.013

Cryst. (C₆H₆). Mp 189-90°.

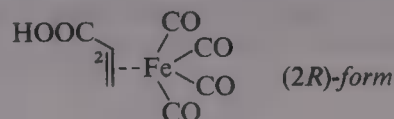
Chow, Y.L. *et al*, *J. Chem. Soc., Chem. Commun.*, 1972, 501 (*synth*, *pmr*, *uv*, *ms*)

Eekhof, J.H. *et al*, *J. Organomet. Chem.*, 1976, **111**, 349 (*pe*)

C₇H₄FeO₆ **Fe-00165**

Tetracarbonyl[(2,3-η)-2-propenoic acid]iron

(*Acrylic acid*)tetracarbonyliron, 8Cl. *Tetracarbonyl(carboxyethylene)iron, 8Cl*



(2*R*)-form

M 239.952

(2*R*)-form

[α]_D²⁵ -310° (c, 1.3 in Me₂CO).

(2*S*)-form [28042-06-0]

Mp 109-10° dec. [α]_D²⁵ +652° (c, 1.245 in Me₂CO).

Brucine salt: [12182-30-8]. Yellow cryst. (C₆H₆/hexane). [α]_D²⁵ +85° (c, 1.89 in Me₂CO).

(±)-form

Large bright-yellow prisms. Mp 104-6° dec. Bp_{0.01} 80-90° subl.

Me ester: [12287-67-1]. *Tetracarbonyl[(2,3-η)-methyl 2-propenoate]iron, 10Cl.*

C₈H₆FeO₆ M 253.979

Bright-yellow cryst. Mp 28-28.5°. Bp_{0.01} 25° subl.

Et ester: [12287-82-0].

C₉H₈FeO₆ M 268.006

Yellow liq. Mp ca. -2°. Bp_{1.0} 60-5°.

Weiss, E. *et al*, *Helv. Chim. Acta*, 1963, **27**, 288 (*synth*, *ir*, *pmr*)

Koerner von Gustorf, E. *et al*, *Justus Liebigs Ann. Chem.*, 1967, **707**, 190 (*ms*, *ir*)

Paiano, G. *et al*, *Gazz. Chim. Ital.*, 1967, **97**, 265 (*resoln*)

Musco, A. *et al*, *Inorg. Chim. Acta*, 1971, **5**, 157 (*cd*)

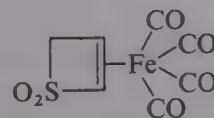
Kagan, J. *et al*, *J. Organomet. Chem.*, 1975, **90**, 67 (*derivs*, *cmr*)

Grevels, F.W. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 4069 (*cmr*)

C₇H₄FeO₆S **Fe-00166**

Tetracarbonyl[(3,4-η)-2H-thiete 1,1-dioxide]iron, 9Cl

[42116-78-9]



M 272.012

Yellow needles (hexane). Mp 99-100°.

McCaskie, J.E. *et al*, *J. Org. Chem.*, 1973, **38**, 3963 (*synth*, *ir*, *ms*, *pmr*)

The first digit of the Entry number defines the Supplement in which the Entry is found. 0 indicates the Main Work

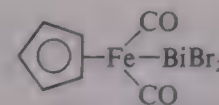
C₇H₄FeO₆S**Fe-00167****Tricarbonyl(η^4 -1,3-cyclobutadiene-1-sulfonic acid)iron****As (η^4 -1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with**

M 272.012

Cryst. (AcOH).

p-Toluidine salt: Yellow cryst. (H₂O). Mp 194° dec.*Chloride*: [58527-46-1].C₇H₃ClFeO₅S M 290.458

Cryst. (hexane). Mp 102°.

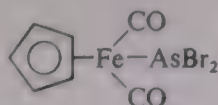
Marcincal, P. *et al*, *Bull. Soc. Chim. Fr.*, 1977, 489 (*synth*, *pmr*, *ir*)

M 545.751

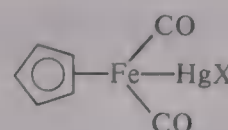
No phys. data reported.

Cullen, W.R. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 952 (*synth*)Cullen, W.R. *et al*, *Inorg. Chem.*, 1973, **12**, 967 (*deriv*)**C₇H₅AsBr₂FeO₂****Fe-00168****Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(dibromoarsino)iron, 9Cl***Dibromo*[dicarbonyl(η^5 -cyclopentadienyl)iron]arsine.*(Cyclopentadienyldicarbonyliron)arsenic dibromide*

[34823-24-0]



M 411.692

Orange needles (Me₂CO/Et₂O) or brown cryst. (CH₂Cl₂/pentane).Cullen, W.R. *et al*, *Inorg. Chem.*, 1973, **12**, 867 (*synth*, *ir*)

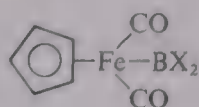
X = Br

M 457.456

Golden yellow. Mp 128-9° dec.

Mays, M.J. *et al*, *J. Chem. Soc. (A)*, 1968, 329 (*synth*, *ir*, *pmr*)Hsieh, A.T.T. *et al*, *Int. J. Mass Spectrom. Ion Phys.*, 1971, **7**, 297 (*ms*)Manning, A.R., *J. Chem. Soc. (A)*, 1971, 106 (*ir*)Kumar, R. *et al*, *J. Organomet. Chem.*, 1981, **216**, C61 (*synth*)**C₇H₅BCl₂FeO₂****Fe-00169****Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)dichloroboraneiron***Dicarbonyl- π -cyclopentadienyl(dichloroboryl)iron, 8Cl.**(Cyclopentadienyldicarbonyliron)boron dichloride. Di-**carbonyl(η^5 -cyclopentadienyl)iron dichloroborane*

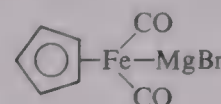
[12306-68-2]



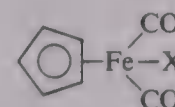
X = Cl

M 258.678

Brown.

Schmid, G. *et al*, *Chem. Ber.*, 1968, **101**, 1205 (*synth*)

M 281.171

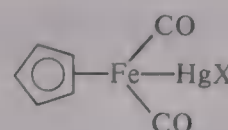
Prepd. and used *in situ*.Bauch, T. *et al*, *J. Organomet. Chem.*, 1975, **99**, 269 (*synth*, *use*)Felkin, H. *et al*, *J. Organomet. Chem.*, 1978, **146**, 151 (*use*)**C₇H₅BiBr₂FeO₂****Fe-00170****(Dibromobismuthino)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron***Dicarbonyl- π -cyclopentadienyl(dibromobismuthi-**no)iron, 8Cl. Dibromo*[dicarbonyl(η^5 -cyclopentadienyl)-*iron]bismuth. (Cyclopentadienyldicarbonyliron)bismuth**dibromide*

X = Br

M 256.866

Red-brown cryst. (CHCl₃/ligroin). Mp 98-102° dec. (air), 105-7° (vac.).**C₇H₅BrFeHgO₂****Fe-00171****(Bromomercury)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, 9Cl***(Bromomercurio)dicarbonyl- π -cyclopentadienyliron, 8Cl.**(Cyclopentadienyldicarbonyliron)mercuric bromide*

[32628-85-6]



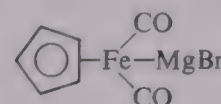
X = Br

M 457.456

Golden yellow. Mp 128-9° dec.

Mays, M.J. *et al*, *J. Chem. Soc. (A)*, 1968, 329 (*synth*, *ir*, *pmr*)Hsieh, A.T.T. *et al*, *Int. J. Mass Spectrom. Ion Phys.*, 1971, **7**, 297 (*ms*)Manning, A.R., *J. Chem. Soc. (A)*, 1971, 106 (*ir*)Kumar, R. *et al*, *J. Organomet. Chem.*, 1981, **216**, C61 (*synth*)**C₇H₅BrFeMgO₂****Fe-00172****Bromo[dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron]magnesium, 9Cl***(Bromomagnesium)dicarbonyl(η^5 -cyclopentadienyl)iron.**Cyclopentadienyldicarbonyliron magnesium bromide*

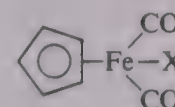
[57812-18-7]



M 281.171

Prepd. and used *in situ*.Bauch, T. *et al*, *J. Organomet. Chem.*, 1975, **99**, 269 (*synth*, *use*)Felkin, H. *et al*, *J. Organomet. Chem.*, 1978, **146**, 151 (*use*)**C₇H₅BrFeO₂****Fe-00173****Bromodicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, 9Cl***Cyclopentadienyldicarbonyliron bromide. Bromocyclopentadienyldicarbonyliron*

[12078-20-5]



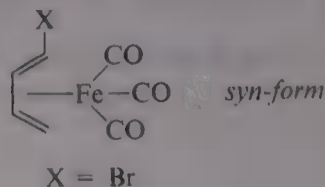
X = Br

M 256.866

Red-brown cryst. (CHCl₃/ligroin). Mp 98-102° dec. (air), 105-7° (vac.).

Hallam, B.F. *et al*, *J. Chem. Soc.*, 1956, 3030 (*synth*)
 Farnell, L.F. *et al*, *J. Chem. Soc., Dalton Trans.*, 1971, 1078 (*cmr*)
 Marks, T.J. *et al*, *J. Organomet. Chem.*, 1971, **33**, C35 (*pmr*)
 Meyer, T.J. *et al*, *Inorg. Chem.*, 1971, **10**, 1673 (*synth*)
 Pańkowski, M. *et al*, *J. Organomet. Chem.*, 1976, **110**, 331 (*ir*)

C₇H₅BrFeO₃ **Fe-00174**
 (η^4 -1-Bromo-1,3-butadiene)tricarbonyliron, 8Cl



M 272.866
syn-form [34779-21-0]
 Pale-yellow oil.
 Greene, R.N. *et al*, *J. Chem. Soc. (C)*, 1971, 3115 (*synth*, *ir*, *pmr*)

C₇H₅BrFeO₃ **Fe-00175**
 (η^4 -2-Bromo-1,3-butadiene)tricarbonyliron

M 272.866
 Pale-yellow liq.
 Greene, R.N. *et al*, *J. Chem. Soc. (C)*, 1971, 3115 (*synth*, *pmr*, *ir*)

C₇H₅BrFeO₅ **Fe-00176**

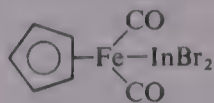
Bromotricarbonyl[(1,2,3- η)-2-buten-1-yloic acid]iron
Bromotricarbonyl[(η^3 -3-carboxy-2-propenyl)]iron. *Bromotricarbonyl*(1-carboxy- π -allyl)iron
 As Bromo(η^3 -1-bromo-2-propenyl)tricarbonyliron, Fe-00110 with

R = COOH, X = Br

M 304.865
Me ester:
 C₈H₇BrFeO₅ M 318.891
 Yellow-brown prisms. Mp 72-3;° 65° dec.
 Murdoch, H.D. *et al*, *Helv. Chim. Acta*, 1962, **45**, 1927 (*synth*, *ir*)
 Noack, K., *Helv. Chim. Acta*, 1962, **45**, 1845 (*ir*)
 Heck, R.F. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 2580 (*synth*)

C₇H₅Br₂FeInO₂ **Fe-00177**

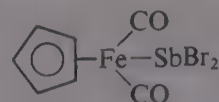
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(dibromoindium)iron,
 9Cl
 (Cyclopentadienyldicarbonyliron)indium dibromide
 [36956-59-9]



M 451.590
 Yellow microcryst. (THF/pet. ether).
 Hsieh, A.T.T. *et al*, *J. Organomet. Chem.*, 1972, **37**, 9 (*synth*, *ir*, *ms*)

C₇H₅Br₂FeO₂Sb **Fe-00178**

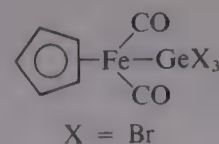
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(dibromostibino)iron
 (Cyclopentadienyldicarbonyliron)dibromoantimony.
 [Dicarbonyl(η^5 -cyclopentadienyl)iron]dibromostibine
 [34822-76-9]



M 458.520
 Orange-yellow needles. Mp 144-5° dec.
 Cullen, W.R. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 952 (*synth*)
 Malisch, W. *et al*, *Chem. Ber.*, 1976, **109**, 692 (*synth*, *ir*, *pmr*)

C₇H₅Br₃FeGeO₂ **Fe-00179**

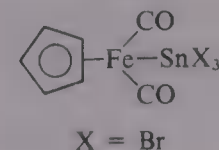
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(tribromogermyl)iron,
 9Cl
 (Dicarbonyl- π -cyclopentadienyliron)tribromogermane.
 (Cyclopentadienyldicarbonyliron)germanium tribromide
 [36118-32-8]



M 489.264
 Yellow cryst. Mp 158°.
 Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1969, **758**, 1520 (*synth*, *ir*, *pmr*)
 Edmondson, R.C. *et al*, *J. Organomet. Chem.*, 1972, **35**, 119 (*synth*, *ir*, *pmr*)

C₇H₅Br₃FeO₂Sn **Fe-00180**

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(tribromostannyl)iron,
 9Cl
 (Dicarbonyl- π -cyclopentadienyliron)tribromostannane.
 (Cyclopentadienyldicarbonyliron)tin tribromide
 [12192-92-6]



M 535.364
 Orange cryst. Mp 168-9°.
 Ugo, R. *et al*, *Inorg. Chim. Acta*, 1967, **1**, 451 (*synth*, *ir*, *pmr*)
 Mays, M.J. *et al*, *J. Chem. Soc. (A)*, 1969, 136 (*synth*, *ir*, *nmr*)
 Melson, C.A. *et al*, *J. Chem. Soc. (A)*, 1970, 2247 (*cryst struct*)
 Hackett, P. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 1487 (*synth*, *ir*)
 Dickinson, R.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 424 (*mössbauer*)
 Barker, S.L. *et al*, *Inorg. Chim. Acta*, 1978, **31**, 217 (*ir*, *raman*)
 O'Dwyer, B. *et al*, *Inorg. Chim. Acta*, 1980, **38**, 103 (*synth*, *ir*)

C₇H₅ClFeHgO₂ **Fe-00181**

Dicarbonyl(chloromercury)(η^5 -2,4-cyclopentadien-1-yl)iron,
 9Cl
 Dicarbonyl(chloromercurio)- π -cyclopentadienyliron,
 8Cl. (Cyclopentadienyldicarbonyliron)mercuric chloride

[12287-46-6]

As (Bromomercury)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00171 with

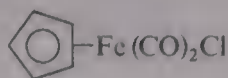
X = Cl

M 413.005

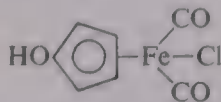
Golden-yellow cryst. Mp 115° dec.

Mays, M.J. *et al*, *J. Chem. Soc. (A)*, 1968, 329 (*synth*, *ir*, *pmr*)Hsieh, A.T.T., *Int. J. Mass Spectrom. Ion Phys.*, 1971, **7**, 297 (*ms*)Cenini, S. *et al*, *Gazz. Chim. Ital.*, 1972, **102**, 141 (*ir*)Dizikes, L.J. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 5295 (*synth*)Kumar, R. *et al*, *J. Organomet. Chem.*, 1981, **216**, C61 (*synth*)**C₇H₅ClFeO₂****Fe-00182****Dicarbonylchloro(η^5 -2,4-cyclopentadien-1-yl)iron, η^1 Cl***Dicarbonylchloro- π -cyclopentadienyliron, η^1 Cl. Cyclopentadienyldicarbonyliron chloride*

[12107-04-9]



M 212.415

Red cryst. (CHCl₃/pet. ether). Mp 85-6°, 94-5°.*Inorg. Synth.*, 1971, **12**, 36 (*synth*)Johnson, E.C. *et al*, *Inorg. Chem.*, 1971, **10**, 1673 (*synth*)Gansow, D.J. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 3406 (*ir*, *cmr*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1972, **37**, 159 (*pmr*)Duane, D.B. *et al*, *Inorg. Chim. Acta*, 1973, **7**, 345 (*synth*)**C₇H₅ClFeO₃****Fe-00183****Dicarbonylchloro(η^5 -1-hydroxy-2,4-cyclopentadien-1-yl)iron**

M 228.415

Red prisms (CHCl₃).*Me ether*: Dicarbonylchloro(η^5 -1-methoxy-2,4-cyclopentadien-1-yl)iron.C₈H₇ClFeO₃ M 242.442Orange-red cryst. (C₆H₆/pet. ether).*Ac*:C₉H₇ClFeO₄ M 270.452Red prisms (C₆H₆/pet. ether).Weiss, E. *et al*, *Chem. Ber.*, 1962, **95**, 1170 (*synth*)**C₇H₅ClFeO₃****Fe-00185****Tricarbonyl(η^4 -1-chloro-1,3-butadiene)iron, η^1 Cl**As (η^4 -1-Bromo-1,3-butadiene)tricarbonyliron, Fe-00174 with

X = Cl

M 228.415

syn-form [37724-94-0]Pale-yellow cryst. (pentane). Mp 28°. Bp_{0.1} 33°.Brune, H.A. *et al*, *Tetrahedron*, 1972, **28**, 2593, 4455 (*synth*, *ir*, *ms*, *pmr*)**C₇H₅ClFeO₃****Fe-00184****Tricarbonyl(η^4 -2-chloro-1,3-butadiene)iron, η^1 Cl**

[37724-96-2]

M 228.415

Bright-yellow or orange oil.

Greene, R.N. *et al*, *J. Chem. Soc. (C)*, 1971, 3115 (*pmr*)Brune, H.A. *et al*, *Tetrahedron*, 1972, **28**, 2593, 4455 (*synth*, *ir*, *pmr*, *uv*, *ms*)Nelson, S.M. *et al*, *J. Organomet. Chem.*, 1975, **96**, 383 (*synth*)**C₇H₅Cl₃FeGeO₂****Fe-00186****Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trichlorogermyl)iron, η^1 Cl***(Dicarbonyl- π -cyclopentadienyliron)trichlorogermane.**(Cyclopentadienyldicarbonyliron)germanium trichloride*

[12107-06-1]

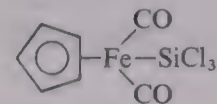
As Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(tribromogermyl)iron, Fe-00179 with

X = Cl

M 355.911

Yellow cryst. (Et₂O/pet. ether). Mp 139°.Cotton, J.D. *et al*, *Inorg. Nucl. Chem. Lett.*, 1970, **6**, 727 (*synth*)Edmondson, R.C. *et al*, *J. Organomet. Chem.*, 1972, **35**, 119*(synth*, *ir*, *pmr*)Clark, H.C. *et al*, *J. Organomet. Chem.*, 1974, **74**, 29*(mössbauer*, *ir*)Nekrasov, Y.S. *et al*, *J. Organomet. Chem.*, 1975, **97**, 253 (*ms*)**C₇H₅Cl₃FeO₂Si****Fe-00187****Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trichlorosilyl)iron, η^1 Cl***(Dicarbonyl- π -cyclopentadienyliron)trichlorosilane.**[(η^5 -Cyclopentadienyl)dicarbonyliron]trichlorosilane*

[34742-07-9]



M 311.407

Yellow cryst. Unstable towards H₂O and O₂. Mp 128-30°.Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1967, 264 (*synth*, *ir*)Graham, W.A.G. *et al*, *Inorg. Chem.*, 1971, **10**, 1159 (*synth*, *ir*, *pmr*)Clark, H.C. *et al*, *J. Organomet. Chem.*, 1974, **74**, 29 (*ir*, *nmr*, *mössbauer*)Malisch, W. *et al*, *Chem. Ber.*, 1974, **107**, 2835 (*synth*)**C₇H₅Cl₃FeO₂Sn****Fe-00188****Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trichlorostannyl)iron, η^1 Cl***(Dicarbonyl- π -cyclopentadienyliron)trichlorostannane.**(Cyclopentadienyldicarbonyliron)tin trichloride*

[12192-93-7]

As Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(tribromostannyl)iron, Fe-00180 with

X = Cl

M 402.011

Ochre-yellow or orange-yellow cryst. Mp 158°.

Ugo, R. *et al*, *Inorg. Chim. Acta*, 1967, **1**, 451 (*synth*, *ir*, *pmr*)Hackett, P. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 1487*(synth*, *ir*)Dickinson, R.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 424 (*mössbauer*, *nmr*)

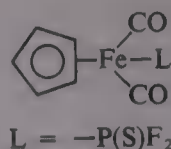
Barker, S.L. *et al*, *Inorg. Chim. Acta*, 1978, **31**, 217 (*ir*, *raman*)
 Spalding, T.R., *J. Organomet. Chem.*, 1978, **149**, 371 (*ms*)
 O'Dwyer, B. *et al*, *Inorg. Chim. Acta*, 1980, **38**, 103 (*synth*, *ir*)

C₇H₅F₂FeO₂PS Fe-00189

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(difluorophosphinothioyl-P)iron, 9Cl

Dicarbonyl-π-cyclopentadienyliron thiophosphoryl difluoride

[38959-64-7]



M 277.993

Orange-brown solid.

Colburn, C.B. *et al*, *Inorg. Nucl. Chem. Lett.*, 1972, **8**, 625 (*synth*, *ir*, *pmr*)

C₇H₅FeIO₂ Fe-00190

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iidoiron, 9Cl
 (η⁵-Cyclopentadienyl)dicarbonyliidoiron. *Cyclopentadienyldicarbonyliron iodide*

[12078-28-3]

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, Fe-00173 with

X = I

M 303.867

Black or dark-purple cryst. (CHCl₃/pet. ether). Mp 117-8° dec. Bp_{0.1} 90° subl.

Hallam, B.F. *et al*, *J. Chem. Soc.*, 1956, 3030 (*synth*, *ir*)
Inorg. Synth., 1963, **7**, 110 (*synth*)

Meyer, T.J. *et al*, *Inorg. Chem.*, 1971, **10**, 1673 (*synth*)

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1972, **37**, 159 (*pmr*)

Innorta, G. *et al*, *Inorg. Chim. Acta*, 1976, **19**, 263 (*ms*)

Long, G.J. *et al*, *Inorg. Chem.*, 1978, **17**, 486 (*mössbauer*)

Abrahamson, H.B. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 4123 (*ir*, *uv*)

C₇H₅FeNO₃ Fe-00191

Tricarbonyl(η⁴-1,3-cyclobutadien-1-amine)iron, 9Cl
 (Aminocyclobutadienyl)tricarbonyliron

[33039-25-7]

As (η⁴-1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with

R = NH₂

M 206.968

Mp 50°. Bp_{0.1} 90-5°.

N,N-Di-Me: [58527-50-7].

C₉H₉FeNO₃ M 235.022

Mp 46°.

Marcincal, P. *et al*, *Bull. Soc. Chim. Fr.*, 1977, 489 (*synth*, *ir*, *pmr*)

Pruitt, P.L. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1977, 907 (*pmr*)

C₇H₅FeN₃O₂ Fe-00192

Azidodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, 9Cl
Cyclopentadienyldicarbonyliron azide

[42765-82-2]

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, Fe-00173 with

X = N₃

M 218.982

Red or dark-purple cryst. (CH₂Cl₂/hexane). Mp 72.5-73°.

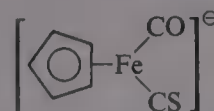
Dombek, B.D. *et al*, *Inorg. Chim. Acta*, 1973, **7**, 345 (*synth*, *ir*, *pmr*)

Rosan, A. *et al*, *J. Organomet. Chem.*, 1974, **80**, 103 (*synth*, *ir*, *pmr*, *ms*)

Brown, D.A. *et al*, *Inorg. Chim. Acta*, 1978, **29**, L215.

C₇H₅FeOS[⊖] Fe-00193

(Carbonothioyl)carbonyl(η⁵-2,4-cyclopentadien-1-yl)ferrate(1-), 10Cl



M 193.023 (ion)

Generated and reacted *in situ*.

Na salt: [68868-34-8].

C₇H₅FeNaOS M 216.013

Not isol.

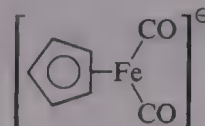
Quick, M.H. *et al*, *J. Organomet. Chem.*, 1978, **160**, 231 (*synth*)

C₇H₅FeO₂[⊖] Fe-00194

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)ferrate(1-), 9Cl

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron(1-). π-Cyclopentadienyldicarbonyliron(1-)

[12107-09-4]



M 176.962 (ion)

Generated and used *in situ*.

Li salt: [33361-37-4].

C₇H₅FeLiO₂ M 183.903

Generated and used *in situ*.

Li salt, tetramethylethylenediamine complex (1:1):

C₁₃H₂₁FeLiN₂O₂ M 300.109

Yellow cryst.

Na salt: [12152-20-4].

C₇H₅FeNaO₂ M 199.952

Generated and used *in situ*.

K salt: [60039-75-0].

C₇H₅FeKO₂ M 216.061

Air-sensitive orange solid.

Tetramethylphosphonium salt: [53203-71-7].

C₁₁H₁₇FeO₂P M 268.075

Orange-yellow solid.

▷ Pyrophoric

Tetraethylphosphonium salt: [53203-69-3].

C₁₅H₂₅FeO₂P M 324.182

Orange-yellow solid.

▷ Pyrophoric

Tetrabutylammonium salt:

C₂₃H₄₁FeNO₂ M 419.429

Orange-red cryst. (THF). Mp 101° dec.

Organomet. Synth., 1965, **1**, 151 (*synth*)

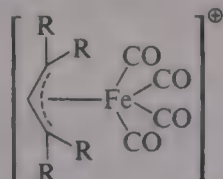
Cohen, S.C., *J. Chem. Soc., Dalton Trans.*, 1973, 553.

- Malisch, W., *J. Organomet. Chem.*, 1973, **61**, C15 (*ir*)
 Ellis, J.E. *et al*, *J. Organomet. Chem.*, 1975, **99**, 263 (*ir*)
 Jonas, K. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1979, **18**, 549 (*synth*)
 Reger, D.L. *et al*, *Synth. React. Inorg. Metal-Org. Chem.*, 1979, **7**, 151.
 Plotkin, J.S. *et al*, *Inorg. Chem.*, 1981, **20**, 284 (*ir*)

C₇H₅FeO₄⁺

Fe-00195

Tetracarbonyl(η³-2-propenyl)iron(1+), 9Cl
 Tetracarbonyl-π-allyliron(1+)



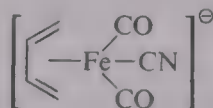
R = H

- M 208.961 (ion)
 Originally formulated (1962) with 3 CO ligands.
 Undergoes addition reacns. with nucleophiles.
 Tetrafluoroborate: [43140-17-6].
 C₇H₅BF₄FeO₄ M 295.765
 Off-white solid.
 Whitesides, T.H. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 5792 (*synth, use*)
 Parakkat, B.C. *et al*, *J. Inorg. Nucl. Chem.*, 1975, **37**, 2340 (*raman*)
 Brookhart, M. *et al*, *Inorg. Chem.*, 1976, **15**, 1550 (*ir, cmr*)
 Gibson, D.H. *et al*, *J. Organomet. Chem.*, 1978, **155**, 221 (*cmr*)
 Dieter, J. *et al*, *J. Organomet. Chem.*, 1981, **212**, 107 (*synth*)

C₇H₆FeNO₂⁺

Fe-00196

(η⁴-1,3-Butadiene)dicarbonyl(cyano-C)ferrate(1-), 10Cl
 [73467-25-1]



- M 191.977 (ion)
 Fluxional in soln. Precursor for isonitrile-Fe complexes.
 Na salt: [75070-56-3].
 C₇H₆FeNNaO₂ M 214.967
 Large bright-yellow needles.
 Behrens, H. *et al*, *Z. Anorg. Allg. Chem.*, 1975, **416**, 193 (*synth, ir, pmr*)
 Moll, M. *et al*, *Z. Naturforsch., B*, 1976, **31**, 1019 (*use*)
 Moll, M. *et al*, *Z. Anorg. Allg. Chem.*, 1979, **458**, 202 (*pmr, ir, cmr*)
 Behrens, H. *et al*, *J. Organomet. Chem.*, 1980, **192**, 389 (*use*)

C₇H₆FeNO₅⁺

Fe-00197

Tetracarbonyl[(dimethylamino)carbonyl]ferrate(1-), 9Cl
 [55658-16-7]

As Tetracarbonylhydroferrate(1-), Fe-00042 with



- M 239.975 (ion)
 Tris(dimethylamino)methylum salt: [57048-39-2].
 C₁₄H₂₄FeN₄O₅ M 384.214
 Red-brown oil.

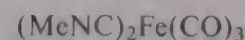
- Petz, W. *et al*, *J. Organomet. Chem.*, 1975, **90**, 223 (*synth, ir*)
 Daub, J. *et al*, *Justus Liebigs Ann. Chem.*, 1980, 997 (*synth, ir, pmr, cmr*)
 Sosinsky, B.A. *et al*, *Inorg. Chem.*, 1982, **21**, 4229 (*mössbauer*)
 Angelici, R.J. *et al*, *Inorg. Chim. Acta*, 1983, **76**, L9 (*cmr*)

C₇H₆FeN₂O₃

Fe-00198

Tricarbonylbis(isocyanomethane)iron

Tricarbonylbis(methyl isocyanide)iron, 8Cl
 [31471-00-8]



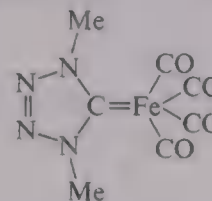
- M 221.983
 Colourless rectangular plates (pet. ether). Sl. sol. EtOH, Et₂O, C₆H₆, EtOAc, v. sol. pet. ether. Mp 100-30° dec. Air-sensitive. Solns. are unstable, esp. in the light.
 Hieber, W. *et al*, *Chem. Ber.*, 1956, **89**, 193 (*synth, uv*)
 Becker, W.D. *et al*, *Z. Naturforsch., B*, 1970, **25**, 1332 (*nmr*)

C₇H₆FeN₄O₄

Fe-00199

Tetracarbonyl(1,4-dihydro-1,4-dimethyl-5H-tetrazol-5-ylidene)iron, 9Cl
 (1,4-Dimethyltetrazolin-5-ylidene)tetracarbonyliron

[36570-17-9]



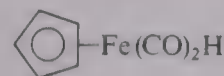
- M 265.996
 Pale-yellow needles (hexane). Mp 40-1°.
 Öfele, K. *et al*, *Chem. Ber.*, 1972, **105**, 529 (*synth, ir, pmr*)
 Müller, J. *et al*, *J. Organomet. Chem.*, 1974, **82**, 383 (*ms*)

C₇H₆FeO₂

Fe-00200

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)hydroiron, 9Cl

Cyclopentadienyldicarbonyliron hydride
 [35913-82-7]



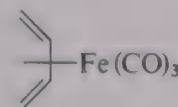
- M 177.970
 Malodorous pale-yellow liq. Stable below -10°; attacked by O₂.
 Green, M.L.H. *et al*, *Z. Naturforsch., B*, 1959, **14**, 738 (*synth*)
 Davison, A. *et al*, *J. Chem. Soc.*, 1961, 3172; 1963, 1158 (*synth, pmr*)
 McNeill, E.A. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 6243.

C₇H₆FeO₃

Fe-00201

(η⁴-1,3-Butadiene)tricarbonyliron, 9Cl

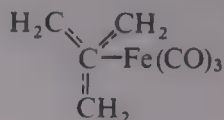
Tricarbonylbutadieneiron. Butadieneiron tricarbonyl
 [12078-32-9]



- M 193.970
 Pale-yellow cryst. (pet. ether). Mp 19°.
 ▶NO4820000.

Mills, O.S. *et al*, *Acta Crystallogr.*, 1963, **16**, 758 (*struct*)
Organomet. Synth., 1965, **1**, 128 (*synth*)
 Koerner von Gustorf, E., *Z. Naturforsch., B*, 1971, **26**, 66 (*synth*)
 Diehl, P. *et al*, *J. Organomet. Chem.*, 1977, **135**, 205 (*pmr*)
 Gibson, D.H. *et al*, *J. Organomet. Chem.*, 1978, **155**, 221 (*cmr*)
 Blake, M.R. *et al*, *J. Chem. Soc., Chem. Commun.*, 1979, 496 (*ms*)
 Lokshin, B.V. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1981, 989 (*ir, raman*)

C₇H₆FeO₃ **Fe-00202**
Tricarbonyl(η⁴-2-methylene-1,3-propanediyl)iron, 9Cl
Tricarbonyl(π,σ-2-methylenetrimethylene)iron, 8Cl. Trimethylenemethanetricarbonyliron
 [12078-33-0]



M 193.970
 Pale-yellow cryst. (pentane). Mp 32.5-33.5° (28.4-29.6°). Bp₁₆ 53-4°.
 Emerson, G.F. *et al*, *J. Am. Chem. Soc.*, 1966, **88**, 3172; 1972, **94**, 2464 (*synth, ir, pmr, cmr*)
 Almenningen, A. *et al*, *Acta Chem. Scand.*, 1969, **23**, 1145 (*ed*)
 Ehrlich, K. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 2464 (*synth, ir, pmr*)
 Magyar, E.S. *et al*, *J. Organomet. Chem.*, 1976, **116**, 99 (*cmr*)
 Finseth, D. *et al*, *J. Phys. Chem.*, 1978, **80**, 1248 (*ir, raman*)

C₇H₆FeO₄ **Fe-00203**
(1,3-Butadien-1-ol)tricarbonyliron, 8Cl
Tricarbonyl[(1,2,3,4-η)-1-hydroxy-1,3-butadiene]iron
 As (η⁴-1-Bromo-1,3-butadiene)tricarbonyliron, Fe-00174 with

X = OH

M 209.969

syn-form

Extremely air-sensitive pale-yellow cryst. Mp 60-3°.
 Bp_{0.0005} 35-40° subl.
Ac: [51187-49-6]. [(η⁴-1,3-Butadien-1-yl)acetate]tricarbonyliron, 9Cl.
 C₉H₈FeO₅ M 252.006
 Yellow liq.
Benzoyl:
 C₁₄H₁₀FeO₅ M 314.077
 Mp 59-60°.
Me ether: [62341-63-3]. *Tricarbonyl[(1,2,3,4-η)-1-methoxy-1,3-butadiene]iron, 10Cl. [1-(1,3-Butadienyl)-methyl ether]tricarbonyliron.*
 C₈H₈FeO₄ M 223.996
 Yellow oil. Bp₁₅ 106-8°.
Trimethylsilyl ether: [62422-40-6]. [(η⁴-1,3-Butadienyl)oxy]trimethylsilane]tricarbonyliron, 10Cl.
 C₁₀H₁₄FeO₄Si M 282.151
 Red oil (green oil). Bp_{0.05} 48°.

anti-form

Ac: Yellow liq.
Benzoyl: Yellow liq.
 DePuy, C.H. *et al*, *J. Chem. Soc., Chem. Commun.*, 1968, 1225; *Tetrahedron Lett.*, 1969, 3989; *J. Am. Chem. Soc.*, 1974, **96**, 5602 (*synth, pmr*)
 Greene, R.N. *et al*, *J. Chem. Soc. (C)*, 1971, 3115 (*pmr*)

Graf, R.E. *et al*, *J. Organomet. Chem.*, 1976, **122**, 377 (*synth, pmr, ms, ir*)
 Tolstikov, G.A. *et al*, *Zh. Obshch. Khim.*, 1976, **46**, 2630; 1980, **50**, 88 (*synth, ir, pmr*)

C₇H₆FeO₄ **Fe-00204**
(1,3-Butadien-2-ol)tricarbonyliron
Tricarbonyl[(1,2,3,4-η)-2-hydroxy-1,3-butadiene]iron
 M 209.969
 Air-sensitive. pK_a 9.24 (48% EtOH).

Ac:

C₉H₈FeO₅ M 252.006

Yellow cryst. Mp 51-2°.

Benzoyl:

C₁₄H₁₀FeO₅ M 314.077

Yellow cryst. Mp 57-8°.

Me ether: [62341-64-4]. *Tricarbonyl[(1,2,3,4-η)-2-methoxy-1,3-butadiene]iron, 10Cl.*

C₈H₈FeO₄ M 223.996

Yellow oil. Bp₁₅ 110°.

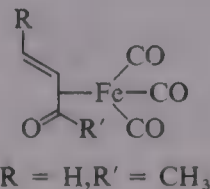
DePuy, C.H. *et al*, *J. Chem. Soc., Chem. Commun.*, 1968, 1225 (*synth, ir, pmr*)

Greene, R.N. *et al*, *J. Chem. Soc. (C)*, 1971, 3115 (*pmr*)

Graf, R.E. *et al*, *J. Organomet. Chem.*, 1976, **122**, 377 (*synth, pmr, ir, ms*)

Pearson, A.J., *Aust. J. Chem.*, 1977, **30**, 407 (*cmr*)

C₇H₆FeO₄ **Fe-00205**
[(O,2,3,4-η)-3-Buten-2-one]tricarbonyliron, 9Cl
(Methyl vinyl ketone)iron tricarbonyl
 [53535-98-1]



R = H, R' = CH₃

M 209.969

Low-melting orange solid (pet. ether). Mp ca. 15°.

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1974, **71**, 271 (*synth, pmr, ir*)

C₇H₆FeO₄ **Fe-00206**
Tetracarbonyl[η²-propene]iron
 As (Bromoethylene)tetracarbonyliron, Fe-00105 with

R = CH₃

M 209.969

Yellow oil. Bp_{0.1} 20°.

Pyrophoric

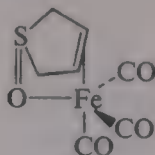
Koerner von Gustorf, E. *et al*, *Z. Naturforsch., B*, 1966, **21**, 42 (*synth, ir, ms*)

Koerner von Gustorf, E. *et al*, *Justus Liebigs Ann. Chem.*, 1967, **707**, 190 (*ms, ir*)

C₇H₆FeO₄S

Fe-00207

Tricarbonyl[(3,4- η)-2,5-dihydrothiophene 1-oxide-O]iron
[59120-16-0]



M 242.029

Orange-brown cryst.; unstable in air and to heat. Mp 78.5-79.5°.

Eekhof, J.H. *et al*, *J. Organomet. Chem.*, 1976, **105**, C35, 1976, **111**, 349 (*synth*, *pmr*, *cmr*, *struct*, *pe*)

Van Santvoort, F.-A.J.J. *et al*, *Acta Crystallogr., Sect. B*, 1977, **33**, 3000 (*struct*)

C₇H₇BrFeO₃

Fe-00208

Bromo[(1,2,3- η)-2-butenyl]tricarbonyliron, 10Cl, 9Cl
Bromotricarbonyl(1-methyl- π -allyl)iron, 8Cl.
Bromotricarbonyl(π -crotyl)iron

[61216-86-2]

As Bromo(η^3 -1-bromo-2-propenyl)tricarbonyliron, Fe-00110 with

R = CH₃, X = Br

M 274.882

Exists as a mixt. of 2 rotational isomers in soln. Yellow-brown cryst. (pentane). Mp 34.5° (32-3°).

Murdoch, H.D. *et al*, *Helv. Chim. Acta*, 1962, **45**, 1927 (*synth*, *ir*)

Noack, K., *Helv. Chim. Acta*, 1962, **45**, 1845 (*ir*)

Heck, R.F. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 2580 (*synth*, *pmr*)

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1971, **33**, 375 (*synth*, *ms*)

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **101**, 121 (*cmr*)

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1976, 1768 (*pmr*)

C₇H₇BrFeO₃

Fe-00209

Bromotricarbonyl[(1,2,3- η)-2-methyl-2-propenyl]iron, 10Cl, 9Cl

Bromotricarbonyl(2-methyl- π -allyl)iron

[61216-80-6]

As Bromo(η^3 -2-bromo-2-propenyl)tricarbonyliron, Fe-00111 with

R = CH₃, X = Br

M 274.882

Brown needles (heptane). Mp 98° dec.

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1971, **33**, 375 (*synth*, *ms*)

Kritskaya, I. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1974, **216**, 567 (*ir*)

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **101**, 121 (*cmr*)

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1976, 1768 (*pmr*)

C₇H₇BrFeO₄

Fe-00210

Bromotricarbonyl[(1,2,3- η)-2-methoxy-2-propenyl]iron, 9Cl
Bromotricarbonyl(2-methoxy- π -allyl)iron

[38834-36-5]

As Bromo(η^3 -2-bromo-2-propenyl)tricarbonyliron, Fe-00111 with

R = OMe, X = Br

M 290.881

Orange cryst. Mp 67°.

Hill, A.E. *et al*, *J. Chem. Soc., Chem. Commun.*, 1972, 574 (*synth*)

C₇H₇ClFeO₃

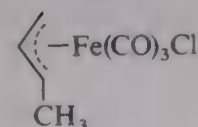
Fe-00211

(1,2,3- η)-2-Butenyltricarbonylchloroiron, 9Cl

Tricarbonylchloro(1-methyl- π -allyl)iron, 8Cl.

η^3 -Crotyltricarbonyliron chloride. η^{1-3} -Butenyltricarbonyliron chloride. Tricarbonylchloro- π -crotyliron

[12287-49-9]



M 230.431

(E)-form

syn-form

Yellow needles (pentane). Mp 34-5°, 58° dec. Bp_{0.01} 20° subl.

Ihrman, K.G. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 3726 (*synth*, *ir*, *pmr*)

Murdoch, H.D. *et al*, *Helv. Chim. Acta*, 1962, **45**, 1927 (*synth*, *ir*)

Noack, K., *Helv. Chim. Acta*, 1962, **45**, 1845 (*ir*)

Heck, R.F. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 2580 (*synth*, *pmr*, *ir*)

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1971, **33**, 375 (*ms*)

Kritskaya, I.I. *et al*, *Dokl. Akad. Nauk SSSR*, 1974, **216**, 567 (*ir*)

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **101**, 121 (*cmr*)

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1976, 1768 (*pmr*)

Olah, G.A. *et al*, *J. Org. Chem.*, 1976, **41**, 2227.

C₇H₇ClFeO₃

Fe-00212

Tricarbonylchloro[(1,2,3- η)-2-methyl-2-propenyl]iron, 9Cl

Tricarbonylchloro(2-methyl- π -allyl)iron, 8Cl. Chlorotricarbonyl(2-methyl- π -allyl)iron

[61216-81-7]

As Bromo(η^3 -2-bromo-2-propenyl)tricarbonyliron, Fe-00111 with

R = CH₃, X = Cl

M 230.431

Yellow needles (pentane). Mp 83-6° dec, 98-9° dec.

Heck, R.F. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 2580 (*synth*, *pmr*)

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1968, **14**, 387 (*synth*, *rev*)

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1971, **33**, 375 (*ms*)

Kritskaya, I. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1974, **216**, 567 (*ir*)

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **101**, 121 (*cmr*)

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1976, 1768 (*pmr*)

C₇H₇ClFeO₄ Fe-00213

Tricarbonylchloro[(1,2,3-η)-2-methoxy-2-propenyl]iron, 9Cl
Tricarbonylchloro(2-methoxy-π-allyl)iron
 [38834-38-7]
 As Bromo(η³-2-bromo-2-propenyl)tricarbonyliron, Fe-00111 with



M 246.430

Yellow cryst. Mp 72°.

Hill, A.E. *et al*, *J. Chem. Soc., Chem. Commun.*, 1972, 574 (synth)

C₇H₇FeIO₃ Fe-00214

[(1,2,3-η)-2-Butenyl]tricarbonyliodoiron
Iodotricarbonyl(1-methyl-π-allyl)iron. Tricarbonyl(π-crotyl)iidoiron
 As Bromo(η³-1-bromo-2-propenyl)tricarbonyliron, Fe-00110 with



M 321.882

Red-brown cryst. (heptane). Mp 50-3° dec.

Murdoch, H.D. *et al*, *Helv. Chim. Acta*, 1962, **45**, 1927 (synth, ir)

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1971, **33**, 375 (synth, ms)

C₇H₇FeIO₃ Fe-00215

Tricarbonyliodo[(1,2,3-η)-2-methyl-2-propenyl]iron, 9Cl
Iodotricarbonyl(2-methyl-π-allyl)iron
 [12287-51-3]
 As Bromo(η³-2-bromo-2-propenyl)tricarbonyliron, Fe-00111 with



M 321.882

Dark-brown needles or dark-red prisms (pentane). Mp 103.5-104° dec. Bp₁ 40° subl.

Plowman, R.A. *et al*, *Z. Naturforsch., B*, 1962, **17**, 575 (synth, ir, pmr)

Heck, R.F. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 2580 (pmr)

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1971, **33**, 375 (ms)

Kritskaya, I. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1974, **216**, 567 (ir)

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **101**, 121 (cmr)

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1976, 1768 (synth, pmr)

C₇H₇FeIO₄ Fe-00216

Tricarbonyliodo[(1,2,3-η)-2-methoxy-2-propenyl]iron, 9Cl
Tricarbonyliodo(2-methoxy-π-allyl)iron
 [38834-37-6]
 As Bromo(η³-2-bromo-2-propenyl)tricarbonyliron, Fe-00111 with



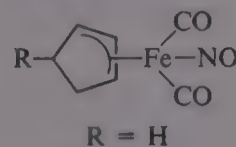
M 337.881

Brown cryst. Mp 57°.

Hill, A.E. *et al*, *J. Chem. Soc., Chem. Commun.*, 1972, 574 (synth)

C₇H₇FeNO₃ Fe-00217

Dicarbonyl[(1,2,3-η)-2-cyclopenten-1-yl]nitrosyliron



M 208.984

Red oil. Bp_{0.005} 60°.

Chaudhari, F.M. *et al*, *J. Chem. Soc. (C)*, 1967, 2255 (synth, pmr, ir)

C₇H₇FeNO₄ Fe-00218

Tetracarbonyl[(dimethylamino)methylene]iron, 9Cl
 [38893-16-2]



M 224.984

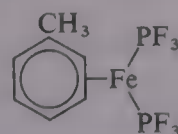
Fawn needles or brownish-red cryst. Reasonably stable to air. Sol. Me₂CO, CH₂Cl₂. Mp 55-6°.

Fong, C.W. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 1100 (synth, ms, ir, pmr)

Hartshorn, A.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1978, 348 (synth)

C₇H₈F₆FeP₂ Fe-00219

[(1,2,3,4,5,6-η)-Methylbenzene]bis(phosphorous trifluoride)-iron, 9Cl
Bis(trifluorophosphine)tolueneiron
 [38720-21-7]



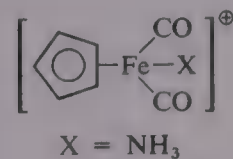
M 323.925

Volatile red liq.

Williams-Smith, D.L. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 4042 (synth, pmr, ms)

C₇H₈FeNO₂⁺ Fe-00220

Amminedicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron(1+), 9Cl



M 193.993 (ion)

Hexafluorophosphate: [52225-44-2].

C₇H₈F₆FeNO₂P M 338.957

No phys. props. reported.

Tetraphenylborate: [12203-82-6].

C₃₁H₂₈BFeNO₂ M 513.225

Yellow microcryst. Sol. CH₂Cl₂, insol. H₂O. Stable in air up to 170°.

Inorg. Synth., 1970, **12**, 35 (synth)

Bodner, G.M., *Inorg. Chem.*, 1974, **13**, 2563 (cmr)

C₇H₉AsFeO₄ Fe-00221

Tetracarbonyl(trimethylarsine)iron, 9Cl, 8Cl
 [25921-46-4]

Me₃AsFe(CO)₄

M 287.914

Colourless cryst. by subl. Mp 124°. Bp 50° subl. in vacuo.

Strohmeier, W. *et al*, *Chem. Ber.*, 1969, **102**, 3613 (*synth*)Legendre, J. *et al*, *Bull. Soc. Chim. Fr.*, 1971, 1998 (*cryst struct*)Bigorgne, M. *et al*, *Spectrochim. Acta, Part A*, 1974, **30**, 1929 (*ir, raman*)C₇H₉FeNO₄

Fe-00222

Tetracarbonyl(trimethylamine)iron

Tetracarbonyl(N,N-dimethylmethanamine)iron, 10Cl

[29863-43-2]

Me₃NFe(CO)₄

M 226.999

Orange-red solid. Mp 51° dec. Dec. in hydrocarbon soln.

Elzinga, J. *et al*, *J. Chem. Soc., Chem. Commun.*, 1977, 705 (*synth, ir, pmr, cmr, ms*)Birenwaig, F. *et al*, *Tetrahedron Lett.*, 1979, 2947 (*synth, ir, pmr, ms*)C₇H₉FeO₄P

Fe-00223

Tetracarbonyl(trimethylphosphine)iron, 9Cl, 8Cl

Trimethylphosphinetetracarbonyliron. Trimethylphosphineiron tetracarbonyl

[18475-02-0]

Me₃PFe(CO)₄

M 243.966

Colourless cryst. by subl. Sublimes at r.t.

Strohmeier, W. *et al*, *Chem. Ber.*, 1969, **102**, 3613 (*synth*)Bigorgne, M. *et al*, *Spectrochim. Acta, Part A*, 1974, **30**, 1929 (*ir, raman*)Flamini, A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1978, 695 (*pe*)Herberhold, M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1979, 654 (*mössbauer*)Grobe, J. *et al*, *Z. Naturforsch., B*, 1981, **36**, 8 (*synth*)C₇H₉FeO₄Sb

Fe-00224

Tetracarbonyl(trimethylstibine)iron, 9Cl, 8Cl

[30230-15-0]

Me₃SbFe(CO)₄

M 334.743

Cryst. (hexane).

Bigorgne, M. *et al*, *J. Organomet. Chem.*, 1970, **24**, 211 (*synth*)Legendre, J. *et al*, *Bull. Soc. Chim. Fr.*, 1971, 1998 (*cryst struct*)Bigorgne, M. *et al*, *Spectrochim. Acta, Part A*, 1974, **30**, 1929 (*ir, raman*)C₇H₉FeO₇P

Fe-00225

Tetracarbonyl(trimethyl phosphite-P)iron, 9Cl

Tetracarbonyl(phosphorous acid)iron trimethyl ester, 8Cl

[14878-71-8]

(MeO)₃PFe(CO)₄

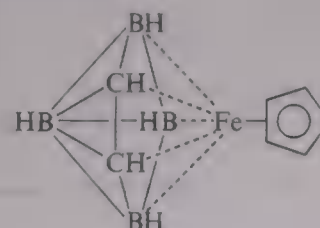
M 291.965

Bright-yellow cryst. Mp 45-6°. Bp_{0.01} 30° subl.Cotton, J.D. *et al*, *Aust. J. Chem.*, 1969, **22**, 2673 (*synth, ir, raman, ms, pmr*)Udovich, C.A., *Inorg. Chem.*, 1969, **8**, 1066 (*stereochem*)Mosbo, J.A. *et al*, *J. Magn. Reson.*, 1972, **8**, 243 (*pmr*)Conder, H.L. *et al*, *J. Organomet. Chem.*, 1974, **67**, 93 (*synth*)Darensbourg, D.J. *et al*, *Inorg. Chem.*, 1974, **13**, 2135 (*ir*)Greatrex, R. *et al*, *J. Organomet. Chem.*, 1976, **114**, 199 (*mössbauer*)Graaf, J.L. *et al*, *Organometallics*, 1982, **1**, 837 (*ir*)C₇H₁₁B₄Fe

Fe-00226

(η⁵-2,4-Cyclopentadien-1-yl)((2,3,4,5,6-η)-hexahydro-2,3-dicarbaheborato(2-))iron, 9Cl

[38930-35-7]



M 194.251

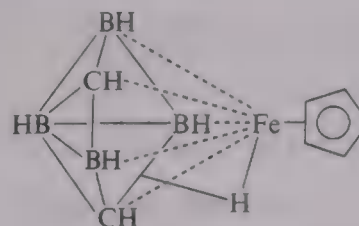
Brown cryst. Paramagnetic.

Sneddon, L.G. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 7161; 1973, **95**, 6623 (*synth, ms, pmr, nmr*)C₇H₁₂B₄Fe

Fe-00227

(η⁵-2,4-Cyclopentadien-1-yl)((2,3,4,5,6-η)-heptahydro-2,5-dicarbaheborato(1-)-H^μ)iron, 9Clπ-Cyclopentadienyliiron-2,4-C₂B₄H₆ hydride

[51177-77-6]



M 195.259

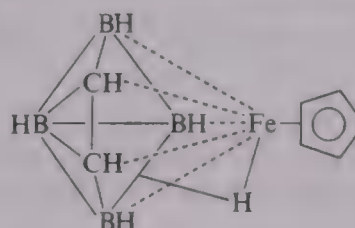
Red-orange.

Sneddon, L.G. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 6623 (*synth, pmr, ms, nmr, ir*)C₇H₁₂B₄Fe

Fe-00228

(η⁵-2,4-Cyclopentadien-1-yl)((2,3,4,5,6-η)-hexahydro-2,3-dicarbaheborato(2-))hydroiron, 9Cl(η⁵-2,4-Cyclopentadien-1-yl)((2,3,4,5,6-η)-heptahydro-4,5-dicarbaheborato(1-)-H^μ)iron, 9Cl

[38980-34-6]



M 195.259

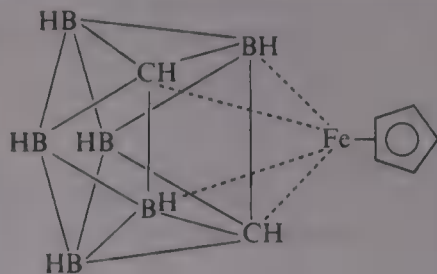
Diamagnetic. Orange solid. Sublimes.

Sneddon, L.G. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 7161; 1973, **95**, 6623 (*synth, ms, pmr, nmr*)

C₇H₁₃B₆Fe

Fe-00229

(η^5 -2,4-Cyclopentadien-1-yl)((1,3,6,8- η)-octahydro-1,8-dicarbaoctaborato(2-))iron, 9Cl
4-(η -Cyclopentadienyl)-4,1,8-FeC₂B₆H₈
[42808-85-5]



M 217.887

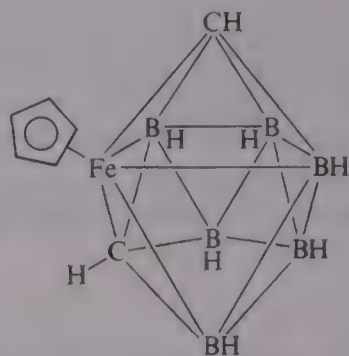
Red cryst. (hexane). Mp 132-3°. Paramagnetic. Reduced to a diamagnetic purple Fe(II) deriv.

Evans, W.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 4565 (*synth*, *ms*, *uv*, *ir*, *polarog*, *pmr*, *nmr*)

C₇H₁₃B₆Fe

Fe-00230

(η^5 -2,4-Cyclopentadien-1-yl)((3,5,6,7,8- η)-octahydro-5,6-dicarbaoctaborato(2-))iron, 9Cl
1-(η^5 -Cyclopentadienyl)-1,4,6-FeC₂B₆H₈. 4,6- π -Cyclopentadienyliron-C₂B₆H₈
[42968-39-8]



M 217.887

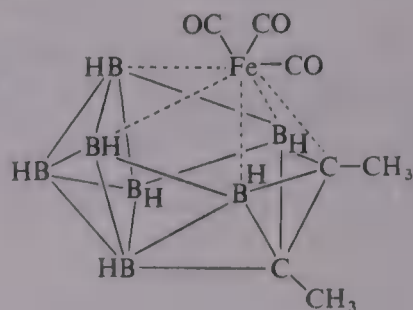
Brown cryst. (hexane). Paramagnetic. Reduced to a diamagnetic Fe(II) species.

Evans, W.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 4565 (*synth*, *ms*, *uv*, *ir*, *polarog*, *pmr*, *nmr*)

C₇H₁₃B₇FeO₃

Fe-00231

Tricarbonyl[η^5 -heptahydro-C, C'-dimethyldicarbanonaborato(2-)]iron, 10Cl
2,1,4-(Tricarbonyliron)-1,4-dimethyl-C₂B₇H₇
[64103-53-3]



M 276.695

Air-stable, light-sensitive bright-yellow cryst. (hexane). Bp_{0.00001} 25° subl.

Maxwell, W.M. *et al*, *Inorg. Chem.*, 1977, **16**, 3094 (*synth*, *ir*, *ms*, *nmr*, *pmr*)

C₇H₁₄B₉Fe

Fe-00232

(η^5 -2,4-Cyclopentadien-1-yl)((7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-))iron, 9Cl
 π -Cyclopentadienyliron- π -(3)-1,2-B₉C₂H₁₁
[12300-49-1]

As (η^5 -2,4-Cyclopentadien-1-yl)[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]ferrate-(1-), Fe-00234 with

n = 0

M 251.325

Purple needles (C₆H₆/cyclohexane). Mp 181-2°. Paramagnetic.

Zalkin, A. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 3988 (*cryst struct*)

Hawthorne, M.F. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 879 (*synth*, *ir*, *uv*, *polarog*, *nmr*)

Herber, R.H., *Inorg. Chem.*, 1969, **8**, 174 (*mössbauer*)

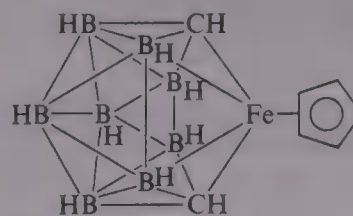
Wiersema, R.J. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 761 (*cmr*, *nmr*)

Ammeter, J.H., *J. Magn. Reson.*, 1978, **30**, 299 (*esr*)

C₇H₁₅B₈Fe

Fe-00233

(η^5 -2,4-Cyclopentadien-1-yl)((5,6,7,8,9,10- η)-decahydro-6,9-dicarbadeccaborato(2-))iron, 10Cl
1,2,3- π -Cyclopentadienyliron-C₂B₈H₁₀
[42769-15-3]



Proposed structure

M 241.523

Red-brown needles (CH₂Cl₂/hexane). Mp 275-7°.

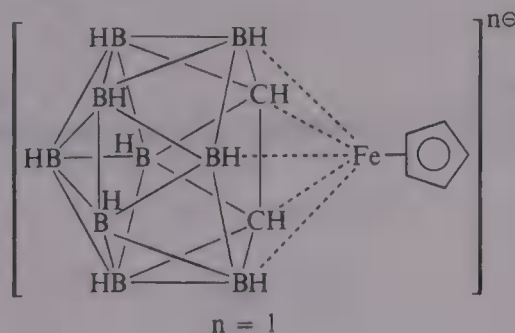
Paramagnetic. May be reduced to diamagnetic species.

Evans, W.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 4565 (*synth*, *uv*, *ir*, *ms*, *polarog*)

C₇H₁₆B₉Fe[⊖]

Fe-00234

(η^5 -2,4-Cyclopentadien-1-yl)((7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-))ferrate(1-), 9Cl
[Undecahydrodicarbadeccaborato(2-)]cyclopentadienylferrate(2-)
[37185-23-2]



n = 1

M 253.340 (ion)

Diamagnetic.

Tetramethylammonium salt:

C₁₁H₂₈B₉FeN M 327.486

Orange plates (EtOH). Mp 158°.

Hawthorne, M.F. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 879 (*synth*, *pmr*, *uv*, *ir*)

C₇H₁₆B₉Fe **Fe-00235**

(η^5 -2,4-Cyclopentadien-1-yl)(7,8,9,10,11- η)-undecahydro-7,9-dicarbaundecaborato(2-)]iron
 π -Cyclopentadienyl-(π -7,9-B₉C₂H₁₁)iron

[40958-61-0]

M 253.340

Green. Paramagnetic. Can be reduced to diamagnetic Fe(II) species.

Dustin, D.F. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 1109 (*synth*, *pmr*, *ir*, *nmr*)

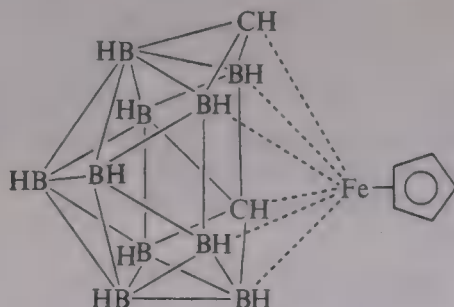
Wiersema, R.J. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 761 (*esr*)

C₇H₁₇B₁₀Fe **Fe-00236**

(η^5 -2,4-Cyclopentadien-1-yl)(η^6 -dodecahydrodicarbododecaborato(2-)]iron, κ Cl

(η^5 -2,4-Cyclopentadien-1-yl)((7,8,9,10,11,12- η)-dodecahydro-7,9-dicarbododecaborato(2-)]iron

[41077-34-3]



M 265.158

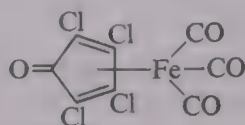
Paramagnetic. Violet. $\mu_{\text{eff}} = 2.12\text{BM}$. Easily reduced to an orange diamagnetic anionic Fe(II) species.

Dustin, D.F. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 1109 (*synth*, *polarog*, *pmr*, *nmr*, *uv*, *ir*)

C₈Cl₄FeO₄ **Fe-00237**

Tricarbonyl[(2,3,4,5- η)-2,3,4,5-tetrachloro-2,4-cyclopentadien-1-one]iron, κ Cl

[53336-51-9]



M 357.745

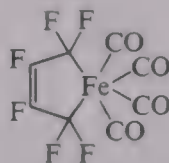
Yellow-orange cryst. (pentane). Mp 101-2°.

Krespan, C.G., *J. Org. Chem.*, 1975, **40**, 261 (*synth*, *ir*)

C₈F₆FeO₄ **Fe-00238**

Tetracarbonyl(1,1,2,3,4,4-hexafluoro-2-butene-1,4-diyl)iron
 Tetracarbonyl(1,1,2,3,4,4-hexafluoro-2-butenylene)iron

[15096-22-7]



M 329.923

Colourless or greenish-yellow cryst. (pet. ether). Mp 14-16°, 61-61.5°, 77°. Subl. at r.t. *in vacuo*.

Watterson, K.F. *et al*, *Chem. Ind. (London)*, 1959, 991 (*ir*)

Hitchcock, P.B. *et al*, *J. Chem. Soc., Chem. Commun.*, 1967, 242 (*struct*)

Hunt, R.L. *et al*, *J. Chem. Soc. (A)*, 1967, 982 (*synth*, *ir*, *nmr*)

Fields, R. *et al*, *J. Chem. Soc. (A)*, 1970, 1969 (*ir*, *nmr*)

C₈F₆FeO₆ **Fe-00239**

Tetracarbonylbis(trifluoroacetyl)iron, 10Cl

As Tetracarbonylbis(trifluoromethyl)iron, Fe-00094 with

R = —COCF₃

M 361.922

cis-form [76136-68-0]

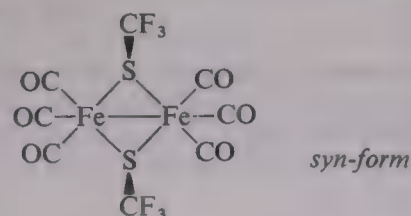
Pale-yellow microcryst. (CH₂Cl₂/hexane). Mp 43-4°.

Hensley, D.W. *et al*, *Inorg. Chem.*, 1981, **20**, 645 (*synth*, *ir*, *nmr*, *cmr*)

C₈F₆Fe₂O₆S₂ **Fe-00240**

Hexacarbonylbis[μ -(trifluoromethanethiolato)]diiron, κ Cl

[34965-22-5]



M 481.889

Exists as an anti:syn (12:1) mixt. Red cryst. (CH₂Cl₂/hexane). Mp 77°. Bp_{0.01} 30° subl.

Davidson, J.L. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 107 (*synth*, *ir*)

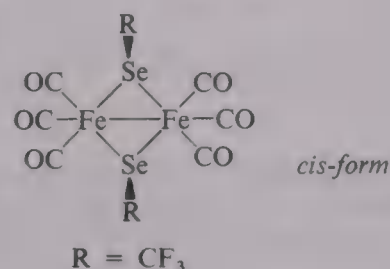
Davidson, J.L. *et al*, *J. Organomet. Chem.*, 1972, **46**, C47 (*nmr*)

Chaudhuri, M.K. *et al*, *J. Organomet. Chem.*, 1976, **116**, 323 (*synth*, *nmr*, *ir*, *ms*)

C₈F₆Fe₂O₆Se₂ **Fe-00241**

Hexacarbonylbis[μ -(trifluoromethaneselenolato)]diiron, κ Cl

[38498-00-9]

R = CF₃

M 575.689

Dark-red foul-smelling, feathery cryst. (pentane or CH₂Cl₂/hexane). Mp 64°. Subl. *in vacuo*. Mixt. of *cis*- and *trans*-isomers.

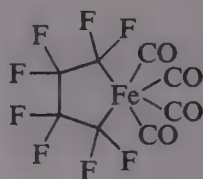
Rosenbuch, P. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 1963 (*synth*, *ir*)

Chaudhuri, M.K. *et al*, *J. Organomet. Chem.*, 1976, **116**, 323 (*synth*, *nmr*, *ms*, *ir*)

C₈F₈FeO₄

Fe-00242

Tetracarbonyl(1,1,2,2,3,3,4,4-octafluoro-1,4-butanediyl)iron
Tetracarbonyl(octafluorotetramethylene)iron
 [27658-68-0]



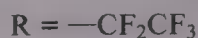
M 367.920

Snow-white cryst. Mp 77-8°. Sublimes. Dec. at 193°.

Hoehn, H.H. *et al*, *J. Chem. Soc.*, 1961, 2738 (*synth, ir, nmr*)Manuel, T.A. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 249 (*synth, ir, nmr*)Fields, R. *et al*, *J. Chem. Soc. (A)*, 1970, 1964 (*synth, ir, nmr*)C₈F₁₀FeO₄

Fe-00243

Tetracarbonylbis(pentafluoroethyl)iron, 10Cl
Bis(pentafluoroethyl)iron tetracarbonyl
 As Tetracarbonylbis(trifluoromethyl)iron, Fe-00094 with



M 405.917

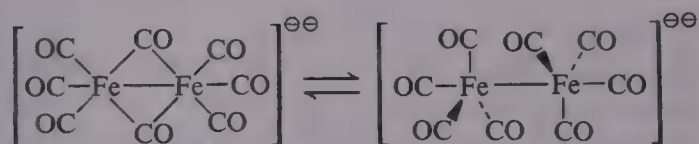
cis-form [76189-74-7]Pale-yellow cryst. Mp 62-63.5°. Bp_{0.1} 25° subl.*trans-form* [76136-71-5]

No phys. props. reported.

King, R.B. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 3604 (*synth, nmr, ir*)Pitcher, E. *et al*, *J. Chem. Phys.*, 1962, **36**, 124 (*nmr*)Pitcher, E. *et al*, *Spectrochim. Acta*, 1962, **18**, 585 (*ir*)C₈Fe₂O₈²⁻

Fe-00244

Octacarbonyldiferrate(2-), 9Cl, 8Cl
 [25463-33-6]



M 335.777 (ion)

May have bridged-nonbridged equilib.

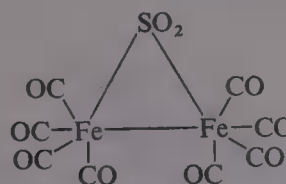
Bis(tetraethylammonium) salt: [26024-88-4].C₂₄H₄₀Fe₂N₂O₈ M 596.283

Brick-red cryst.

Farmery, K. *et al*, *J. Chem. Soc. (A)*, 1969, 2339 (*synth, ir, mössbauer*)Onaka, S. *et al*, *Inorg. Chem.*, 1976, **15**, 915 (*raman, struct*)Sumner, C.E. *et al*, *Organometallics*, 1982, **1**, 1350.C₈Fe₂O₁₀S

Fe-00245

Octacarbonyl-μ-sulfonyldiiron, 8Cl
μ-S-Sulfinatooctacarbonyldiiron
 [31659-17-3]

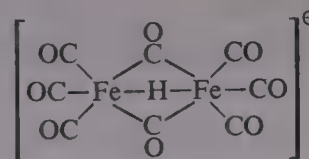


M 399.836

Yellow cryst. (CH₂Cl₂). Mp 100° dec., 120-5° dec.Braye, E.H. *et al*, *Angew. Chem.*, 1963, **75**, 345 (*synth, ir*)Meunier-Piret, J. *et al*, *Bull. Soc. Chim. Belg.*, 1967, **76**, 374 (*struct*)Field, D.S. *et al*, *J. Organomet. Chem.*, 1971, **27**, 221 (*synth, ir*)C₈HFe₂O₈⁻

Fe-00246

Di-μ-carbonylhexacarbonyl-μ-hydrodiferrate(1-), 9Cl, 8Cl
Octacarbonylhydrodiferrate(1-)
 [20960-30-9]



M 336.785 (ion)

Reducing agent, e.g. for conversion of enamines to amines.

Na salt: [60308-01-2].C₈HFe₂NaO₈ M 359.775

Reddish-brown in soln.

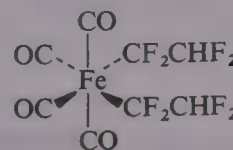
Tetraethylammonium salt: [26062-33-9].C₁₆H₂₁Fe₂NO₈ M 467.038

Mustard-yellow solid. V. air-sensitive. Sometimes pyrophoric.

Farmery, K. *et al*, *J. Chem. Soc. (A)*, 1967, 2339 (*synth, mössbauer*)Mitsudo, T. *et al*, *Bull. Chem. Soc. Jpn.*, 1975, **48**, 1506 (*use*)Collman, J.P. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 4685 (*synth, ir, pmr, cryst struct*)Onaka, S. *et al*, *Inorg. Chem.*, 1976, **15**, 915 (*raman*)Sumner, C.E. *et al*, *Organometallics*, 1982, **1**, 1350 (*synth*)Fieser, M. *et al*, *Reagents for Organic Synthesis*, Wiley, 1967-83, **7**, 340 (*synth, use*)C₈H₂F₈FeO₄

Fe-00247

Tetracarbonylbis(1,1,2,2-tetrafluoroethyl)iron, 9Cl, 8Cl



M 369.936

cis-form [14875-41-3]

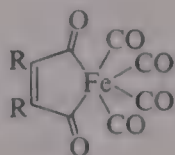
Extremely volatile v. pale-yellow cryst. Mp 49°.

Treichel, P.M. *et al*, *Adv. Organomet. Chem.*, 1964, **1**, 143 (*synth*)Churchill, M.R., *Inorg. Chem.*, 1967, **6**, 185 (*cryst struct*)Pauling, L., *Proc. Natl. Acad. Sci. USA*, 1978, **75**, 569.

C₈H₂FeO₆

Fe-00248

Tetracarbonyl(1,4-dioxo-2-butene-1,4-diyl)iron, κ^1
Tetracarbonyl[(1,4- η)maleoyl]iron. Tetracarbonyl-ferra-3-cyclopentene-2,5-dione
 [56811-01-9]



R = H

M 249.947

Orange-red cubes (hexane). Mp 113-6°. Bp_{0.001} 50° subl.Case, J.R. *et al*, *J. Chem. Soc., Chem. Commun.*, 1959, 150 (*synth*)Grevels, F.W. *et al*, *J. Organomet. Chem.*, 1975, **91**, 341 (*ir*, *pmr*, *synth*)Hoffmann, K. *et al*, *J. Organomet. Chem.*, 1977, **128**, 399 (*ir*, *pmr*, *cmr*, *struct*)C₈H₃FeNO₃

Fe-00249

**Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-carbonitri-
 le]iron, κ^1**
Tricarbonyl(cyanocyclobutadiene)iron
 [64121-44-4]

As (η^4 -1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with

R = CN

M 216.964

Yellow cryst. Mp 39°.

Pruitt, P.L. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1977, 907 (*synth*, *pmr*)C₈H₄FeO₄

Fe-00250

**Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-carboxal-
 dehyde]iron, κ^1**
Tricarbonyl(formylcyclobutadiene)iron
 [33056-62-1]

As (η^4 -1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with

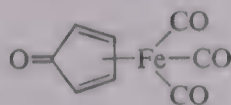
R = CHO

M 219.964

Orange needles. Mp 41-4°. Bp_{1.0} 83-7°.Fitzpatrick, J.D. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 3254 (*synth*)Nunn, E.E., *Aust. J. Chem.*, 1976, **29**, 2549 (*synth*, *ir*, *pmr*)Pruitt, P.L. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1977, 907 (*pmr*)C₈H₄FeO₄

Fe-00251

Tricarbonyl[(2,3,4,5- η)-2,4-cyclopentadien-1-one]iron, κ^1
Cyclopentadienoneiron tricarbonyl
 [32647-45-3]



M 219.964

Bright-yellow cryst. (C₆H₆). Mp 114-6°. Forms 1:1 addition compounds with HX.Green, M.L.H. *et al*, *J. Chem. Soc.*, 1960, 989 (*ir*, *pmr*)Weiss, E. *et al*, *Chem. Ber.*, 1962, **95**, 1170 (*synth*)Hoffmann, K. *et al*, *J. Organomet. Chem.*, 1977, **128**, 237 (*struct*, *ir*, *pmr*, *cmr*)C₈H₄FeO₅

Fe-00252

**Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-carboxylic
 acid]iron, κ^1**
Tricarbonyl(carboxycyclobutadiene)iron
 [52571-39-8]

As (η^4 -1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with

R = COOH

M 235.964

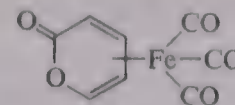
Yellow cryst. (CCl₄ or CH₂Cl₂). Mp 151-2°. p*K*_a 5.01 (50% EtOH, 20°).*Me ester*: [52571-40-1].C₉H₆FeO₅ M 249.990Yellow oil. Bp_{1.2} 34-8°.*Amide*: [64121-43-3].C₈H₅FeNO₄ M 234.979Yellow cryst. (CHCl₃). Mp 123-4°.*Chloride*: [64121-42-2].C₈H₃ClFeO₄ M 254.409

Orange oil.

Agar, J. *et al*, *J. Org. Chem.*, 1974, **39**, 3451 (*synth*, *pmr*, *ir*)Stierle, D. *et al*, *J. Organomet. Chem.*, 1974, **72**, 221 (*synth*, *pmr*, *ir*)Pruitt, P.L. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1977, 907 (*synth*, *pmr*)C₈H₄FeO₅

Fe-00253

Tricarbonyl[(3,4,5,6- η)-2H-pyran-2-one]iron, κ^1 , κ^1
*Tricarbonyl[(3,4,5,6- η)-1-oxacyclohexa-3,5-dien-2-o-
 ne]iron. (α -Pyrone)tricarbonyliron*
 [12256-92-7]

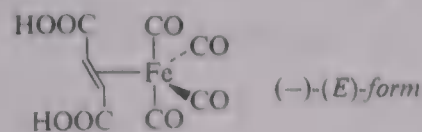


M 235.964

Yellow cryst. (hexane/Et₂O). Mp 140-2°.De Puy, C.H. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 4070 (*synth*, *ir*, *pmr*, *ms*)Haltiwanger, R.C. *et al*, *Cryst. Struct. Commun.*, 1982, **11**, 273; *CA*, **97**, 47634 (*struct*)C₈H₄FeO₈

Fe-00254

[(2,3- η)-2-Butene-1,4-dioic acid]tetracarbonyliron
 [12287-58-0]



M 283.962

(+)-(E)-form [12181-75-8]Yellow cryst. (Me₂CO). Mp 137-40° dec. [α]_D²⁵ +587° (c, 0.921 in Me₂CO).*Brucine salt*: [12182-32-0]. Yellow powder (EtOH/Me₂CO). Mp 133-6° dec. [α]_D²⁵ +155° (c, 0.956 in Me₂CO).*Di-Me ester*: [12287-98-8].C₁₀H₈FeO₈ M 312.015

Bright-yellow needles (MeOH). Mp 134-6° dec. $[\alpha]_D^{25} +541^\circ$.

Dimethyl ester: Yellow cryst. (hexane). Mp 152° dec. $[\alpha]_D^{20} +306^\circ$ (c, 0.25 in CHCl₃).

(-)-(E)-form [12287-58-0]

Yellow cryst. (Me₂CO). Mp 138-40° dec. $[\alpha]_D^{25} -593^\circ$ (c, 0.848 in Me₂CO). This enantiomer is descr. as the (R,R)-form in the original paper but according to the now generally accepted Schögl convention, it is (S,S)-.

Brucine salt: [12182-31-9]. Yellow microcryst. (EtOH/Me₂CO). $[\alpha]_D^{25} -203^\circ$ (c, 1.26 in EtOH).

Dimethyl ester: Yellow needles (hexane). Mp 162° dec. $[\alpha]_D^{20} -350^\circ$ (c, 0.25 in CHCl₃).

(±)-(E)-form

(Fumaric acid)iron tricarbonyl. Tetracarbonyl(fumaric acid)iron

Bright-yellow cryst. (Me₂CO). Mp 155° dec.

Di-Me ester: [33248-78-1]. Tetracarbonyl[(2,3-η)-dimethyl 2-butenedioate]iron, 10Cl. Fine pale-yellow needles (Me₂CO). Mp 137° dec.

Di-Et ester:

C₁₂H₁₂FeO₈ M 340.069
Mp 38-39.5°.

(Z)-form [12287-57-9]

Tetracarbonyl(maleic acid)iron. (Maleic acid)iron tetracarbonyl

Yellow prisms (Me₂CO). Mp 150° dec.

Mono-Me ester:

C₉H₆FeO₈ M 297.989

Yellow prisms (C₆H₆). Mp 93° dec.

Di-Me ester: [12287-97-7]. Yellow needles. Mp 36-7°. Bp_{0.01} 35° subl.

Anhydride: [12287-55-7]. Tetracarbonyl[(3,4-η)-2,5-furandione]iron, 9Cl. Tetracarbonyl(maleic anhydride)iron.

C₈H₂FeO₇ M 265.947

Bright-yellow needles (Me₂CO). Mp 148° dec.

Imide: Tetracarbonyl[(3,4-η)-2,5-pyrrolidinedione]iron. Tetracarbonyl(maleimide)iron.

C₈H₃FeNO₆ M 264.962

Yellow cryst. (Me₂CO). Mp 159° dec.

Collins, R.L. *et al*, *J. Chem. Phys.*, 1963, **39**, 3433 (mössbauer)

Weiss, E. *et al*, *Helv. Chim. Acta*, 1963, **27**, 288 (synth, ir, pmr)

Paiano, G. *et al*, *Gazz. Chim. Ital.*, 1967, **97**, 265 (resoln)

Pedone, C. *et al*, *Acta Crystallogr.*, 1967, **23**, 759 (cryst struct)

Pedone, C. *et al*, *Inorg. Chem.*, 1968, **7**, 2614 (cryst struct, abs config)

Musco, A. *et al*, *Inorg. Chim. Acta.*, 1971, **5**, 157 (cd)

Schurig, V., *Tetrahedron Lett.*, 1976, 1269; 1977, 3977 (resoln, pmr)

Grevels, F.W. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 4069 (cmr)

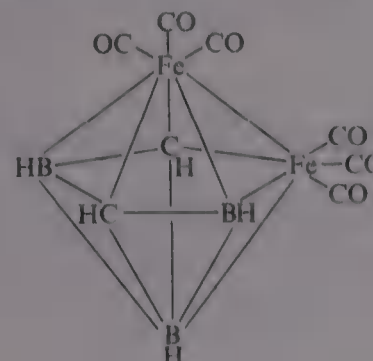
C₈H₅B₃Fe₂O₆

Fe-00255

Hexacarbonyl[μ-(1,4,5-η:2,3,4,5-η)-pentahydro-2,4-dicarbapentaborato(2-)]diiron, 9Cl

1,2,3,5-(Hexacarbonyldiiron)-C₂B₃H₅

[59421-56-0]



M 341.248

Orange liq.

Miller, V.R. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 3090 (synth, ir, pmr, nmr)

C₈H₅ClFeO₃

Fe-00256

Tricarbonyl[(1,2,3,4-η)-1-(chloromethyl)-1,3-cyclobutadiene]iron, 10Cl

[64121-49-9]

As (η⁴-1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with

R = CH₂Cl

M 240.426

Fitzpatrick, J.D. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 3254 (synth)

Pruitt, P.L. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1977, 907 (pmr)

Gmelins Handbuch der Anorg. Chem., 1981, **B7**, 28, 44 (synth, pmr)

C₈H₅F₃FeO₂

Fe-00257

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(trifluoromethyl)iron, 9Cl

σ-Trifluoromethyl-π-cyclopentadienyliron dicarbonyl

[52409-72-0]

As Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(difluorophosphinothioyl-P)iron, Fe-00189 with

L = CF₃

M 245.969

Pale-yellow cryst. (pentane). Mp 137-9°.

King, R.B. *et al*, *J. Organomet. Chem.*, 1964, **2**, 15 (synth, ir, pmr, nmr)

C₈H₅FeNO₂

Fe-00258

Dicarbonyl(cyano-C(η⁵-2,4-cyclopentadien-1-yl)iron, 9Cl

Cyano(η⁵-cyclopentadienyl)dicarbonyliron. Cyclopentadienyldicarbonyliron cyanide

[12152-37-3]

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, Fe-00173 with

X = CN

M 202.980

Yellow needles (CHCl₃/Et₂O). Mp 120° dec.

Having problems with locating a compound? Have you checked the indexes?

Piper, T.S. *et al*, *J. Inorg. Nucl. Chem.*, 1955, **1**, 165 (*synth*, *ir*)
 Gansow, O.A. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 3406 (*ir*, *cmr*)
 Dombek, B.D. *et al*, *Inorg. Chim. Acta*, 1973, **7**, 345 (*synth*, *ir*, *pmr*)
 Kristoff, J.S. *et al*, *Inorg. Chem.*, 1973, **12**, 1788 (*synth*, *ir*)
 Long, G.J. *et al*, *Inorg. Chem.*, 1978, **17**, 486 (*mössbauer*)
 Angelici, R.J. *et al*, *Inorg. Chem.*, 1979, **18**, 1231 (*synth*)

C₈H₅FeNO₂S**Fe-00259****Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(thiocyanato-*N*)iron, 9Cl**

Dicarbonyl-π-cyclopentadienyl(isothiocyanato)iron, 8Cl.
(η⁵-Cyclopentadienyl)dicarbonyl(isothiocyanato)iron.
Cyclopentadienyldicarbonyliron isothiocyanate
 [12317-60-1]

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron,
 Fe-00173 with



M 235.040

Formed by isom. of Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(thiocyanato-*S*)iron, Fe-00260. Yellow cryst.
 (CH₂Cl₂/pentane). Mp 119-21°.

Sloan, T.E. *et al*, *Inorg. Chem.*, 1968, **7**, 1268 (*synth*, *ir*, *pmr*)
 Busetto, L. *et al*, *Inorg. Chem.*, 1971, **10**, 78 (*synth*)
 Meyer, T.J. *et al*, *Inorg. Chem.*, 1971, **10**, 1673 (*synth*)
 Alway, D.G. *et al*, *J. Organomet. Chem.*, 1975, **99**, C52 (*isom*, *ir*)
 Anderson, S.T. *et al*, *J. Chem. Soc., Chem. Commun.*, 1975, 48 (*nmr*)
 Long, G.J. *et al*, *Inorg. Chem.*, 1978, **17**, 486 (*mössbauer*)
 Berndt, A.F. *et al*, *J. Organomet. Chem.*, 1980, **184**, 211 (*cryst struct*)

C₈H₅FeNO₂S**Fe-00260****Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(thiocyanato-*S*)iron, 9Cl**

(η⁵-Cyclopentadienyl)dicarbonyl(thiocyanato)iron.
Cyclopentadienyldicarbonyliron thiocyanate
 [12317-59-8]

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron,
 Fe-00173 with



M 235.040

Dark-red cryst. (Et₂O/pentane). Mp 36-40°. Isomerises
 on melting to Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)-
 (thiocyanato-*N*)iron, Fe-00259.

Sloan, T.E. *et al*, *Inorg. Chem.*, 1968, **7**, 1268 (*synth*, *ir*, *pmr*)
 Meyer, T.J. *et al*, *Inorg. Chem.*, 1971, **10**, 1673 (*synth*)
 Williams, W.E. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1329 (*synth*)
 Alway, D.G. *et al*, *J. Organomet. Chem.*, 1975, **99**, C52 (*isom*, *ir*)
 Anderson, S.T. *et al*, *J. Chem. Soc., Chem. Commun.*, 1975, 48 (*nmr*)
 Long, G.J. *et al*, *Inorg. Chem.*, 1978, **17**, 486 (*mössbauer*)

C₈H₅FeNO₂Se**Fe-00261****Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(selenocyanato-*Se*)iron, 9Cl**

Cyclopentadienyldicarbonyliron selenocyanate
 [33179-83-8]

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron,
 Fe-00173 with



M 281.940

Dark-brown solid (CH₂Cl₂/hexane). Mp 52-3°.

Jennings, M.A. *et al*, *J. Organomet. Chem.*, 1968, **14**, 231 (*synth*, *ir*)

Long, G.J. *et al*, *Inorg. Chem.*, 1978, **17**, 486 (*mössbauer*)

C₈H₅FeNO₃**Fe-00262****Dicarbonyl(cyanato-*N*)(η⁵-2,4-cyclopentadien-1-yl)iron, 9Cl**

Dicarbonyl-π-cyclopentadienyl(isocyanato)iron, 8Cl.
(η⁵-Cyclopentadienyl)dicarbonyl(isocyanato)iron.
Cyclopentadienyldicarbonyliron isocyanate
 [32660-69-8]

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron,
 Fe-00173 with



M 218.979

Light-red needles (Et₂O). Mp 98°.

Angelici, R.J. *et al*, *Inorg. Chem.*, 1971, **10**, 868 (*synth*)

McPhail, A.T. *et al*, *J. Chem. Soc. (A)*, 1971, 205 (*synth*, *ir*, *pmr*)

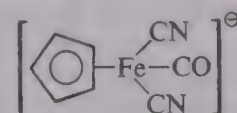
Dombek, B.D. *et al*, *Inorg. Chim. Acta*, 1973, **7**, 345 (*synth*)

Williams, W.E. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1329 (*synth*)

Long, G.J. *et al*, *Inorg. Chem.*, 1978, **17**, 486 (*mössbauer*)

C₈H₅FeN₂O[⊖]**Fe-00263****Carbonylbis(cyano-*C*)(η⁵-2,4-cyclopentadien-1-yl)fer-
rate(1-), 10Cl**

Carbonyldicyano-π-cyclopentadienyliron(1-). (η⁵-Cyclopentadienyl)carbonyldicyanoiron(1-). (η⁵-Cyclopentadienyl)carbonylbis(cyano)iron(1-)



M 200.987 (ion)

Precursor for isonitrile complexes.

K salt: [34802-15-8].

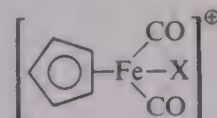
C₈H₅FeKN₂O M 240.086Golden-brown cryst. (EtOH). Sol. H₂O, insol. CHCl₃.

Coffey, C.E., *J. Inorg. Nucl. Chem.*, 1963, **25**, 179 (*synth*, *ir*, *use*)

Dineen, J.A. *et al*, *J. Organomet. Chem.*, 1974, **71**, 77 (*synth*, *ir*, *pmr*, *use*)

C₈H₅FeO₂S[⊕]**Fe-00264****(Carbonylthioyl)dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron-(1+), 9Cl**

Dicarbonyl-π-cyclopentadienyl(thiocarbonyl)iron(1+).
(η⁵-Cyclopentadienyl)dicarbonyl(thiocarbonyl)-iron(1+)



M 221.033 (ion)

Hexafluorophosphate: [33154-56-2].

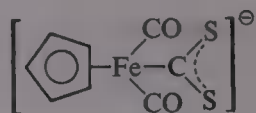
C₈H₅F₆FeO₂PS M 365.997Pale-yellow cryst. (Me₂CO/Et₂O). Darkens 190°.

Tetraphenylborate:

C₃₂H₂₅BFeO₂S M 540.265Yellow cryst. (Me₂CO).

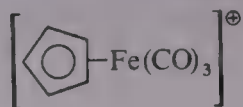
Busetto, L. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 3283 (*synth, ir*)
 Busetto, L. *et al*, *J. Organomet. Chem.*, 1969, **18**, 213 (*synth, ir*)
Inorg. Synth., 1977, **17**, 100 (*synth, ir, pmr*)

C₈H₅FeO₂S₂[−] **Fe-00265**
Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(dithiocarboxylato)-
ferrate(1−), 9Cl



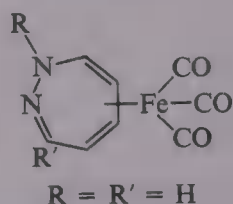
M 253.093 (ion)
K salt: [59654-60-3].
 C₈H₅FeKO₂S₂ M 292.192
 Dark-red. Not obt. pure.
Hg(2+) salt: [59654-68-1].
 C₁₆H₁₀Fe₂HgO₄S₄ M 706.777
 Dec. >0°.
 Ellis, J.E. *et al*, *Inorg. Chem.*, 1976, **15**, 2031 (*synth, ir*)

C₈H₅FeO₃⁺ **Fe-00266**
Tricarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron(1+), 9Cl
,Cyclopentadienyltricarbonyliron(1+)
[32660-74-5]



M 204.973 (ion)
Tetraphenylborate: [31781-41-6].
 C₃₂H₂₅BFeO₃ M 524.205
 Fine-yellow cryst. (Me₂CO). Mp >184° dec.
Tetrafluoroborate: [12244-69-8].
 C₈H₅BF₄FeO₃ M 291.776
 Light-yellow cryst.
Hexafluorophosphate: [38834-26-3].
 C₈H₅F₆FeO₃P M 349.937
 Pale-yellow cryst. (Me₂CO/Et₂O). Dec. at 250-5°.
 Davison, A. *et al*, *J. Chem. Soc.*, 1961, 3172 (*synth*)
 Kochhar, R.K. *et al*, *J. Organomet. Chem.*, 1966, **6**, 272 (*synth, pmr*)
 Busetto, L. *et al*, *Inorg. Chim. Acta*, 1968, **2**, 391 (*synth, ir*)
 Jetz, W. *et al*, *Inorg. Chem.*, 1970, **10**, 1159 (*synth, ir*)
 Gress, M.E. *et al*, *Inorg. Chem.*, 1973, **12**, 1746 (*cryst struct*)
 Williams, W.E. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1329 (*synth*)
 Bodner, G.M. *et al*, *Inorg. Chem.*, 1974, **13**, 2563 (*cmr*)
 Roman, E. *et al*, *Inorg. Chem.*, 1979, **18**, 3284 (*synth*)
 Riley, P.E. *et al*, *Organometallics*, 1983, **2**, 286 (*struct, ir*)

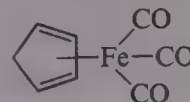
C₈H₆FeN₂O₃ **Fe-00267**
Tricarbonyl[(4,5,6,7-η)-1H-1,2-diazepine]iron, 9Cl
[51187-44-1]



M 233.994
 Exhibits NH tautomerism and molecular fluxionality in soln. Yellow cryst. Mp 121°.

l-Me: [57535-36-1].
 C₉H₈FeN₂O₃ M 248.021
 Yellow-orange cryst. (pentane). Mp 49-50°.
l-Ac: [34822-83-8].
 C₁₀H₈FeN₂O₄ M 276.031
 Yellow cryst. (pet. ether). Mp 71.5-72°.
CF₃COOH compd.: [57535-35-0]. Yellow-orange cryst. (CH₂Cl₂). Mp 99-100°.
l-Benzoyl:
 C₁₅H₁₀FeN₂O₄ M 338.102
 Yellow cryst. (EtOAc/hexane). Mp 169-70°.
l-Phenylsulfonyl: [70272-52-5].
 C₁₄H₁₀FeN₂O₅S M 374.150
 Mp 139-40°.
2,3-Dihydro: see *Tricarbonyl[(4,5,6,7-η)-2,3-dihydro-1H-1,2-diazepine]iron, Fe-00296*
 Streith, J. *et al*, *Bull. Soc. Chim. Fr.*, 1969, 2175 (*derivs, ir, pmr, struct*)
 Carty, A.J. *et al*, *J. Organomet. Chem.*, 1971, **32**, 241 (*synth, pmr, ir, mössbauer, ms, uv*)
 Carty, A.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 6835; *Inorg. Chem.*, 1976, **15**, 601 (*synth, ir, pmr, ms*)
 Carty, A.J. *et al*, *Inorg. Chem.*, 1976, **15**, 1169 (*struct*)

C₈H₆FeO₃ **Fe-00268**
Tricarbonyl[(1,2,3,4-η)-1,3-cyclopentadiene]iron, 9Cl
[40729-83-7]



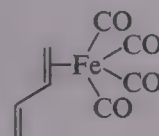
M 205.981
 Light-yellow, air-sensitive oil. Bp_{0.2} 30-5°.
 Kochar, R.K. *et al*, *J. Organomet. Chem.*, 1966, **6**, 272 (*synth, ir, pmr*)
 Whitesides, T.H. *et al*, *J. Organomet. Chem.*, 1975, **82**, 215 (*synth, ir, pmr*)

C₈H₆FeO₃ **Fe-00269**
Tricarbonyl[(1,2,3,4-η)-1-methyl-1,3-cyclobutadiene]iron, 9Cl
[53407-14-0]
 As (η⁴-1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with



M 205.981
 Fitzpatrick, J.D. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 3254 (*synth*)
 Brune, H.A. *et al*, *Z. Naturforsch., B*, 1974, **29**, 219 (*pmr*)
 Pruitt, P.L. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1977, 907 (*pmr*)
 Gmelins *Handbuch der Anorg. Chem.*, 1981, **B7**, 43.

C₈H₆FeO₄ **Fe-00270**
[(1,2-η)-1,3-Butadiene]tetracarbonyliron, 10Cl
[12317-64-5]



M 221.980
 Orange liq. dec. at r.t. to 91062-6 and other products.
 Bp_{1.5} 28°.
 Koerner von Gustorf, E. *et al*, *Justus Liebigs Ann. Chem.*, 1967, **707**, 190 (*ir, ms*)

Koerner von Gustorf, E. *et al*, *Z. Naturforsch., B*, 1971, **26**, 66 (*synth*)
 Noyori, R. *et al*, *Bull. Chem. Soc. Jpn.*, 1976, **49**, 1723 (*synth*)

C₈H₆FeO₄ **Fe-00271**

Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-methanol]iron, ⁹Cl

Tricarbonyl(hydroxymethyl-1,3-cyclobutadiene)iron
 [58396-62-6]

As (η^4 -1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with



M 221.980

Pale-yellow cryst. (Et₂O/pentane). Mp 45-6°.

Fitzpatrick, J.D. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 3254 (*synth*)

Eschbach, C.S. *et al*, *J. Organomet. Chem.*, 1976, **104**, 363 (*cmr*, *synth*, *pmr*)

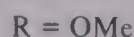
Pruitt, P.L. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1977, 907 (*pmr*)

C₈H₆FeO₄ **Fe-00272**

Tricarbonyl[(1,2,3,4- η)-1-methoxy-1,3-cyclobutadiene]iron, ¹⁰Cl

[64121-51-3]

As (η^4 -1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with



M 221.980

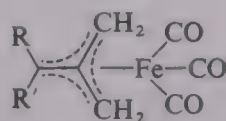
Pruitt, P.L. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1977, 907 (*pmr*)

Gmelins *Handbuch der Anorg. Chem.*, 1981, **B7**, 32.

C₈H₆FeO₄ **Fe-00273**

Tricarbonyl[(η^4 -2-(oxoethylidene)-1,3-propanediyl]iron, ¹⁰Cl
 (Formyltrimethylenemethane)tricarbonyliron

[71374-97-5]



M 221.980

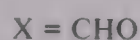
Waxy yellow cryst. (pentane). Mp 75°. Bp_{0.001} 25-30° subl.

Bonazza, B.R. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 4100 (*synth*, *ir*, *pmr*, *ms*)

C₈H₆FeO₄ **Fe-00274**

Tricarbonyl[(2,3,4,5- η)-2,4-pentadienal]iron, ⁹Cl

As (η^4 -1-Bromo-1,3-butadiene)tricarbonyliron, Fe-00174 with



M 221.980

syn-form [34767-47-0]

Viscous orange oil or orange cryst. Mp <15°. Bp_{0.01} 50°.

anti-form [53797-94-7]

Yellow oil. Isom. readily to *syn*-isomer.

Whitlock, H.W. *et al*, *J. Am. Chem. Soc.*, 1971, **93**, 2483 (*synth*, *pmr*)

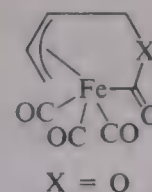
De Puy, C.H. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 5602; 1977, **99**, 4070 (*synth*, *pmr*, *ir*, *ms*)

C₈H₆FeO₅ **Fe-00275**

[(1,2,3- η)-2-Butene-1,4-diyl]oxycarbonyl]tricarbonyliron, ¹⁰Cl

1-Hydroxymethyl- π -allylcarboxyiron tricarbonyl lactone

[53080-66-3]



M 237.979

Pale-yellow prisms (hexane or CH₂Cl₂/Et₂O). Mp 118° (112-4°, 115-6°).

Heck, R.F. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 2580 (*synth*, *ir*, *pmr*)

Murdoch, H.D., *Helv. Chim. Acta*, 1964, **47**, 936 (*synth*, *ir*)

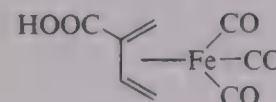
Becker, Y. *et al*, *Tetrahedron*, 1974, **30**, 839 (*synth*, *ir*, *ms*)

Aumann, R. *et al*, *Chem. Ber.*, 1979, **112**, 3644 (*pmr*, *cmr*)

C₈H₆FeO₅ **Fe-00276**

Tricarbonyl(3-methylene-2-butenic acid)iron

Tricarbonyl(η^4 -2-ethenylpropenoic acid)iron. Tricarbonyl(2-carboxy-1,3-butadiene)iron



M 237.979

Yellow cryst. (CH₂Cl₂/hexane). Mp 140-1° dec. pK_a 4.85 (48% EtOH aq.).

Me ester:

C₉H₈FeO₅ M 252.006

Yellow cryst. (EtOH/hexane). Mp 72°.

Joshi, K.K., *J. Chem. Soc. (A)*, 1966, 594 (*synth*, *ir*)

Greene, R.N. *et al*, *J. Chem. Soc. (C)*, 1971, 3115 (*synth*, *ir*, *pmr*, *ms*)

C₈H₆FeO₅ **Fe-00277**

Tricarbonyl[(2,3,4,5- η)-2,4-pentadienoic acid]iron

[34872-44-1]

As (η^4 -1-Bromo-1,3-butadiene)tricarbonyliron, Fe-00174 with



M 237.979

(+)-*syn-form*

[α]_D +221° (Me₂CO).

(-)-*syn-form*

[α]_D -148° (Me₂CO).

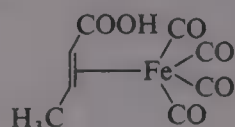
($\pm$)-*syn-form*

Yellow-orange needles (CH₂Cl₂/hexane). Mp 158-60°.

Musco, A. *et al*, *Inorg. Chim. Acta*, 1971, **5**, 157 (*synth*, *resoln*, *cd*, *uv*)

C₈H₆FeO₆Tetracarbonyl[(2,3- η)-2-butenic acid]iron, 9Cl

Tetracarbonyl(crotonic acid)iron



M 253.979

Me ester: [52613-73-7].

C₉H₈FeO₆ M 268.006

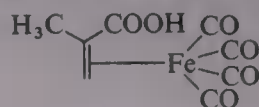
No phys. props. reported.

Grevels, F.W. *et al*, *Justus Liebigs Ann. Chem.*, 1973, **11**, 1821 (ir)

Fe-00278

trans-form [19976-88-6]*anti-form*Red cryst. (pentane). Mp 70-1°. Bp_{0.1} 50° subl.King, R.B., *J. Am. Chem. Soc.*, 1962, **84**, 2460 (*synth*, *isom*, *ir*, *pmr*)Dahl, L.F. *et al*, *Inorg. Chem.*, 1963, **2**, 328 (*struct*)Adams, R.D. *et al*, *Inorg. Chem.*, 1975, **14**, 1395 (*pmr*, *cmr*)King, R.B. *et al*, *Inorg. Chem.*, 1965, **4**, 1663 (*synth*, *pmr*)Lauterbur, P.C. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 3266 (*cmr*)*Organomet. Synth.*, 1965, **1**, 180 (*synth*)Büttner, H. *et al*, *Inorg. Chem.*, 1972, **11**, 971 (*pmr*)Le Borgne, G. *et al*, *J. Organomet. Chem.*, 1977, **131**, 429 (*bibl*)C₈H₆FeO₆Tetracarbonyl[(2,3- η)-2-methyl-2-propenoic acid]iron

Tetracarbonyl(methacrylic acid)iron



M 253.979

Me ester:

C₉H₈FeO₆ M 268.006

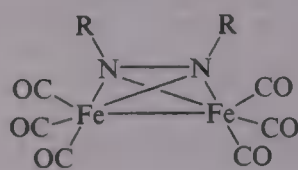
Thermally sensitive orange liq.

Koerner von Gustorf, E. *et al*, *Z. Naturforsch., B*, 1963, **18**, 503, 767 (*synth*, *ir*, *pmr*)

Fe-00279

C₈H₆Fe₂N₂O₆Hexacarbonyl[μ -[1,2-dimethylhydrazinato(2-)]]*diiron*, 8Cl(Azomethane)hexacarbonyl*diiron*. Hexacarbonyl[μ -(η^2 : η^2 -dimethyl diazene)]*diiron*, 9Cl

[26814-32-4]



R = Me

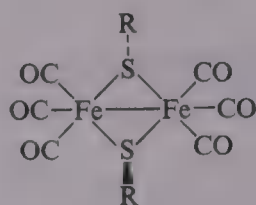
M 337.839

Orange cryst. (pet. ether). Mp 87°. Subl. *in vacuo*.Dekker, M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1967, 1243 (*synth*)Doedens, R.J. *et al*, *Inorg. Chem.*, 1969, **8**, 2709 (*pmr*, *struct*)

Fe-00280

C₈H₆Fe₂O₆S₂Hexacarbonylbis[μ -(methanethiolato)]*diiron*, 9Cl

[14878-96-7]



R = Me

trans-form

M 373.946

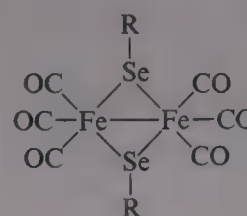
cis-form [19976-87-5]*syn-form*

Orange cryst. (pentane). Mp 112-4°.

Fe-00281

C₈H₆Fe₂O₆Se₂Hexacarbonylbis[μ -(methaneselenolato)]*diiron*, 9Cl

[38497-97-1]



R = Me

M 467.746

syn-form

Air-stable ruby-red malodorous cryst. Mp 134-5° (84°).

Rosenbuch, P. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 1963(*synth*, *pmr*, *ir*)Seyferth, D. *et al*, *J. Organomet. Chem.*, 1981, **204**, 333 (*synth*, *pmr*, *ir*)

Fe-00282

C₈H₇ClFeO₂Dicarbonyl(chloromethyl)(η^5 -2,4-cyclopentadien-1-yl)iron, 9Cl σ -(Chloromethyl)- π -cyclopentadienyliron dicarbonyl [12107-38-9]As Bromodicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00173 withX = -CH₂Cl

M 226.442

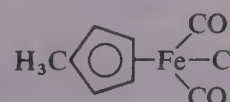
Pale-yellow cryst. (pet. ether).

Jolly, P.W. *et al*, *J. Am. Chem. Soc.*, 1966, **88**, 5044 (*synth*)Green, M.L.H. *et al*, *J. Chem. Soc. (A)*, 1967, 1508 (*synth*, *ir*, *pmr*)King, R.B. *et al*, *J. Organomet. Chem.*, 1973, **54**, 9 (*synth*)Barefield, E.K. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 6542 (*synth*)

Fe-00283

C₈H₇ClFeO₂Dicarbonylchloro[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]iron, 9Cl(η^5 -Methylcyclopentadienyl)dicarbonylchloroiron. (π -Methylcyclopentadienyl)dicarbonyliron chloride

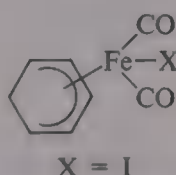
[32629-00-8]



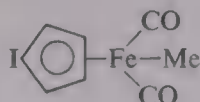
M 226.442

Fe-00284

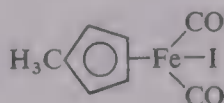
Solid. Mp 47-9°.

Hackett, P. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 1487
(*synth*, *ir*)**C₈H₇FeIO₂** **Fe-00285****Dicarbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]iodoiron,**
10Cl
Dicarbonylcyclohexadienylumiodoiron
[12107-39-0]

M 317.894

Red-brown needles (CHCl₃/pet. ether). Mp 95-6°.Hashmi, M.A. *et al*, *J. Chem. Soc. (A)*, 1967, 240 (*synth*, *ir*)Johnson, B.F.G. *et al*, *J. Organomet. Chem.*, 1978, **157**, C67
(*synth*, *ir*)Gower, M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1979, 2003
(*synth*, *ir*)**C₈H₇FeIO₂** **Fe-00286****Dicarbonyl(η^5 -1-iodo-2,4-cyclopentadien-1-yl)methyliron,**
10Cl
[68148-25-4]

M 317.894

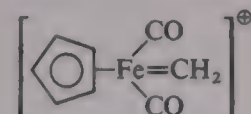
Brown-yellow oil with camphoraceous odour. Bp 95-100°
in vacuo.Herrmann, W.A. *et al*, *Chem. Ber.*, 1978, **111**, 3124 (*synth*, *ir*,
pmr)**C₈H₇FeIO₂** **Fe-00287****Dicarbonyliodo[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]iron, 9Cl**
(η^5 -Methylcyclopentadienyl)dicarbonyliodoiron.
(Methylcyclopentadienyl)iron dicarbonyl iodide
[32628-97-0]

M 317.894

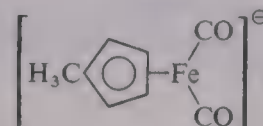
Brown cryst. (CCl₄/pentane or C₆H₆/pet. ether).Brown, D.A. *et al*, *Inorg. Chim. Acta*, 1969, **6**, 346 (*synth*, *ir*)Parker, D.J. *et al*, *J. Chem. Soc. (A)*, 1970, 1040 (*synth*, *ir*)Haines, R.J. *et al*, *J. Chem. Soc. (A)*, 1970, 2341 (*synth*, *ir*)Manning, A.R., *J. Chem. Soc. (A)*, 1971, 106 (*ir*)**C₈H₇FeNO₄** **Fe-00288****[(1,2,3- η)-2-Butene-1,4-diyl(iminocarbonyl)]tricarbonyliron, 9Cl**
l-Aminomethyl- π -allylcarboxyiron tricarbonyl lactam
[53822-57-4]As [(1,2,3- η)-2-Butene-1,4-diyl]oxycarbonyl]tricarbonyliron, Fe-00275 with

X = NH

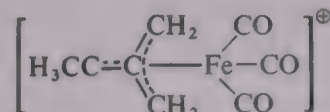
M 236.995

Yellow cryst. (Et₂O/hexane). Mp 106-7°.N-Me: see [(1,2,3- η)-2-Butene-1,4-diyl](methylimino)carbonyl]tricarbonyliron, Fe-00418Becker, Y. *et al*, *Tetrahedron*, 1974, **30**, 839 (*synth*, *ir*, *pmr*,
ms)**C₈H₇FeO₂⁺** **Fe-00289****Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)methyleneiron(1+)**
(Carbene)dicarbonyl- π -cyclopentadienyliron(1+)
[45835-61-8]

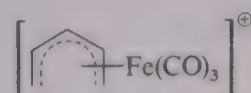
M 190.989 (ion)

Methylene transfer reagent. Generated and used *in situ*.Jolly, P.W. *et al*, *J. Am. Chem. Soc.*, 1966, **88**, 5044 (*synth*, *use*)**C₈H₇FeO₂⁻** **Fe-00290****Dicarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]-ferrate(1-), 9Cl**
(η^5 -Methylcyclopentadienyl)dicarbonyliron(1-)

M 190.989 (ion)

K salt: [59654-58-9].C₈H₇FeKO₂ M 230.087Generated and used *in situ*.Ellis, J.E. *et al*, *Inorg. Chem.*, 1976, **15**, 2031 (*synth*, *ir*)Alper, H. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 508.**C₈H₇FeO₃⁺** **Fe-00291****Tricarbonyl[η^4 -2-(2-ethyl-1-ylidene)-1,3-propanediyl]iron(1+), 10Cl**
(Methyltrimethylenemethane)tricarbonyliron(1+)
[71700-00-0]

M 206.989 (ion)

Generated in SO₂ soln. at -78°.Dobosh, P.A. *et al*, *Inorg. Chem.*, 1980, **19**, 228 (*synth*, *pmr*)**C₈H₇FeO₃⁺** **Fe-00292****Tricarbonyl(η^5 -2,4-pentadienyl)iron(1+), 9Cl**
Pentadienyltricarbonyliron(1+)
[45977-75-1]

M 206.989 (ion)

Hexafluorophosphate: [57896-95-4].C₈H₇F₆FeO₃P M 351.953

Yellow cryst.

Tetrachloroaluminate: [56178-31-5].

C₈H₇AlCl₄FeO₃ M 375.782

Hygroscopic yellow cryst.

Tetrafluoroborate: [12079-72-0].

C₈H₇BF₄FeO₃ M 293.792

Yellow cryst.

Perchlorate:

C₈H₇ClFeO₇ M 306.439Yellow cryst. (MeNO₂).

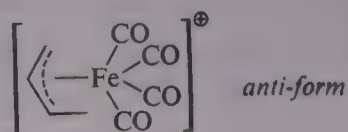
►Explodes violently when heated

Mahler, J.E. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 1511; 1963, **85**, 3955 (*synth*, *ir*, *pmr*)Birch, A.J. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1976, 954 (*synth*, *use*)Olah, G.A. *et al*, *J. Org. Chem.*, 1976, **41**, 2383 (*cmr*)Bayond, R.S. *et al*, *J. Organomet. Chem.*, 1979, **174**, 297 (*synth*)C₈H₇FeO₄⁺

Fe-00293

[(1,2,3- η)-2-Butenyl]tetracarbonyliron(1+), ⁹ClTetracarbonyl(1-methyl- π -allyl)iron(1+).Tetracarbonyl(π -crotyl)iron(1+)

[56083-12-6]

*anti-form*

M 222.988 (ion)

syn-formNo phys. props. reported. Formed from *anti-form* after 36h in F₃CCOOH or liq. SO₂.**anti-form**

Tetrafluoroborate: [38386-54-8].

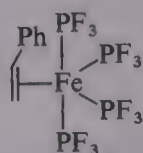
C₈H₇BF₄FeO₄ M 309.792Solid. *ir* ν_{CO} 2100, 2088, 2080 cm⁻¹ (MeNO₂).Gibson, D.H. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 5090 (*synth*, *pmr*)Whitesides, T.H. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 5792 (*use*)Gibson, D.H. *et al*, *J. Organomet. Chem.*, 1975, **86**, C31 (*isom*)Parakkat, B.C. *et al*, *J. Inorg. Nucl. Chem.*, 1975, **37**, 2340 (*mössbauer*)Gibson, D.H. *et al*, *J. Organomet. Chem.*, 1978, **155**, 221 (*cmr*)C₈H₈F₁₂FeP₄

Fe-00294

[(η^2 -Ethenyl)benzene]tetrakis(phosphorous trifluoride)iron,⁹Cl

(Styrene)irontetrakis(trifluorophosphine)

[51205-58-4]



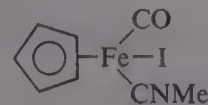
M 511.874

Yellow cryst. Mp 28-9°. Bp_{0.001} ca. 40°.Kruck, T.H. *et al*, *Chem. Ber.*, 1974, **71**, 271 (*synth*, *pmr*, *ir*, *ms*)C₈H₈FeINO

Fe-00295

Carbonyl(η^5 -2,4-cyclopentadien-1-yl)iodo(isocyanomethane)-iron, 10ClCarbonyl- π -cyclopentadienyliodo(methyl isocyanide)-iron, 8Cl. (η^5 -Cyclopentadienyl)carbonyliodo(methyl isocyanide)iron. π -Cyclopentadienylcarbonyl(methyl isonitrile)iron iodide

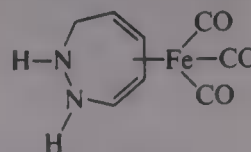
[25036-91-3]



M 316.909

Green-brown cryst. (C₆H₆/heptane). Mp 141-2° dec.Treichel, P.M. *et al*, *Inorg. Chem.*, 1969, **8**, 2563 (*synth*, *ir*, *pmr*)Kumar, R. *et al*, *J. Organomet. Chem.*, 1981, **216**, C61.C₈H₈FeN₂O₃

Fe-00296

Tricarbonyl[(4,5,6,7- η)-2,3-dihydro-1H-1,2-diazepine]iron

M 236.010

Yellow cryst.

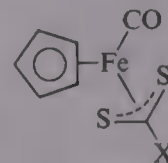
Tsuchiya, T. *et al*, *Can. J. Chem.*, 1975, **53**, 519 (*synth*, *ir*, *pmr*, *derivs*)C₈H₈FeOS₃

Fe-00297

Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(methyltrithiocarbonato-S,S')iron

Cyclopentadienylcarbonyliron methyltrithiocarbonate.

(Hydrogen trithiocarbonato)carbonylcyclopentadienyli-ron methyl ester



X = SMe

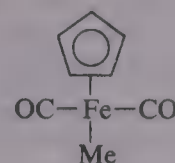
M 272.178

Ruby-red cryst. (Et₂O/pet. ether). Mp 55°.Bruce, R. *et al*, *J. Organomet. Chem.*, 1966, **6**, 67 (*synth*, *ir*, *pmr*)C₈H₈FeO₂

Fe-00298

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)methyliron, ⁹ClCyclopentadienyldicarbonylmethyliron. σ -Methyl- π -cyclopentadienyldicarbonyliron

[12080-06-7]



M 191.997

Orange waxy solid. Mp 78-82°. Dec. at 110° *in vacuo*.

Sublimes at 60°/0.1 mm.

Piper, T.S. *et al*, *J. Inorg. Nucl. Chem.*, 1956, **3**, 104 (*synth*, *ir*, *pmr*, *uv*)

Piper, T.S. *et al*, *Naturwissenschaften*, 1957, **43**, 15 (*synth*)
 Clifford, A.F. *et al*, *J. Inorg. Nucl. Chem.*, 1963, **25**, 1065 (*synth*)
 King, R.B. *et al*, *J. Organomet. Chem.*, 1964, **2**, 15 (*synth, ir, pmr, uv*)
 Marks, T.J. *et al*, *J. Organomet. Chem.*, 1971, **33**, C35 (*pmr*)
 Jordan, R.F. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 4853 (*cmr*)

C₈H₈FeO₂S**Fe-00299****Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(methanethiolato)iron, 9C1**

Dicarbonyl-π-cyclopentadienyl(methylthio)iron. Cyclopentadienyldicarbonyliron methylmercaptide
 [12080-10-3]

As Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)
 (difluorophosphinothioyl-P)iron, Fe-00189 with

L = SMe

M 224.057

Red-brown leaflets (Et₂O/pentane). Mp 72°.

Ahmad, M. *et al*, *J. Organomet. Chem.*, 1966, **6**, 1 (*synth, ir, pmr*)

C₈H₈FeO₃**Fe-00300****Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(hydroxymethyl)iron**

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, Fe-00173 with

X = –CH₂OH

M 207.996

Parent compd. unknown.

Me ether: [12108-35-9]. *Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(methoxymethyl)iron.*

C₉H₁₀FeO₃ M 222.023Yellow-brown oil. Bp_{0.001} 30°.

Ac: [12244-91-6]. [(*Acetyloxy*)methyl]dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron.

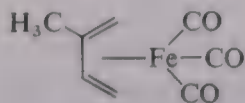
C₁₀H₁₀FeO₄ M 250.034Brown-yellow oil. Bp_{0.001} 30°.

Green, M.L.H. *et al*, *J. Chem. Soc. (A)*, 1967, 1508 (*synth, ir, pmr*)

Casey, C.P. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 1134 (*use*)

C₈H₈FeO₃**Fe-00301****Tricarbonyl[(1,2,3,4-η)-2-methyl-1,3-butadiene]iron, 9C1***(Isoprene)iron tricarbonyl*

[32731-93-4]



M 207.996

Yellow oil. Bp_{0.8} 33-5°.

King, R.B. *et al*, *J. Inorg. Nucl. Chem.*, 1961, **16**, 233 (*synth, pmr, ir*)

Busch, M.A. *et al*, *Inorg. Chem.*, 1975, **14**, 219 (*synth, ir*)

Leibfritz, D. *et al*, *J. Organomet. Chem.*, 1976, **105**, 255 (*cmr*)

Gibson, D.H. *et al*, *J. Organomet. Chem.*, 1978, **155**, 221 (*cmr*)

Graf, R.E. *et al*, *J. Organomet. Chem.*, 1979, **166**, 53 (*synth, pmr, ir*)

Behrens, H. *et al*, *J. Organomet. Chem.*, 1980, **192**, 389 (*pmr*)

C₈H₈FeO₃**Fe-00302****Tricarbonyl[(1,2,3,4-η)-1,3-pentadiene]iron, 9C1***(Piperylene)iron tricarbonyl*

[12080-18-1]

As (η⁴-1-Bromo-1,3-butadiene)tricarbonyliron, Fe-00174 with

X = CH₃

M 207.996

syn-form [12128-29-9]Yellow or orange oil. Bp₁₂ 69-71°, Bp_{0.1} 29-30°.*anti-form* [32732-71-1]Dark-yellow oil. Bp_{0.4} 40°.

King, R.B. *et al*, *J. Inorg. Nucl. Chem.*, 1961, **16**, 233 (*synth, ir, pmr*)

Mahler, J.E. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 3955 (*synth, pmr, ir*)

Emerson, G.F. *et al*, *J. Org. Chem.*, 1964, **29**, 3620 (*synth, pmr, ir*)

Young, D.A.T. *et al*, *J. Am. Chem. Soc.*, 1969, **91**, 6968 (*pmr*)

Busch, M.A. *et al*, *Inorg. Chem.*, 1975, **14**, 219 (*synth, ir*)

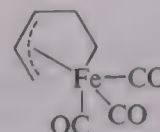
Gibson, D.H. *et al*, *J. Organomet. Chem.*, 1978, **155**, 221; **157**, 81 (*synth, cmr*)

Bayoud, R.S. *et al*, *J. Organomet. Chem.*, 1979, **174**, 297 (*stereochem*)

Graf, R.E. *et al*, *J. Organomet. Chem.*, 1979, **166**, 53 (*synth, ir, pmr*)

C₈H₈FeO₃**Fe-00303****Tricarbonyl[(1,2,3,5-η)-2-pentene-1,5-diyl]iron, 9C1**

[52487-17-9]



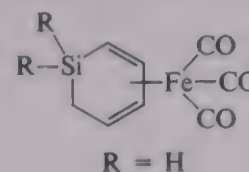
M 207.996

Yellow oil.

Aumann, R., *J. Am. Chem. Soc.*, 1974, **96**, 2631 (*synth, ir, pmr*)

C₈H₈FeO₃Si**Fe-00304****Tricarbonyl[(2,3,4,5-η)-1-sila-2,4-cyclohexadiene]iron**

[80491-94-7]



R = H

M 236.082

No phys. props. reported.

Nekrasov, Yu.S. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1981, 2243 (*synth, ms*)

C₈H₈FeO₄**Fe-00305****[(O,2,3,4-η)-3-Penten-2-one]tricarbonyliron**

[60196-58-9]

As [(O,2,3,4-η)-3-Buten-2-one]tricarbonyliron, Fe-00205 with

R = R' = CH₃

M 223.996

Fe(CO)₃ transfer reagent. Red-brown oil.

Brookhart, M. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 8155 (*synth*, *pmr*, *cmr*)

C₈H₈FeO₄ **Fe-00306**
Tricarbonyl[η⁴-2-(2-hydroxyethylidene)-1,3-propanediyl]iron, 10Cl
 [(Hydroxymethyl)trimethylenemethane]tricarbonyliron
 [71374-98-6]

As Tricarbonyl[η⁴-2-(oxoethylidene)-1,3-propanediyl]-iron, Fe-00273 with



M 223.996
 Mp 45-6°.

Dobosh, P.A. *et al*, *Inorg. Chem.*, 1980, **19**, 228 (*synth*, *ir*, *pmr*, *ms*)

C₈H₈FeO₄ **Fe-00307**
Tricarbonyl[(2,3,4,5-η)-2,4-pentadien-1-ol]iron
 As (η⁴-1-Bromo-1,3-butadiene)tricarbonyliron, Fe-00174 with



M 223.996

syn-form

Orange oil. Bp_{0.3} 91-3°.

Mahler, J.E. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 1511; 1963, **85**, 3955 (*synth*, *ir*)

Emerson, G.F. *et al*, *J. Org. Chem.*, 1964, **29**, 3620 (*pmr*)

C₈H₈FeO₄S **Fe-00308**
Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(methanesulfinato-O)iron, 9Cl
Dicarbonyl-π-cyclopentadienyl(O-methylsulfonyl)iron.
(η⁵-Cyclopentadienyl)dicarbonyl(methyl-O-sulfinato)-iron
 [37955-99-0]

As Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(difluorophosphinothioyl-P)iron, Fe-00189 with



M 256.056

Characterised spectroscopically. In soln. isomerises to the S-sulfinate.

Jacobson, S.E. *et al*, *Inorg. Chem.*, 1973, **12**, 717 (*ir*, *pmr*)

C₈H₈FeO₄S **Fe-00309**
Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(methylsulfonyl)iron, 9Cl
(η⁵-Cyclopentadienyl)dicarbonyl(methyl-S-sulfinato)-iron
 [12080-26-1]

As Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(difluorophosphinothioyl-P)iron, Fe-00189 with



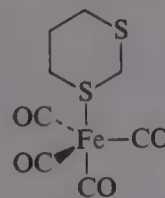
M 256.056

Yellow cryst. (pentane/CHCl₃). Sol. org. solvs., conc. HCl. Mp 135°.

Bibler, J.P. *et al*, *J. Am. Chem. Soc.*, 1966, **88**, 4862 (*synth*)

Jacobson, S.E. *et al*, *Inorg. Chem.*, 1973, **12**, 717 (*ir*, *pmr*)

C₈H₈FeO₄S₂ **Fe-00310**
Tetracarbonyl(1,3-dithiane-S')iron, 9Cl
 [59449-63-7]



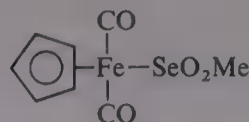
M 288.116

Gold-coloured cryst. (THF/hexane).

Cotton, F.A. *et al*, *Inorg. Chim. Acta*, 1975, **15**, 239 (*synth*, *ir*, *cryst struct*)

Cane, D.J. *et al*, *Can. J. Chem.*, 1978, **56**, 1538 (*synth*, *nmr*)

C₈H₈FeO₄Se **Fe-00311**
Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(methylselenonyl)iron
 [65015-71-6]



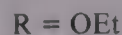
M 302.956

Air stable, red-brown needles. Mod. sol. CH₂Cl₂, MeOH, insol. other solvs. Mp 140°.

Lorenz, I.-P., *Angew. Chem., Int. Ed. Engl.*, 1978, **17**, 53 (*synth*, *pmr*, *ir*, *ms*)

C₈H₈FeO₅ **Fe-00312**
Tetracarbonyl[(1,2-η)-ethoxyethene]iron, 9Cl
Tetracarbonyl(ethoxyethylene)iron, 8Cl. Tetracarbonyl(ethyl vinyl ether)iron
 [33409-79-9]

As (Bromoethylene)tetracarbonyliron, Fe-00105 with



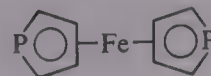
M 239.995

Orange-red liq., dec. at r.t.

Koerner von Gustorf, E. *et al*, *Z. Naturforsch., B*, 1966, **21**, 42 (*synth*, *ir*)

Koerner von Gustorf, E. *et al*, *Justus Liebigs Ann. Chem.*, 1967, **707**, 190 (*ir*, *ms*)

C₈H₈FeP₂ **Fe-00313**
Bis(η⁵-1-H-phosphol-1-yl)iron, 10Cl
1,1'-Diphosphaferrocene
 [73153-27-2]



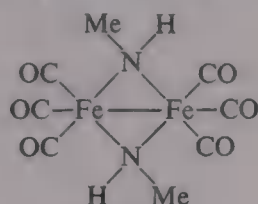
M 221.946

Stable orange-red cryst. (C₆H₆/hexane). Mp 145°.

De Lauzon, G. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 994 (*synth*, *pmr*, *cmr*, *nmr*, *ms*)

C₈H₈Fe₂N₂O₆
Hexacarbonylbis(methylamino)diiron

Fe-00314



M 339.855

Orange-yellow cryst. Mp 135°. Mixt. of isomers.

Monomer: Tricarbonyl(methylamino)iron.

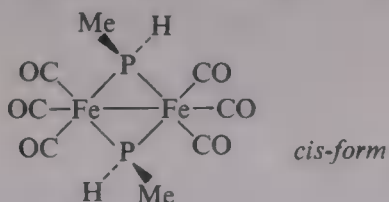
C₄H₄FeNO₃ M 169.928

Unknown.

Dekker, M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1967, 1243 (synth)

C₈H₈Fe₂O₆P₂
Hexacarbonylbis[μ-(methylphosphino)]diiron, 9Cl

Fe-00315



M 373.789

cis-form [38890-24-3]*syn-form*

Yellow cryst. (heptane). Mp 159-65°.

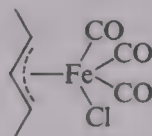
trans-form [38890-26-5]*anti-form*

Characterised spectroscopically.

Treichel, P.M. *et al*, *Inorg. Chem.*, 1972, **11**, 1609 (synth, pmr, ir)Bor, G., *J. Organomet. Chem.*, 1975, **94**, 181 (ir)

C₈H₉ClFeO₃
Chlorotricarbonyl[(2,3,4-η)-3-penten-2-yl]iron
Chlorotricarbonyl(1,3-dimethyl-π-allyl)iron

Fe-00316



M 244.457

Characterised spectroscopically.

Emerson, G.F. *et al*, *Chem. Ind. (London)*, 1964, 836 (synth)

C₈H₉FeNO₂
(η⁴-1,3-Butadiene)dicarbonyl(isocyanomethane)iron, 10Cl
(1,3-Butadiene)dicarbonyl(methyl isocyanide)iron
[75070-28-9]

Fe-00317

As (η⁴-1,3-Butadiene)dicarbonyl(phosphorous trifluoride)iron, Fe-00128 with

X = MeNC—

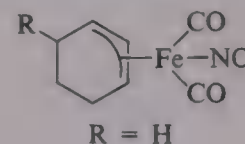
M 207.012

Bright-yellow oil.

Behrens, H. *et al*, *Z. Naturforsch., B*, 1976, **31**, 1017; *J. Organomet. Chem.*, 1980, **192**, 389 (synth, pmr, ir)

C₈H₉FeNO₃
Dicarbonyl[(1,2,3-η)-2-cyclohexen-1-yl]nitrosyliron

Fe-00318



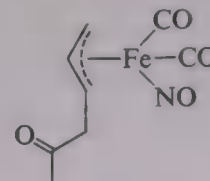
R = H

M 223.011

Red oil. Bp_{0.01} 60°.Chaudhari, F.M. *et al*, *J. Chem. Soc. (C)*, 1967, 2255 (synth, pmr, ir)

C₈H₉FeNO₄
Dicarbonyl[(1,2,3-η)-2-hexen-5-one-1-yl]nitrosyliron, 8Cl
(1-Aceton-yl-π-allyl)dicarbonylnitrosyliron, 8Cl. Dicarbonylnitrosyl(5-oxo-1,2,3-hexenyl)iron
[12281-90-2]

Fe-00319



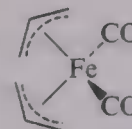
M 239.010

Red oil.

Chaudhari, F.M. *et al*, *J. Chem. Soc. (C)*, 1967, 2255 (synth, ir, pmr)

C₈H₁₀FeO₂
Dicarbonylbis(η³-2-propenyl)iron, 9Cl
Di-π-allyldicarbonyliron

Fe-00320



M 194.013

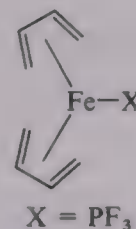
Orange-red cryst. Mp 57-8° dec. Bp₅₋₁₀ 20-5° subl.

▷ Pyrophoric

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1967, **176**, 341; *J. Organomet. Chem.*, 1968, **14**, 387, 395 (synth, pmr, ir)Chenskaya, T.B. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1975, 1292 (ir, raman)

C₈H₁₂F₃FeP
Bis(η⁴-1,3-butadiene)(phosphorous trifluoride)iron, 9Cl
[38785-62-5]

Fe-00321

X = PF₃

M 251.999

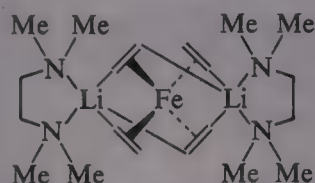
Orange-yellow cryst. or yellow-brown needles (pentane).

Mp 185-92°. Bp 73° subl.

Koerner von Gustorf, E. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1972, **11**, 532 (synth, ms, pmr)Williams-Smith, D.L. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 4042 (synth, pmr, ms)

C₈H₁₆Fe^{⊖⊖}

Tetrakis(η²-ethene)ferrate(2-), 10Cl
Tetrakis(ethylene)iron(2-)



Li salt,
TMEDA complex

M 168.061 (ion)

Intermed. for anionic iron derivs.

Di-Li salt, bis(tetramethylethylenediamine) complex:
 [69470-68-4].

C₄₀H₄₈FeLi₂N₄ M 654.575

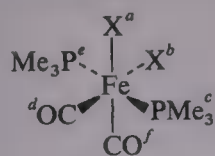
Yellow-green cryst.

Jonas, K. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1979, **18**, 550
 (synth, struct, use)

C₈H₁₈Br₂FeO₂P₂

Fe-00323

Dibromodicarbonylbis(trimethylphosphine)iron, 9Cl, 8Cl
 [22624-30-2]



ab-dibromo-*df*-dicarbonyl-
ce-diphosphine-form

X = Br

M 423.832

***ab*-dibromo-*df*-dicarbonyl-*ce*-diphosphine-form** [62075-70-1]

cis,cis,trans-form

Red-brown solid. Dec. before melting.

***af*-dibromo-*bc*-dicarbonyl-*cd*-diphosphine-form** [62075-75-6]

trans,cis-form

Red-brown solid. Dec. before melting.

Pankowski, M. *et al*, *J. Organomet. Chem.*, 1977, **125**, 231
 (synth, ir, nmr)

C₈H₁₈Cl₂FeO₂P

Fe-00324

Dicarbonyldichlorobis(trimethylphosphine)iron
 [23540-34-3]

As Dibromodicarbonylbis(trimethylphosphine)iron, Fe-00323 with

X = Cl

M 303.956

***ab*-dicarbonyl-*df*-dichloro-*ce*-diphosphine-form** [62075-77-8]

di-cis,cis,trans-form

Yellow cryst. Dec. before melting.

***ab*-dicarbonyl-*ce*-dichloro-*df*-diphosphine-form** [62075-76-7]

di-trans,cis-form

Yellow cryst. Dec. before melting.

Pankowski, M. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1968, 267
 (ir)

Pankowski, M. *et al*, *J. Organomet. Chem.*, 1977, **125**, 231
 (synth, ir, nmr)

C₈H₁₈FeI₂O₂P₂

Fe-00325

Dicarbonyldiiodobis(trimethylphosphine)iron, 9Cl, 8Cl
 [59460-91-2]

As Dibromodicarbonylbis(trimethylphosphine)iron, Fe-00323 with

X = I

M 517.833

***ab*-dicarbonyl-*df*-diiodo-*ce*-diphosphine-form** [62075-71-2]
di-cis,cis,trans-form

Deep-brown cryst. Mp 193°. μ = 3.9 D.

***ab*-dicarbonyl-*ce*-diiodo-*df*-diphosphine-form** [15691-74-4]
di-trans,cis-form

Cryst., stable in air. Insol. nonpolar solvs. Dec. before melting. Transforms slowly in THF soln. to *di-cis,cis,trans-form*.

***af*-dicarbonyl-*bd*-diiodo-*ce*-diphosphine-form** [51819-67-1]
di-trans,trans-form

Cryst. Dec. before melting.

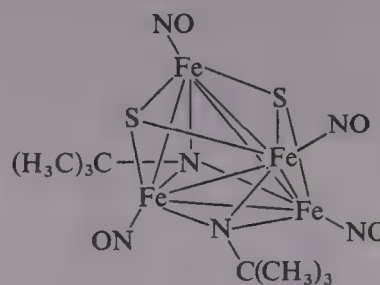
Bancroft, G.M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 2103
 (mössbauer, ir, synth)

Pankowski, M. *et al*, *J. Organomet. Chem.*, 1977, **125**, 231
 (synth, ir, nmr)

C₈H₁₈Fe₄N₆O₄S₂

Fe-00326

Bis[μ₃-[2-methyl-2-propanaminato(2-)]]tetranitrosyldi-μ₃-thioxotetrairon, 9Cl
 [53276-79-2]



M 549.776

Gall, R.S. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 4019 (synth, struct, ir, pmr)

Sedney, D. *et al*, *Inorg. Chim. Acta*, 1979, **34**, 231 (mössbauer)

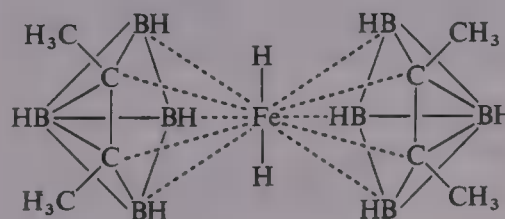
C₈H₂₂B₈Fe

Fe-00327

Bis[(2,3,4,6-η)-pentahydro-4,5-dimethyl-4,5-dicarbaheptaborato(1-)-H⁺]iron

Bis(2,3-dimethyl-2,3-dicarbaheptaboranyl)iron dihydride. [2,3-[C₂B₄H₄(CH₃)₂]]₂FeH₂

[58846-86-9]



M 260.589

H-Fe-H atoms not located. Extremely air-sensitive deep-red cryst. Bp 0° *in vacuo* subl.

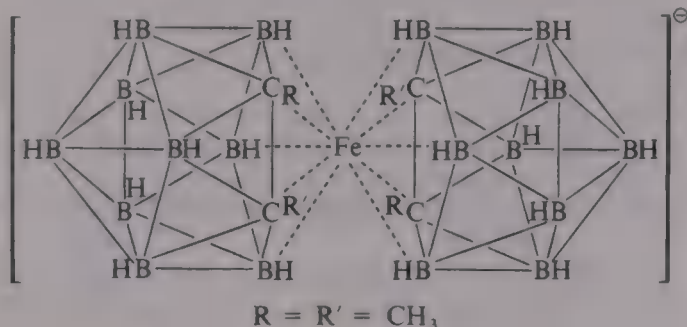
Maxwell, W.M. *et al*, *Inorg. Chem.*, 1976, **15**, 1343 (synth, nmr, pmr, ms, ir)

Pipal, J.R. *et al*, *Inorg. Chem.*, 1979, **18**, 263 (synth, struct)

C₈H₃₀B₁₈Fe[−]

Fe-00328

Bis[(7,8,9,10,11-η)-1,2,3,4,5,6,9,10,11-nonahydro-7,8-dimethyl-7,8-dicarbaundecaborato(2-)]ferrate(1-), 10Cl
 Bis[undecahydro-7,8-dimethyl-π-7,8-dicarbaundecaborato(2-)]ferrate(1-), 8Cl
 [11070-28-3]



M 376.752 (ion)

Paramagnetic. Reduced to a deep-lavender-blue ferrate (2-) species.

Tetramethylammonium salt: [12556-51-3].

C₁₂H₄₂B₁₈FeN M 450.898

Red cryst. (Me₂CO aq.). Mp 247-9°.

Gray, H.B. *et al*, *Inorg. Chem.*, 1971, **10**, 1559.

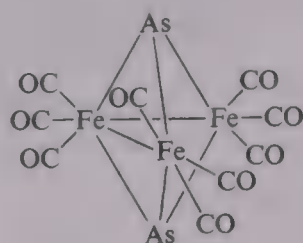
Ammeter, J.H. *et al*, *J. Magn. Reson.*, 1978, **30**, 299 (*esr*)

C₉As₂Fe₃O₉

Fe-00329

Di-μ₃-arsenidononacarbonyltriiron

[40742-82-3]



M 569.478

Violet-black cryst. (pet. ether). Mp >150° dec. Bp_{0.05} 105° subl.

Delbaere, L.T.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 307 (*synth, struct, ms, ir*)

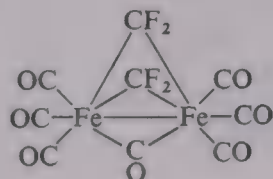
C₉F₄Fe₂O₇

Fe-00330

μ-Carbonylhexacarbonylbis[μ-(difluoromethylene)]diiron, 8Cl

Heptacarbonylbis[μ-(difluoromethylene)]diiron

[26025-16-1]



M 407.782

Yellow needles. Subl. *in vacuo*.

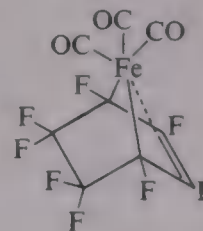
Seel, F. *et al*, *Z. Anorg. Allg. Chem.*, 1971, **386**, 297 (*synth, ms, ir*)

C₉F₈FeO₃

Fe-00331

Tricarbonyl(1,2,3,4,5,5,6,6-octafluoro-1,3-cyclohexadiene)-iron, 8Cl

Tricarbonyl(octafluoro-2-cyclohexen-1,4-ylene)iron.
 (Octafluoro-1,3-cyclohexadiene)iron tricarbonyl



M 363.931

Pale-yellow cryst. (pet. ether). Mp 45°. Bp 30° subl.

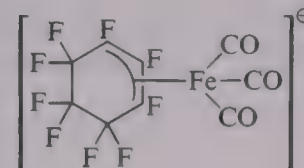
Hoehn, H.H. *et al*, *J. Chem. Soc.*, 1961, 2738 (*synth, ms, ir, nmr*)

Churchill, M.R. *et al*, *Proc. R. Soc. London, Ser. A*, 1967, **301**, 433 (*struct*)

C₉F₉FeO₃[−]

Fe-00332

Tricarbonyl[(1,2,3-η)-1,2,3,4,4,5,5,6,6-nonafluoro-2-cyclohexen-1-yl]ferrate(1-)



M 382.930 (ion)

Cs salt:

C₉H₉CsFeO₃ M 353.921

V. hygroscopic yellow cryst.

Tetraethylammonium salt:

C₁₇H₂₀F₉FeNO₃ M 513.183

Yellow solid.

Parshall, G.W. *et al*, *J. Chem. Soc.*, 1962, 1132 (*synth, nmr, ir*)

C₉FeMnO₉[−]

Fe-00333

Nonacarbonylferratemanganate(1-), 8Cl

[(OC)₄Fe—Mn(CO)₅][−]

M 362.879 (ion)

Bis(triphenylphosphine)iminium salt:

C₄₅H₃₀FeMnNO₉P₂ M 901.466

Dark-red cryst. (pentane/Et₂O). Mp 134-5°.

Ruff, J.K., *Inorg. Chem.*, 1968, **7**, 1818 (*synth, ir*)

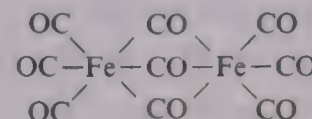
C₉Fe₂O₉

Fe-00334

Nonacarbonyldiiron

Tri-μ-carbonyl(hexacarbonyldiiron), 9Cl. Diiron enneacarbonyl. Iron carbonyl, Fe₂(CO)₉

[15321-51-4]



M 363.788

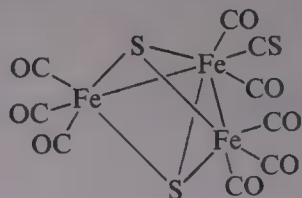
Has various synthetic applications. Orange hexagonal leaflets. Insol. org. solvs. Mp 100-20° dec. (80° dec.).

Inorg. Synth., 1966, **8**, 178 (*synth*)

B.P., 1 130 676, (1968); CA, **70**, 33233 (*synth*)

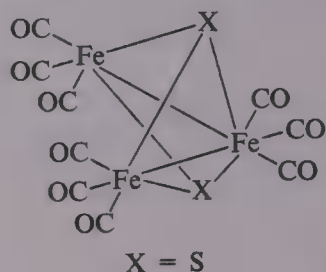
Griffith, W.P. *et al*, *J. Chem. Soc. (A)*, 1969, 834 (*ir, raman*)
 Cotton, F.A., *Prog. Inorg. Chem.*, 1976, **21**, 1 (*rev, struct*)
 Fieser, M. *et al*, *Reagents for Organic Synthesis*, Wiley, 1967-83, **8**, 498.
 Bretherick, L., *Handbook of Reactive Chemical Hazards*, 2nd Ed., Butterworths, London and Boston, 1979, 670.
Hazards in the Chemical Laboratory, (Bretherick, L., Ed.), 3rd Ed., Royal Society of Chemistry, London, 1981, 421.

C₉Fe₃O₈S₃ **Fe-00335**
[μ₃-(Carbonothioyl)]octacarbonyldi-μ-thioxotriiron
 [82109-57-7]



M 499.815
 Dark-red. Configuration of CS ligand not known.
 Broadhurst, P.V. *et al*, *J. Chem. Soc., Chem. Commun.*, 1982, 140 (*synth*)

C₉Fe₃O₉S₂ **Fe-00336**
Nonacarbonyldi-μ₃-thioxotriiron, 9Cl, 8Cl
 [22309-04-2]



M 483.755
 Ruby-red or black-red cryst. (toluene/pentane). Mp 114°.
 Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1958, **296**, 91 (*synth, ir*)
 Wei, C.H. *et al*, *Inorg. Chem.*, 1965, **4**, 493 (*struct*)
 Chaudhuri, M.K. *et al*, *J. Organomet. Chem.*, 1977, **124**, 37 (*ms*)
 Nametkin, N.S. *et al*, *J. Organomet. Chem.*, 1978, **149**, 355.
 Aime, S. *et al*, *J. Chem. Soc., Dalton Trans.*, 1980, 46 (*cmr*)
 Huebener, P. *et al*, *Cryst. Struct. Commun.*, 1982, **11**, 331 (*cryst struct*)
 Rives, A.B. *et al*, *Inorg. Chem.*, 1982, **21**, 2286 (*struct*)
 Winter, A. *et al*, *J. Organomet. Chem.*, 1982, **234**, 337 (*synth, ir, ms*)

C₉Fe₃O₉Se₂ **Fe-00337**
Nonacarbonyldi-μ₃-selenoxotriiron, 9Cl, 8Cl
 [22587-69-5]

As Nonacarbonyldi-μ₃-thioxotriiron, Fe-00336 with

X = Se

M 577.555
 Dark-violet needles (pet. ether).
 Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1958, **296**, 91 (*synth, ir*)
 Dahl, L.F. *et al*, *Inorg. Chem.*, 1963, **2**, 1067 (*struct*)
 Cetini, G. *et al*, *J. Organomet. Chem.*, 1968, **15**, 373.
 Chaudhuri, M.K. *et al*, *J. Organomet. Chem.*, 1977, **124**, 37 (*ms*)
 Aime, S. *et al*, *J. Chem. Soc., Dalton Trans.*, 1980, 46 (*cmr*)

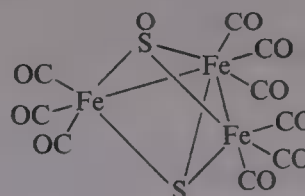
C₉Fe₃O₉Te₂ **Fe-00338**
Nonacarbonyldi-μ₃-telluroxotriiron, 8Cl
 [22587-70-8]

As Nonacarbonyldi-μ₃-thioxotriiron, Fe-00336 with

X = Te

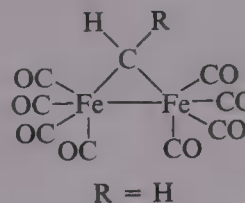
M 674.835
 Fine black-green cryst. (CH₂Cl₂/MeOH).
 Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1958, **296**, 91 (*synth, ir*)
 Chaudhuri, M.K. *et al*, *J. Organomet. Chem.*, 1977, **124**, 37 (*ms*)
 Aime, S. *et al*, *J. Chem. Soc., Dalton Trans.*, 1980, 46 (*cmr*)
 Lesch, D.A. *et al*, *Inorg. Chem.*, 1981, **20**, 3583 (*synth, nmr, ms*)
 Lesch, D.A. *et al*, *Organometallics*, 1982, **1**, 499 (*ir, props*)

C₉Fe₃O₁₀S₂ **Fe-00339**
Nonacarbonyl-μ₃-sulfinyl-μ₃-thioxotriiron
 [73137-67-4]



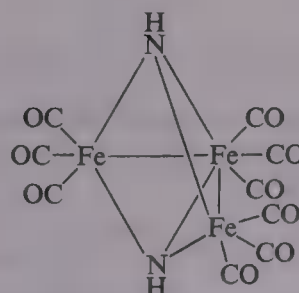
M 499.754
 Dark-red cryst. (toluene/pentane). Mp 120° dec.
 Winter, A. *et al*, *J. Organomet. Chem.*, 1982, **234**, 337 (*synth, ir, ms*)

C₉H₂Fe₂O₈ **Fe-00340**
Octacarbonyl(μ-methylene)diiron
 [73448-09-6]

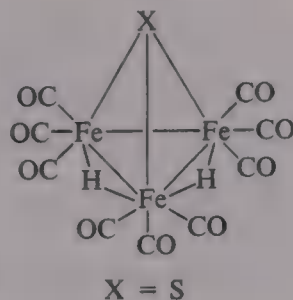


M 349.804
 Yellow cryst. Mp 135° dec.
B, MeI: Yellow needles (MeCN). Mp >250°. Darkens from 185°.
 Sumner, C.E. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 1752.
 Meyer, B.B. *et al*, *Inorg. Chem.*, 1981, **20**, 3024 (*struct*)
 Xiang, S.F. *et al*, *Organometallics*, 1982, **1**, 1200 (*pe*)
 Sumner, C.E. *et al*, *Organometallics*, 1982, **1**, 1350 (*synth, ir, pmr, cmr, ms*)

C₉H₂Fe₃N₂O₉ **Fe-00341**
Nonacarbonyldi-μ₃-imidotriiron, 10Cl
 [78571-89-8]

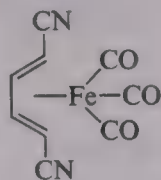


M 449.664
 Peach-coloured, characterised spectroscopically.

Fjare, D.E. *et al*, *Inorg. Chem.*, 1981, **20**, 3533 (*synth*, *ms*, *ir*)**C₉H₂Fe₃O₉S****Fe-00342****Nonacarbonyldi-μ-hydro-μ₃-thioxotriiron, 10Cl**
[78547-62-3]

M 453.710

Fluxional. Black cryst. (hexane). Mp 98° dec. Functions as dibasic acid in polar solvs.

Markó, L. *et al*, *Inorg. Chim. Acta*, 1980, **45**, L189 (*synth*, *pmr*, *cmr*, *ir*)Markó, L., *J. Organomet. Chem.*, 1981, **213**, 271 (*synth*)**C₉H₄FeN₂O₃****Fe-00343****Tricarbonyl(2,4-hexadienedinitrile)iron, 8Cl**
Tricarbonyl(1,4-dicyano-1,3-butadiene)iron
[32647-79-3]

M 243.989

No phys. props. reported.

Whitlock, H.W. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 6665 (*synth*)**C₉H₄FeO₅****Fe-00344****Tricarbonyl[(1,2,3,4-η)-1,3-cyclobutadiene-1,2-dicarboxaldehyde]iron, 9Cl**
(1,2-Diformylcyclobutadiene)tricarbonyliron
[57515-22-7]
As Tricarbonyl(η⁴-1,2-diiodo-1,3-cyclobutadiene)iron, Fe-00147 with

R = CHO

M 247.975

Golden-yellow flakes (hexane). Mp 127-30°.

Berens, G. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 7076 (*synth*, *ir*, *pmr*)**C₉H₄FeO₇****Fe-00345****Tricarbonyl[(1,2,3,4-η)-1,3-cyclobutadiene-1,2-dicarboxylic acid]iron**
Tricarbonyl(1,2-dicarboxycyclobutadiene)iron
As Tricarbonyl(η⁴-1,2-diiodo-1,3-cyclobutadiene)iron, Fe-00147 with

R = COOH

M 279.973

Yellow-orange monoclinic prisms (EtOAc). Mp 222-5°.

*Mono-Me ester:***C₁₀H₆FeO₇** M 294.000Yellow needles (EtOH aq.). Mp 135-7°. Bp_{0.04} 120-45° subl.*Di-Me ester:* [32914-21-9].**C₁₁H₈FeO₇** M 308.027Bright-yellow needles (hexane). Mp 105-106.5°. Bp_{0.001} 70° subl.*Dichloride:* [32913-55-6].**C₉H₂Cl₂FeO₅** M 316.865Yellow-orange needles (CCl₄). Mp 153-6°.*Diamide:* [32993-97-8].**C₉H₆FeN₂O₅** M 278.004Light-yellow plates (H₂O). Mp 297-8°.*Dinitrile:* [32913-56-7]. *Tricarbonyl(1,2-dicyano-1,3-cyclobutadiene)iron.***C₉H₂FeN₂O₃** M 241.973Yellow needles (CCl₄/EtOAc). Mp 215-6° dec. Bp_{1.5} 120-40° subl.Roberts, B.W. *et al*, *J. Am. Chem. Soc.*, 1969, **91**, 6208 (*synth*)Schmidt, E.K.G., *Chem. Ber.*, 1974, **107**, 2440 (*synth*, *ir*)Berens, G. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 7076 (*synth*, *ir*, *pmr*, *derivs*)**C₉H₅F₃FeO₃****Fe-00346****Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(trifluoroacetyl)iron**
[70910-76-8]As Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(difluorophosphinothioyl-*P*)iron, Fe-00189 withL = COCF₃

M 273.979

Orange cryst. (pentane). Mp 33-4°.

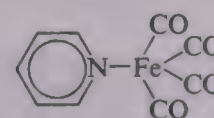
King, R.B. *et al*, *J. Organomet. Chem.*, 1964, **2**, 15 (*synth*, *ir*, *pmr*)Kuhlmann, E.J. *et al*, *Inorg. Chim. Acta*, 1979, **34**, L193 (*cmr*)**C₉H₅F₆FeO₂P****Fe-00347****[Bis(trifluoromethyl)phosphino]dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, 9Cl***Dicarbonyl-π-cyclopentadienylbis(trifluoromethyl)phosphinoiron.**Cyclopentadienyldicarbonyliron[bis(trifluoromethyl)phosphine]*

[38531-56-5]

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, Fe-00173 withX = —P(CF₃)₂

M 345.948

Large orange-brown cryst. Mp 56-8°.

Dobbie, R.C. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1124 (*synth*, *ir*, *pmr*)Barrow, M.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 291 (*struct*)Dobbie, R.C. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 189 (*ir*, *pmr*, *nmr*)**C₉H₅FeNO₄****Fe-00348****Tetracarbonyl(pyridine)iron, 9Cl**
[53317-88-7]

M 246.990

Stereochemically nonrigid. Large air-sensitive orange cryst. (pentane at 0°). Mp 65° dec.

►Pyrophoric

Cotton, F.A. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 3438 (*synth, ir, struct, cmr*)

Flamini, A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1978, 695 (*pe*)

Herberhold, M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1979, 654 (*mössbauer*)

C₉H₆Cl₂FeO₃ Fe-00349
[(1,2,3,4-η)-1,2-Bis(chloromethyl)-1,3-cyclobutadiene]tricarbonyliron, 9Cl

[32993-98-9]

As Tricarbonyl(η⁴-1,2-diiodo-1,3-cyclobutadiene)iron, Fe-00147 with



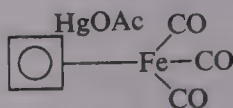
M 288.898

Pale-yellow needles (hexane). Mp 76-8° dec.

Berens, G. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 7076 (*synth, ir, pmr*)

C₉H₆FeHgO₅ Fe-00350
[1-[(Acetato)mercurio]-1,3-cyclobutadiene]tricarbonyliron, 8Cl

Tricarbonyl[(1,2,3,4-η)-1-[(acetato)mercurio]-1,3-cyclobutadiene]iron. [(Acetoxymercuri)cyclobutadiene]-iron tricarbonyl



M 450.580

Disproportionates in acid soln. giving di-, tri- and tetra-HgOAc derivs.

Fitzpatrick, J.D. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 3254 (*synth*)

Amiet, G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1970, 161 (*synth*)

Pruitt, P.L. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1977, 907 (*pmr*)

Gmelins *Handbuch der Anorg. Chem.*, 1981, **B7**, 42.

C₉H₆FeN₂O₅ Fe-00351
Tricarbonyl[(4,5,6,7-η)-1H-1,2-diazepine-1-carboxylic acid]-iron

As Tricarbonyl[(4,5,6,7-η)-1H-1,2-diazepine]iron, Fe-00267 with



M 278.004

Free acid not isol.

Et ester: [12318-41-1].

C₁₁H₁₀FeN₂O₅ M 306.057

Yellow cryst. Mp 115-6°.

Isopropyl ester: [32824-37-6].

C₁₂H₁₂FeN₂O₅ M 320.084

Yellow cryst. Mp 104-5°.

Streith, J. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1968, **7**, 129;

Bull. Soc. Chim. Fr., 1969, 948, 2175 (*synth, ir*)

Allmann, R. *Angew. Chem., Int. Ed. Engl.*, 1970, **9**, 958 (*struct*)

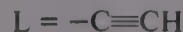
De Cian, A. *et al*, *Bull. Soc. Chim. Fr.*, 1973, 457 (*struct*)

C₉H₆FeO₂ Fe-00352

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(ethynyl)iron

Cyclopentadienylirondicarbonyl acetylde

As Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(difluorophosphinothioyl-*P*)iron, Fe-00189 with



M 201.992

Yellow cryst. Mp 55-60°.

Kim, P.J. *et al*, *Inorg. Nucl. Chem. Lett.*, 1970, **6**, 181 (*synth, ir, pmr*)

C₉H₆FeO₃ Fe-00353

Tricarbonyl(vinylcyclobutadiene)iron

Tricarbonyl[(1,2,3,4-η)-1-ethenyl-1,3-cyclobutadiene]iron, 9Cl

[55451-63-3]

As (η⁴-1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with



M 217.992

Light-yellow liq. Bp_{0.1} 70°.

Biehl, E.R. *et al*, *Synthesis*, 1974, 883 (*synth, pmr*)

Nunn, E.E., *Aust. J. Chem.*, 1976, **29**, 2549 (*synth, ir, pmr, ms*)

C₉H₆FeO₄ Fe-00354

Tricarbonyl(acetylcyclobutadiene)iron

Tricarbonyl[1-[(1,2,3,4-η)-1,3-cyclobutadien-1-yl]ethanone]iron, 9Cl. Tricarbonyl(1,3-cyclobutadien-1-yl methyl ketone)iron, 8Cl

[52445-09-7]

As (η⁴-1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with



M 233.991

Mp 28-9°. Bp_{0.4} 68-9°.

Fitzpatrick, J.D. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 3254 (*synth*)

Marcincal, P. *et al*, *CA*, 1974, **80**, 96134 (*synth*)

Pruitt, P.L. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1977, 907 (*pmr*)

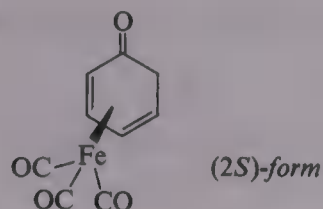
Gmelins *Handbuch der Anorg. Chem.*, 1981, **B7**, 36.

C₉H₆FeO₄ Fe-00355

Tricarbonyl[(2,3,4,5-η)-2,4-cyclohexadien-1-one]iron, 9Cl

(2,4-Cyclohexadienone)tricarbonyliron

[12306-92-2]



M 233.991

(2S)-form [74242-52-7]

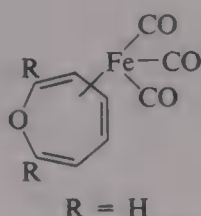
Orange cryst. (H₂O or CH₂Cl₂/Et₂O). Sol. H₂O, org. solvs. Mp 104-104.5°. [α]_D -34.4° (c, 2 in CHCl₃). Sublimes at 80-90°/0.2 mm.

2,4-Dinitrophenylhydrazon: Scarlet cryst. Mp 198-200°.

Birch, A.J. *et al*, *J. Chem. Soc. (A)*, 1968, 332 (*synth*)
Org. Synth., 1977, **57**, 107 (*synth*, *ir*, *pmr*)
 Birch, A.J. *et al*, *J. Org. Chem.*, 1981, **46**, 5166 (*resoln*)

C₉H₆FeO₄**Fe-00356**

Tricarbonyl[(2,3,4,5- η)-oxepin]iron, 9Cl
 [57665-43-7]



M 233.991
 Fluxional. Yellow needles (pentane). Mp 51°. Bp_{0.01} 20° subl.
 Aumann, R. *et al*, *Chem. Ber.*, 1975, **108**, 3336 (*synth*, *pmr*, *ir*, *ms*)

C₉H₆FeO₅**Fe-00357**

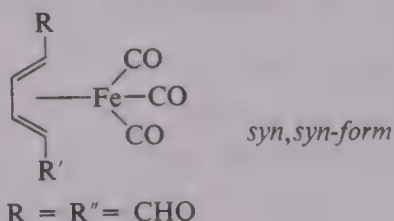
Tricarbonyl[(1,2,3,4- η)-1-(carboxymethyl)-1,3-cyclobutadiene]iron
 (Cyclobutadien-1-ylacetic acid)iron tricarbonyl
 As (η^4 -1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with



M 249.990
 Pale-yellow powder (pet. ether). Mp 85-6°. pK_a 5.56 (50% EtOH, 20°).
 Stierle, D. *et al*, *J. Organomet. Chem.*, 1974, **72**, 221 (*synth*, *pmr*, *ir*)

C₉H₆FeO₅**Fe-00358**

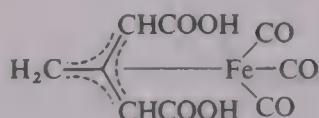
Tricarbonyl[(2,3,4,5- η)-2,4-hexadienedial]iron



M 249.990
syn,syn-form [34788-31-3]
 Orange plates (C₆H₆). Mp 97-8°.
 Whitlock, H.W. *et al*, *J. Am. Chem. Soc.*, 1971, **93**, 2483 (*synth*)

C₉H₆FeO₇**Fe-00359**

[η^4 -1,3-Dicarboxy-2-methylene-1,3-propanediyl]tricarbonyliron



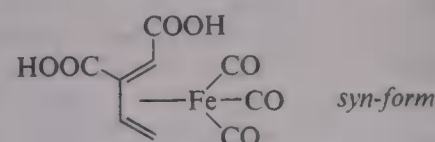
M 281.989
 Free acid not known.
Di-Me ester: [51509-22-9].
 C₁₁H₁₀FeO₇ M 310.043
 Yellow cryst. (pentane). Mp 94-6°. Mixt. of geom. isomers.
Di-Et ester: [36593-92-7].
 C₁₃H₁₄FeO₇ M 338.096

Yellow cryst. (Et₂O/pentane). Mp 27-9°. Mixt. of geom. isomers.

Ehrlich, K. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 2464 (*synth*, *ir*, *pmr*)
 Krull, I.S., *J. Organomet. Chem.*, 1973, **57**, 363 (*synth*, *ir*, *pmr*)

C₉H₆FeO₇**Fe-00360**

Tricarbonyl(η^4 -2-ethenyl-2-butenedioic acid)iron
 Tricarbonyl(1,2-dicarboxybutadiene)iron



M 281.989

syn-form

Di-Me ester: [52314-43-9].

C₁₁H₁₀FeO₇ M 310.043

Yellow solid. Mp 62°.

anti-form

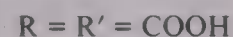
Di-Me ester: [52437-57-7]. Yellow solid. Mp 60-1°.

Whitesides, T.H. *et al*, *J. Organomet. Chem.*, 1974, **67**, 99 (*synth*, *pmr*, *ir*)

C₉H₆FeO₇**Fe-00361**

Tricarbonyl[(2,3,4,5- η)-2,4-hexadienedioic acid]iron
 (Muconic acid)iron tricarbonyl

As Tricarbonyl[(2,3,4,5- η)-2,4-hexadienedial]iron, Fe-00358 with



M 281.989

syn,syn-form

Solid. Mp 300° dec.

Di-Me ester: [12153-21-8].

C₁₁H₁₀FeO₇ M 310.043

Mp 78° dec. (71-4°).

Di-Et ester: [64397-41-7].

C₁₃H₁₄FeO₇ M 338.096

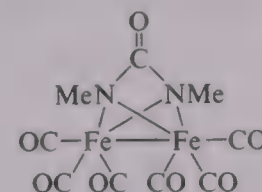
Red cryst. Mp 63-5°. Bp₂ 119-39°.

Maoz, N. *et al*, *Tetrahedron Lett.*, 1965, 2087 (*ms*)

Cais, M. *et al*, *J. Organomet. Chem.*, 1966, **5**, 370 (*synth*, *ir*, *uv*)

C₉H₆Fe₂N₂O₇**Fe-00362**

[μ -[1,3-Dimethylureato(2-)]][hexacarbonyldiiron, 8Cl
 [22533-09-1]



M 365.850

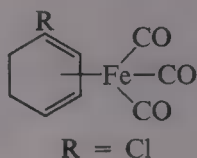
Orange cryst. (CH₂Cl₂/pet. ether). Mp 147°.

Dekker, M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1967, 1243 (*synth*)

Doedens, R.J., *Inorg. Chem.*, 1968, **7**, 2323 (*struct*)

C₉H₇ClFeO₃**Fe-00363**

Tricarbonyl[(1,2,3,4-η)-1-chloro-1,3-cyclohexadiene]iron,
10Cl
[57635-44-6]



M 254.453

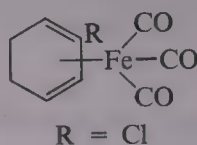
Obt. as a mixt. with Tricarbonyl[(1,2,3,4-η)-2-chloro-1,3-cyclohexadiene]iron, Fe-00364.

Nametkin, N.S. *et al*, *CA*, 1977, **86**, 106748 (*synth*)

Slupczyński, M. *et al*, *Inorg. Chim. Acta*, 1979, **33**, L97 (*synth*)

C₉H₇ClFeO₃**Fe-00364**

Tricarbonyl[(1,2,3,4-η)-2-chloro-1,3-cyclohexadiene]iron,
10Cl
[57635-45-7]



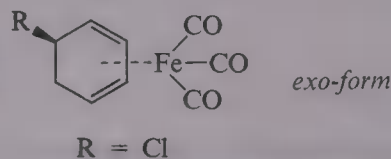
M 254.453

Obt. as a mixt. with Tricarbonyl[(1,2,3,4-η)-1-chloro-1,3-cyclohexadiene]iron, Fe-00363.

Nametkin, N.S. *et al*, *CA*, 1977, **86**, 106748 (*synth*)

C₉H₇ClFeO₃**Fe-00365**

Tricarbonyl[(1,2,3,4-η)-5-chloro-1,3-cyclohexadiene]iron,
10Cl
[68193-59-9]



M 254.453

Unstable.

Johnson, B.F.G. *et al*, *J. Organomet. Chem.*, 1978, **157**, C67 (*synth*, *ir*)

C₉H₇FFeO₃**Fe-00366**

Tricarbonyl[(1,2,3,4-η)-5-fluoro-1,3-cyclohexadiene]iron
[68193-58-8]

As Tricarbonyl[(1,2,3,4-η)-5-chloro-1,3-cyclohexadiene]iron, Fe-00365 with

R = F

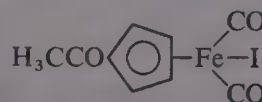
M 237.998

Stable orange substance.

Johnson, B.F.G. *et al*, *J. Organomet. Chem.*, 1978, **157**, C67 (*synth*, *ir*, *pmr*, *cmr*, *ms*)

C₉H₇FeIO₃**Fe-00367**

[(1,2,3,4,5-η)-1-Acetyl-2,4-cyclopentadien-1-yl]dicarbonyl-
iodoiron
(Acetylcyclopentadienyl)irondicarbonyl iodide



M 345.904

No phys. props. reported.

Fuchs, B. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 5293 (*synth*)

C₉H₇FeNO₂**Fe-00368**

Dicarbonyl(cyano-C)[(1,2,3,4,5-η)-2,4-cyclohexadien-
1-yl]iron

Dicarbonylcyanocyclohexadienylumiron, 8Cl

As Dicarbonyl[(1,2,3,4,5-η)-2,4-cyclohexadien-1-yl]iodoiron, Fe-00285 with

X = CN

M 217.007

Unstable yellow cryst. Mp 90-1° dec.

Hashmi, M.A. *et al*, *J. Chem. Soc. (A)*, 1967, 240 (*synth*, *ir*)

C₉H₇FeNO₂**Fe-00369**

Dicarbonyl(cyanomethyl)(η⁵-2,4-cyclopentadien-1-yl)iron, 9Cl
σ-Cyanomethyl-π-cyclopentadienyliron dicarbonyl
[33308-63-3]

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron,
Fe-00173 with

X = -CH₂CN

M 217.007

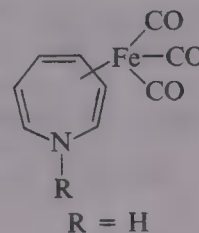
Orange-yellow cryst. (pet. ether). Mp 123°.

Green, M.L.H. *et al*, *J. Chem. Soc.*, 1963, 2976 (*synth*, *ir*, *pmr*)

Green, J.C. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 1698 (*pe*)

C₉H₇FeNO₃**Fe-00370**

[(2,3,4,5-η)-1H-Azepine]tricarbonyliron, 9Cl
[12193-34-9]



M 233.006

Orange air-sensitive cryst. Mp 41-2°. Subl. at 40° *in vacuo*.

Fischer, E.O. *et al*, *Z. Anorg. Allg. Chem.*, 1965, **341**, 137 (*synth*, *pmr*, *ir*)

Gieren, A. *et al*, *Acta Crystallogr., Sect. B*, 1972, **28**, 2766 (*struct*)

C₉H₇FeNO₃**Fe-00371**

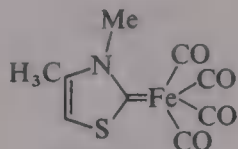
Tricarbonyl[(2,3,4,5-η)-2,4-hexadienenitrile]iron
(Sorbitrile)tricarbonyliron

As Tricarbonyl[(2,3,4,5-η)-2,4-hexadienedial]iron, Fe-
00358 with

R = CH₃, R' = CN

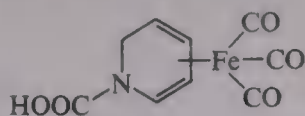
M 233.006
syn,syn-form
 Yellow liq.
 King, R.B. *et al*, *J. Inorg. Nucl. Chem.*, 1961, **16**, 233 (*synth, ir*)

C₉H₇FeNO₄S **Fe-00372**
Tetracarbonyl[3,4-dimethyl-2(3*H*)-thiazolidene]iron, 9Cl
 [52324-44-4]



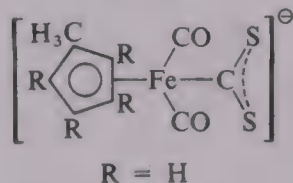
M 281.066
 Air-sensitive yellow cryst. (hexane). Mp 77-8°.
 Fraser, P.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 760 (*synth, ir, pmr, ms*)
 Green, M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 939 (*synth, ir, pmr*)

C₉H₇FeNO₅ **Fe-00373**
Tricarbonyl[(3,4,5,6-η)-1(2*H*)-pyridinecarboxylic acid]iron



M 265.005
 Free acid not known.
Me ester: [57973-18-9]. (N-Carbomethoxy-1,2-dihydropyridine)tricarbonyliron.
 C₁₀H₉FeNO₅ M 279.032
 Yellow cryst. Mp 42-4°.
Et ester: [57973-17-8]. (N-Carboethoxy-1,2-dihydropyridine)tricarbonyliron.
 C₁₁H₁₁FeNO₅ M 293.059
 Yellow oil.
 Alper, H., *J. Organomet. Chem.*, 1975, **96**, 95 (*synth, ir, pmr, ms*)

C₉H₇FeO₂S₂[⊖] **Fe-00374**
Dicarbonyl(dithiocarboxylato)[(1,2,3,4,5-η)-1-methyl-2,4-cyclopentadien-1-yl]ferrate(1-), 9Cl



R = H

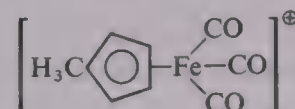
M 267.120 (ion)
 Dark-red.
K salt: [59654-49-8].
 C₉H₇FeKO₂S₂ M 306.218
 Not isol., generated and used *in situ*.
 Ellis, J.E. *et al*, *Inorg. Chem.*, 1976, **15**, 2031 (*synth, use, ir*)

C₉H₇FeO₃[⊕] **Fe-00375**
Tricarbonyl[(1,2,3,4,5-η)-2,4-cyclohexadien-1-yl]iron(1+), 9Cl
Cyclohexadienyltricarbonyliron
 [49654-90-2]



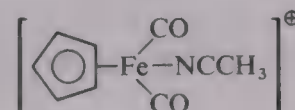
M 219.000 (ion)
Tribromide:
 C₉H₇Br₃FeO₃ M 458.712
 Yellow cryst. Sol. THF, Me₂CO, insol. H₂O.
Tetrafluoroborate: [33678-01-2].
 C₉H₇BF₄FeO₃ M 305.803
 Yellow cryst.
 Fischer, E.O. *et al*, *Angew. Chem.*, 1960, **72**, 919 (*synth*)
 Birch, A.J. *et al*, *J. Chem. Soc. (A)*, 1968, 332 (*synth, pmr*)
 Birch, A.J. *et al*, *Aust. J. Chem.*, 1976, **29**, 1671 (*cmr*)
 Nametkin, N.S. *et al*, *Rocz. Chem.*, 1976, **50**, 1499; *CA*, **86**, 106748 (*synth*)
 Olah, G.A. *et al*, *J. Org. Chem.*, 1976, **41**, 2383 (*cmr*)
 Birch, A.J. *et al*, *Tetrahedron Lett.*, 1980, **21**, 3499 (*synth*)

C₉H₇FeO₃[⊕] **Fe-00376**
Tricarbonyl[(1,2,3,4,5-η)-1-methyl-2,4-cyclopentadien-1-yl]iron(1+)
(η⁵-Methylcyclopentadienyl)tricarbonyliron(1+)



M 219.000 (ion)
Tetraphenylborate:
 C₃₃H₂₇BF₄FeO₃ M 538.232
 Yellow cryst. (Me₂CO).
 Haines, R.J. *et al*, *J. Chem. Soc. (A)*, 1970, 2341 (*synth, ir, pmr*)
 Graham, W.A.G. *et al*, *Inorg. Chem.*, 1971, **10**, 1159 (*synth, ir*)

C₉H₈FeNO₂[⊕] **Fe-00377**
(Acetonitrile)dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron(1+), 9Cl



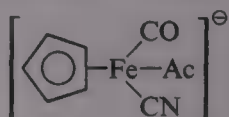
M 218.015 (ion)
Tetrafluoroborate: [32824-71-8].
 C₉H₈BF₄FeNO₂ M 304.818
 Yellow cryst. (Me₂CO/Et₂O); air-sensitive in soln. Dec. at 105°.
Hexafluorophosphate: [32662-23-0].
 C₉H₈F₆FeNO₂P M 362.979
 Yellow cryst. (Me₂CO/Et₂O). Mp 142°.
 Treichel, P.M. *et al*, *Inorg. Chem.*, 1966, **5**, 1177 (*synth, ir, pmr*)
Inorg. Synth., 1970, **12**, 41 (*synth*)
 Connelly, N.G. *et al*, *J. Organomet. Chem.*, 1972, **38**, 385 (*synth*)
 Bancroft, G.M. *et al*, *Can. J. Chem.*, 1974, **52**, 782 (*synth, ir, cmr, mössbauer*)
 Grant, M.E. *et al*, *J. Coord. Chem.*, 1979, **9**, 205 (*synth, ir, mössbauer*)
 Fadel, S. *et al*, *Z. Anorg. Allg. Chem.*, 1979, **453**, 98 (*synth, struct*)
 Schmidt, E. *et al*, *J. Organomet. Chem.*, 1981, **209**, 373 (*synth*)

C₉H₈FeNO₂[−]

Fe-00378

Acetylcarbonyl(cyano-C)(η⁵-2,4-cyclopentadien-1-yl)fer-
rate(1−), 9Cl

Acetylcarbonyl-π-cyclopentadienyliron cyanide(1−)



M 218.015 (ion)

K salt: [36472-54-5].

C₉H₈FeKNO₂ M 257.113Yellow cryst. (MeOH/Et₂O).

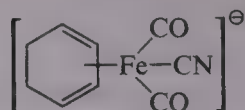
Tetraphenylarsonium salt:

C₃₃H₂₈AsFeNO₂ M 601.358Yellow needles (THF/Et₂O/pentane).Kruck, T. *et al*, *Chem. Ber.*, 1972, **105**, 1174 (*synth*, *ir*, *pmr*)C₉H₈FeNO₂[−]

Fe-00379

Dicarbonyl(cyano-C)((1,2,3,4-η)-1,3-cyclohexadiene)fer-
rate(1−), 9Cl

[73435-05-9]



M 218.015 (ion)

Fluxional in soln. Precursor for isonitrile complexes.

Na salt: [57481-97-7].

C₉H₈FeNNaO₂ M 241.004

Pale-yellow needles.

Behrens, H. *et al*, *Z. Anorg. Allg. Chem.*, 1975, **416**, 193 (*synth*, *ir*, *pmr*)Moll, M. *et al*, *Z. Anorg. Allg. Chem.*, 1979, **458**, 202 (*pmr*, *cmr*)Behrens, H. *et al*, *J. Organomet. Chem.*, 1980, **192**, 389 (*use*)C₉H₈FeNO₂[⊕]

Fe-00380

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(isocyanon.ethane)-
iron(1+), 9ClDicarbonyl-π-cyclopentadienyl(methyl isonitrile)-
iron(1+). Dicarbonyl-π-cyclopentadienyl(methyl
isocyanide)iron(1+)As Amminedicarbonyl(η⁵-2,4-cyclopentadien-1-yl)-
iron(1+), Fe-00220 with

X = MeNC−

M 218.015 (ion)

Iodide: [53419-34-4].

C₉H₈FeINO₂ M 344.919

Yellow. Mp 105° dec.

Hexafluorophosphate: [56943-25-0].

C₉H₈F₆FeNO₂P M 362.979

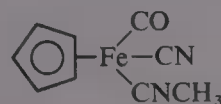
Yellow needles (EtOH). Mp 152-4° dec.

Dineen, J.A. *et al*, *J. Organomet. Chem.*, 1974, **71**, 77 (*synth*, *ir*, *pmr*)McCormick, F.B. *et al*, *Inorg. Chem.*, 1979, **18**, 1231 (*synth*)Johnson, B.V. *et al*, *Inorg. Chem.*, 1979, **18**, 1796 (*ir*, *mössbauer*)Fehlhammer, W.P. *et al*, *J. Organomet. Chem.*, 1980, **191**, 153 (*synth*, *ir*)C₉H₈FeN₂O

Fe-00381

Carbonyl(cyano-C)(η⁵-2,4-cyclopentadien-1-yl)(isocyanom-
ethane)iron, 9ClCarbonylciano-π-cyclopentadienyl(methyl isocyanide)-
iron. (η⁵-Cyclopentadienyl)carbonylciano(methyl iso-
cyanide)iron. π-Cyclopentadienylcarbonyl(methyl isoni-
trile)iron cyanide

[53419-35-5]



M 216.022

Orange-yellow solid. Mp 240° dec.

Dineen, J.A. *et al*, *J. Organomet. Chem.*, 1974, **71**, 77 (*synth*, *ir*, *pmr*)Johnson, B.V. *et al*, *Inorg. Chim. Acta*, 1979, **32**, 243 (*synth*, *ir*, *pmr*, *cmr*)C₉H₈FeN₂O₃

Fe-00382

Tricarbonyl[(4,5,6,7-η)-3-methyl-1H-1,2-diazepine]iron, 9Cl

[51187-46-3]

As Tricarbonyl[(4,5,6,7-η)-1H-1,2-diazepine]iron, Fe-
00267 withR = H, R' = CH₃

M 248.021

Yellow cryst., orange plates (Et₂O). Mp 99° (93-4°).

I-Ac:

C₁₁H₁₀FeN₂O₄ M 290.058

Yellow cryst. (pet. ether). Mp 112-3°.

Carty, A.J. *et al*, *J. Organomet. Chem.*, 1971, **32**, 241 (*synth*, *pmr*, *ir*, *ms*, *uv*, *mössbauer*)Carty, A.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 6835; *Inorg. Chem.*, 1976, **15**, 601 (*synth*, *pmr*, *ms*, *ir*)C₉H₈FeN₂O₃

Fe-00383

Tricarbonyl[(4,5,6,7-η)-5-methyl-1H-1,2-diazepine]iron, 9Cl

[51187-48-5]

M 248.021

Yellow cryst. Mp 97°.

I-Ac:

C₁₁H₁₀FeN₂O₄ M 290.058

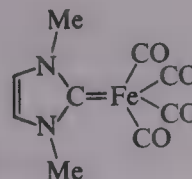
Yellow cryst. (pet. ether). Mp 138-40°.

Carty, A.J. *et al*, *J. Organomet. Chem.*, 1971, **32**, 241 (*synth*, *ir*, *pmr*, *uv*, *ms*, *mössbauer*)Carty, A.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 6835 (*synth*, *ir*, *pmr*)C₉H₈FeN₂O₄

Fe-00384

Tetracarbonyl(1,3-dihydro-1,3-dimethyl-2H-imidazol-2-yl-
dene)iron, 10Cl

[36570-19-1]



M 264.020

Yellow cryst. (hexane). Mp 66°. Subl. at 65° *in vacuo*.Öfele, K. *et al*, *Chem. Ber.*, 1972, **105**, 529 (*synth*, *pmr*, *ir*)

Huttner, G. *et al*, *Chem. Ber.*, 1972, **105**, 2714 (*struct*)
 Müller, J. *et al*, *J. Organomet. Chem.*, 1974, **82**, 383 (*ms*)
 Böhm, M.C. *et al*, *Chem. Ber.*, 1980, **113**, 3629 (*pe*)

C₉H₈FeO₂**Fe-00385**

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ethenyliron, η^1
 Dicarbonyl- π -cyclopentadienylvinyliron, η^1 . (η^5 -Cyclopentadienyl)dicarbonylvinyliron. σ -Vinyl- π -cyclopentadienyliron dicarbonyl

[12152-71-5]

As Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)
 (difluorophosphinothioyl-*P*)iron, Fe-00189 with



M 204.008

Orange liq. or yellow cryst. (pentane). Mp <15°.

King, R.B. *et al*, *J. Organomet. Chem.*, 1964, **2**, 15 (*synth*, *ir*, *pmr*)

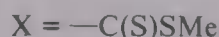
C₉H₈FeO₂S₂**Fe-00386**

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)((methylthio)thiooxomethyl)iron, η^1 Cl, η^1 Cl

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)((methylthio)thiocarbonyl)iron

[59654-63-6]

As Bromodicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron,
 Fe-00173 with



M 268.128

Air-stable brown cryst. Mp 72°.

Wnuk, T.A. *et al*, *Inorg. Chem.*, 1977, **16**, 1173 (*ir*)
Inorg. Synth., 1977, **17**, 100 (*synth*, *ir*, *pmr*)

C₉H₈FeO₂S₃**Fe-00387**

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(methyltrithiocarbonato-*S*)iron

(Hydrogen trithiocarbonato)dicarbonylcyclopentadienyliron methyl ester

As Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)
 (difluorophosphinothioyl-*P*)iron, Fe-00189 with



M 300.188

Orange-red cryst. (CH₂Cl₂/pet. ether). Mp 104.5°.

Bruce, R. *et al*, *J. Organomet. Chem.*, 1966, **6**, 67 (*synth*, *ir*, *pmr*)

C₉H₈FeO₃**Fe-00388**

Acetyldicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, η^1 Cl

Acetyl- π -cyclopentadienyliron dicarbonyl

[12108-22-4]

As Bromodicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron,
 Fe-00173 with



M 220.007

Orange cryst. Mp 56-7°.

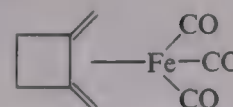
Piper, T.S. *et al*, *J. Inorg. Nucl. Chem.*, 1956, **3**, 104 (*synth*)
 King, R.B., *J. Am. Chem. Soc.*, 1963, **85**, 1918 (*synth*, *ir*)
 King, R.B. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 1417 (*ms*)
 Ingletto, G. *et al*, *J. Organomet. Chem.*, 1973, **56**, 335 (*mössbauer*, *ir*)
 Weber, L., *J. Organomet. Chem.*, 1976, **122**, 69 (*ir*, *pmr*)
 Kuhlmann, E.J. *et al*, *Inorg. Chim. Acta*, 1979, **34**, L193 (*cmr*)

C₉H₈FeO₃**Fe-00389**

[η^4 -1,2-Bis(methylene)cyclobutane]tricarbonyliron, η^1 Cl

Tricarbonyl(1,2-dimethylenecyclobutane)iron

[51509-75-2]



M 220.007

Yellow liq. Bp_{0.01} 40°.

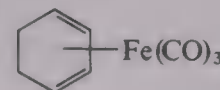
King, R.B. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 2409 (*synth*, *pmr*, *ir*, *cmr*, *ms*)

C₉H₈FeO₃**Fe-00390**

Tricarbonyl(1,2,3,4- η)-1,3-cyclohexadieneiron, η^1 Cl

1,3-Cyclohexadienetricarbonyliron

[12152-72-6]



M 220.007

Yellow oil. Mp 8-9°. Bp_{0.4} 66°.

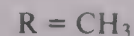
Birch, A.J. *et al*, *J. Chem. Soc. (A)*, 1968, 332 (*synth*, *pmr*)
 Olah, G.A. *et al*, *J. Org. Chem.*, 1976, **41**, 2383 (*synth*)
 Pearson, A.J., *Aust. J. Chem.*, 1976, **29**, 1679 (*cmr*)
 Johnson, B.F.G. *et al*, *J. Organomet. Chem.*, 1977, **141**, 319 (*cmr*, *pmr*)

C₉H₈FeO₃**Fe-00391**

Tricarbonyl[(1,2,3,4- η)-1,2-dimethyl-1,3-cyclobutadiene]iron, η^1 Cl

[32610-51-8]

As Tricarbonyl(η^4 -1,2-diiodo-1,3-cyclobutadiene)iron,
 Fe-00147 with



M 220.007

Bright-yellow liq. Mp -11° to -10°. Bp_{0.1} 40°.

Brune, H.A. *et al*, *J. Organomet. Chem.*, 1968, **12**, 485 (*synth*, *ir*, *pmr*)
 Brune, H.A. *et al*, *Z. Naturforsch., B*, 1968, **23**, 1184 (*nmr*)
 Brune, H.A. *et al*, *Z. Naturforsch., B*, 1971, **26**, 68 (*ir*)
 Schmidt, E.K.G., *Chem. Ber.*, 1974, **107**, 2440 (*synth*)
 Berens, G. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 7076 (*synth*, *ir*, *pmr*)

C₉H₈FeO₃**Fe-00392**

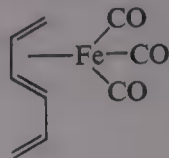
Tricarbonyl[(1,2,3,4- η)-1-ethyl-1,3-cyclobutadiene]iron, η^1 Cl

[52445-10-0]

As (η^4 -1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with



M 220.007

Orange oil. Bp_{2.5} 58-60°.Pruitt, P.L. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1977, 907
(*synth*, *pmr*)**C₉H₈FeO₃****Fe-00393****Tricarbonyl[(1,2,3,4-η)-1,3,5-hexatriene]iron, 9Cl**

M 220.007

syn-form [50277-87-7]Volatile orange liq. Bp_{0.8} 53-4°, Bp_{0.05} 48°.Murdoch, H.D. *et al*, *Helv. Chim. Acta*, 1963, **46**, 1588 (*synth*, *ir*)Anderson, M. *et al*, *J. Organomet. Chem.*, 1973, **56**, 307 (*synth*, *pmr*, *cmr*)Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1977, 794
(*synth*, *pmr*, *cmr*, *ir*)McArdle, P. *et al*, *J. Chem. Soc., Dalton Trans.*, 1978, 1678
(*synth*, *pmr*)**C₉H₈FeO₃S****Fe-00394****Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(methoxythioxomethyl)iron, 9Cl***Dicarbonyl-π-cyclopentadienyl(methoxythiocarbonyl)iron*

[32801-01-7]

As Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)
(difluorophosphinothioyl-*P*)iron, Fe-00189 with

M 252.067

Red-brown cryst. (CH₂Cl₂/hexane).Busetto, L. *et al*, *J. Organomet. Chem.*, 1969, **18**, 213 (*synth*, *ir*)**C₉H₈FeO₄****Fe-00395****(η⁴-1-Acetyl-2-methylene-1,3-propanediyl)tricarbonyliron, 10Cl***Tricarbonyl[η⁴-2-(2-oxopropylidene)-1,3-propanediyl]iron. (Acetyltrimethylenemethane)tricarbonyliron*

[61351-15-3]

As Tricarbonyl[η⁴-2-(oxoethylidene)-1,3-propanediyl]iron, Fe-00273 with

M 236.007

Yellow oil. Bp_{0.5} 44-5° (Bp_{0.05} 55-9°).Ehrlich, K. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 2464 (*synth*, *ir*, *pmr*)Magyar, E.S. *et al*, *J. Organomet. Chem.*, 1976, **116**, 99 (*cmr*)Bonazza, B.R. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 4100 (*synth*, *ir*, *pmr*)**C₉H₈FeO₄****Fe-00396****Dicarbonyl(carboxymethyl)(η⁵-2,4-cyclopentadien-1-yl)iron**
*σ-(Carboxymethyl)-π-cyclopentadienyliron dicarbonyl*As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron,
Fe-00173 with

M 236.007

Orange-brown cryst. (C₆H₆). Mp 167°.Green, M.L.H. *et al*, *J. Chem. Soc. (A)*, 1969, 1309 (*synth*, *cryst struct*, *pmr*, *ir*)**C₉H₈FeO₄****Fe-00397****Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(methoxycarbonyl)-iron, 9Cl***(Carbomethoxy)(η⁵-cyclopentadienyl)dicarbonyliron. σ-(Methoxycarbonyl)-π-cyclopentadienyliron dicarbonyl*

[12152-73-7]

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron,
Fe-00173 with

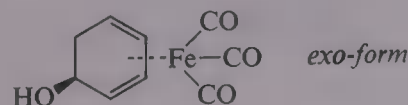
M 236.007

Yellow-orange cryst. Mp 34-6°.

King, R.B. *et al*, *J. Organomet. Chem.*, 1966, **5**, 341 (*synth*, *ir*, *pmr*)Weber, L., *J. Organomet. Chem.*, 1976, **122**, 69 (*ir*, *pmr*)Eilbracht, P. *et al*, *Chem. Ber.*, 1981, **114**, 1559 (*ir*, *cmr*)**C₉H₈FeO₄****Fe-00398****Tricarbonyl[(1,2,3,4-η)-1,3-cyclobutadiene-1-ethanol]iron, 9Cl***Tricarbonyl[(2-hydroxyethyl)-1,3-cyclobutadiene]iron*
[38599-35-8]As (η⁴-1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with

M 236.007

Yellow liq.

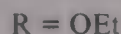
Mauldin, C.H. *et al*, *Tetrahedron Lett.*, 1972, 2955 (*synth*, *pmr*)**C₉H₈FeO₄****Fe-00399****Tricarbonyl[(2,3,4,5-η)-2,4-cyclohexadien-1-ol]iron, 9Cl**
[12306-93-3]

M 236.007

exo-form [62929-40-2]White cryst. (Et₂O). Mp 48-50°.**endo-form** [53110-60-4]White whisker-like cryst. (Et₂O). Mp 94-5°.Braye, E.H. *et al*, *J. Organomet. Chem.*, 1965, **3**, 38.Birch, A.J. *et al*, *J. Chem. Soc. (A)*, 1968, 332 (*synth*, *pmr*)Johnson, B.F.G. *et al*, *J. Organomet. Chem.*, 1977, **127**, C37
(*synth*)Reddy, B.R. *et al*, *Tetrahedron Lett.*, 1980, **21**, 3639 (*synth*)**C₉H₈FeO₄****Fe-00400****Tricarbonyl[(1,2,3,4-η)-1-ethoxy-1,3-cyclobutadiene]iron, 10Cl**

[79311-46-9]

As (η^4 -1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with



M 236.007

Gisi, A.V. *et al*, *J. Organomet. Chem.*, 1981, **215**, 221 (*props*)

C₉H₈FeO₄

Fe-00401

Tricarbonyl[(2,3,4,5- η)-2,4-hexadienyl]iron, 9Cl
(Sorbaldehyde)iron tricarbonyl
[12125-70-1]

As Tricarbonyl[(2,3,4,5- η)-2,4-hexadienedial]iron, Fe-00358 with



M 236.007

(+)-*syn, syn-form* [34872-45-2]

Red oil. $[\alpha]_D +40^\circ$ (Me₂CO).

(-)-*syn, syn-form* [34872-46-3]

Red oil. $[\alpha]_D -60^\circ$ (Me₂CO).

(±)-*syn, syn-form* [32699-34-6]

Yellow cryst. (Et₂O) or orange liq. Mp 26-7°. Bp_{1.0} 102-4°.

2,4-Dinitrophenylhydrazones: Red needles (EtOAc/EtOH). Mp 192-3° dec.

Mahler, J.E. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 3955 (*synth, ir*)

Musco, A. *et al*, *Inorg. Chim. Acta*, 1971, **5**, 157 (*resoln, uv, cd*)

Brookhart, M. *et al*, *J. Organomet. Chem.*, 1972, **42**, 441; 1979, **164**, 193 (*pmr*)

C₉H₈FeO₄

Fe-00402

Tricarbonyl[(3,4,5,6- η)-3,5-hexadien-2-one]iron, 9Cl
(3,5-Hexadien-2-one)tricarbonyliron, 8Cl. (1-Acetylbutadiene)iron tricarbonyl. (1,3-Hexadien-5-one)iron tricarbonyl

As (η^4 -1-Bromo-1,3-butadiene)tricarbonyliron, Fe-00174 with



M 236.007

(+)-*syn-form* [34872-48-5]

Yellow cryst. (pentane). Mp <25°. $[\alpha]_D +237^\circ$ (Me₂CO).

(±)-*syn-form* [41627-32-1]

Yellow or orange cryst. (pet. ether). Mp 23°. Bp_{0.2} 70-3°, Bp_{0.008} 33-7°.

(±)-*anti-form* [41627-31-0]

Deep-orange oil.

Greaves, E.O. *et al*, *J. Chem. Soc., Chem. Commun.*, 1969, 1124 (*synth, ir, pmr*)

Anisimov, K.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1970, 2533 (*ir*)

Musco, A. *et al*, *Inorg. Chim. Acta*, 1971, **5**, 157 (*synth, ir, cd*)

Graf, R.E. *et al*, *J. Organomet. Chem.*, 1976, **122**, 377 (*synth, pmr, ms*)

Frederiksen, J.S. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 3863 (*synth*)

C₉H₈FeO₄

Fe-00403

Tricarbonyl[(1,2,3,4- η)- α -methyl-1,3-cyclobutadiene-1-methanol]iron, 10Cl
(α -Hydroxyethyl)cyclobutadieneiron tricarbonyl. 1-(Tricarbonyl-1,3-cyclobutadieneiron)-1-hydroxyethane

[58396-63-7]

As (η^4 -1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with



M 236.007

(±)-*form*

Pale-yellow cryst. Mp 34-6°.

Eschbach, C.S. *et al*, *J. Organomet. Chem.*, 1976, **104**, 363

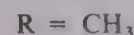
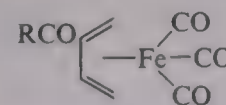
(*synth, pmr, cmr*)

Pruitt, P.L. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1977, 907 (*pmr*)

C₉H₈FeO₄

Fe-00404

Tricarbonyl(η^4 -3-methylene-4-penten-2-one)iron, 10Cl
Tricarbonyl[η^4 -(2-acetyl-1,3-butadiene)]iron
[12082-23-4]



M 236.007

Yellow-orange oil.

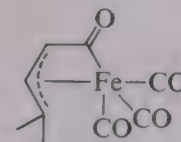
Gibson, D.H. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 720 (*synth, pmr*)

Franck-Neumann, M. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1981, **20**, 864 (*synth, pmr, ir*)

C₉H₈FeO₄

Fe-00405

Tricarbonyl[(1,2,3,4- η)-4-methyl-1,3-pentadien-1-one]iron, 10Cl
Tricarbonyl(η^3 : η^1 -1,1-dimethylallylcarbonyl)iron. Tricarbonyl[(1,1-dimethylvinyl)ketene]iron. Tricarbonyl(4,4-dimethyl-1,3-butadienone)iron
[68182-16-1]



M 236.007

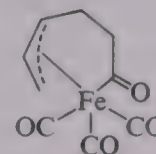
Yellow cryst. (pentane or by subl.). Mp 58-9°. Bp_{0.001} 40° subl.

Binger, P. *et al*, *J. Organomet. Chem.*, 1978, **159**, 63 (*synth, ir, pmr, ms, struct*)

C₉H₈FeO₄

Fe-00406

Tricarbonyl[(1,2,3,6- η)-6-oxo-2-hexene-1,6-diyl]iron
[52487-16-8]



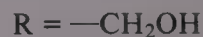
M 236.007

Yellow cryst. (pentane). Dec. at 25° to give Tricarbonyl[(1,2,3,5- η)-2-pentene-1,5-diyl]iron, Fe-00303.

Aumann, R., *J. Am. Chem. Soc.*, 1974, **96**, 2631 (*synth, ir, pmr*)

C₉H₈FeO₅ Fe-00407**Tricarbonyl[(1,2,3,4-η)-1,3-cyclobutadiene-1,2-dimethanol]iron, 9Cl***Tricarbonyl[1,2-bis(hydroxymethyl)-1,3-cyclobutadiene]iron*

[57515-21-6]

As Tricarbonyl(η⁴-1,2-diiodo-1,3-cyclobutadiene)iron, Fe-00147 with

M 252.006

Pale-yellow needles (hexane). Mp 66-7°. Bp_{0.05} 80-100° subl.Berens, G. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 7076 (*synth*, *ir*, *pmr*)**C₉H₈FeO₅ Fe-00408****Tricarbonyl[(2,3,4,5-η)-2,4-hexadienoic acid]iron***(Sorbic acid)iron tricarbonyl*

[12152-74-8]

As Tricarbonyl[(2,3,4,5-η)-2,4-hexadienedial]iron, Fe-00358 with



M 252.006

(+)-syn,syn-form [32648-44-5]Red-orange cryst. [α]_D²⁰ +213° (c, 0.22 in Me₂CO).*Me ester*: [74219-69-5].C₁₀H₁₀FeO₅ M 266.033[α]_D +28° (CHCl₃).**(-)-syn,syn-form** [34872-42-9][α]_D²⁰ -204° (c, 0.22 in Me₂CO).*Me ester*: [12214-71-0]. [α]_D²⁰ -205°.**(±)-syn,syn-form**Yellow needles or red-orange cryst. Mp 198-9° dec. (182° dec.). pK_a 7.25.*Me ester*: [33593-81-6]. (*Methyl sorbate*)iron tricarbonyl. Yellow solid. Mp 27°.*Et ester*: [53110-58-0]. (*Ethyl sorbate*)iron tricarbonyl.C₁₁H₁₂FeO₅ M 280.060Yellow cryst. (2-methylpentane) or red cryst. Mp 49-51°, 66-7°. Bp₂ 90-110°.*Amide*: [33593-82-7]. (*Sorbamide*)iron tricarbonyl.C₉H₉FeNO₄ M 251.021Yellow solid (2-methylpentane). Mp 132-4°. Bp_{0.1} 100° subl.*Nitrile*: see Tricarbonyl[(2,3,4,5-η)-2,4-hexadienenitrile]iron, Fe-00371King, R.B. *et al*, *J. Inorg. Nucl. Chem.*, 1961, **16**, 233 (*synth*, *ir*)Pettit, R. *et al*, *J. Chem. Ed.*, 1963, **40**, 175.Cais, M. *et al*, *J. Organomet. Chem.*, 1966, **5**, 370 (*synth*, *uv*, *ir*)Eiss, R., *Inorg. Chem.*, 1970, **9**, 1650 (*struct*)Musco, A. *et al*, *Inorg. Chim. Acta*, 1971, **5**, 157 (*resoln*, *cd*)Aumann, R. *et al*, *Chem. Ber.*, 1979, **112**, 3644 (*pmr*, *ms*)Birch, A.J. *et al*, *Tetrahedron Lett.*, 1980, **21**, 1971.Jaenicke, O. *et al*, *J. Organomet. Chem.*, 1980, **187**, 361.**C₉H₈FeO₅ Fe-00409****Tricarbonyl[η⁴-2-(2-methoxy-2-oxoethylidene)-1,3-propanediyl]iron, 9Cl***Tricarbonyl[η⁴-2-(methoxycarbonylmethylene)-1,3-propanediyl]iron*

[36620-14-1]

As Tricarbonyl[η⁴-2-(oxoethylidene)-1,3-propanediyl]iron, Fe-00273 with

M 252.006

Yellow liq. Bp_{0.04} 34-7°.Ehrlich, K. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 2464 (*synth*, *ir*, *pmr*)**C₉H₈FeO₅S Fe-00410****Tricarbonyl[(2,3,4,5-η)-2,5-dimethylthiophene 1,1-dioxide]iron, 9Cl**

[37048-09-2]

As Tricarbonyl[(2,3,4,5-η)-thiophene 1,1-dioxide]iron, Fe-00164 with



M 284.066

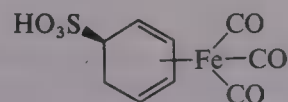
Yellow needles (Et₂O or C₆H₆). Mp 146-8°.Chow, Y.L. *et al*, *J. Chem. Soc., Chem. Commun.*, 1972, 501 (*synth*, *pmr*, *uv*, *ms*)Eekhof, J.H. *et al*, *J. Organomet. Chem.*, 1976, **11**, 349 (*pe*)Usieli, V. *et al*, *J. Organomet. Chem.*, 1979, **165**, 357 (*synth*, *pmr*, *ir*, *ms*)**C₉H₈FeO₅S Fe-00411****Tricarbonyl[(2,3,4,5-η)-3,4-dimethylthiophene 1,1-dioxide]iron, 10Cl***(3,4-Dimethylthiophene 1,1-dioxide)iron tricarbonyl*

[62524-37-2]

As Tricarbonyl[(2,3,4,5-η)-thiophene 1,1-dioxide]iron, Fe-00164 with



M 284.066

Light-yellow acicular cryst. or small yellow rhombohedra (C₆H₆/hexane). Dec. at 149-50°.Weiss, E. *et al*, *J. Inorg. Nucl. Chem.*, 1959, **11**, 42 (*synth*)Hoffmann, K. *et al*, *J. Organomet. Chem.*, 1977, **128**, 389 (*synth*, *pmr*, *ir*, *struct*)**C₉H₈FeO₆S Fe-00412****Tricarbonyl[(2,3,4,5-η)-2,4-cyclohexadiene-1-sulfonic acid]iron**

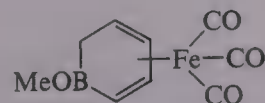
M 300.066

exo-form [57349-48-1]*4-Methylanilinum salt*: [57378-63-9].C₁₆H₁₇FeNO₆S M 407.220

Mp 159-61° dec.

Birch, A.J. *et al*, *Tetrahedron Lett.*, 1975, **21**, 1723 (*synth*)**C₉H₉BFeO₄ Fe-00413****Tricarbonyl[(3,4,5,6-η)-1,2-dihydro-1-methoxyborin]iron, 10Cl**

[72401-05-9]



M 247.825

Precursor for bis(borabenzene) iron. Air-sensitive yellow oil.

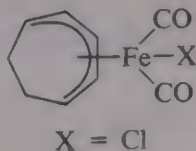
Ashe, A.J. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 7066 (*synth*, *nmr*, *pmr*, *ms*)

C₉H₉ClFeO₂

Fe-00414

Dicarbonylchloro[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iron, 10Cl

[77674-77-2]



M 240.469

Orange cryst. (Et₂O). Mp 60-5° dec.

Bockmeulen, H.A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 262 (*synth*, *ir*, *pmr*, *ms*)

C₉H₉FeIO₂

Fe-00415

Dicarbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iodoiron, 9Cl

Iododicarbonyl- π -cycloheptadienyliron

[12108-27-9]

As Dicarbonylchloro[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iron, Fe-00414 with

X = I

M 331.920

Maroon cryst. (CHCl₃/pet. ether). Mp 90-1°.

Dauben, H.J. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 497 (*synth*, *pmr*)

Hashmi, M.A. *et al*, *J. Chem. Soc. (A)*, 1967, 240 (*synth*, *ir*)

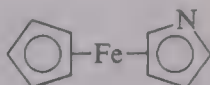
C₉H₉FeN

Fe-00416

(η^5 -2,4-Cyclopentadien-1-yl)(η^5 -1H-pyrrol-1-yl)iron, 10Cl

Azaferrocene

[11077-12-6]



M 187.024

Orange cryst. Mp 112°. Sublimes.

Joshi, K.K. *et al*, *J. Organomet. Chem.*, 1961, **1**, 471 (*synth*, *ir*)

King, R.B. *et al*, *Inorg. Chem.*, 1964, **3**, 796 (*synth*)

Pauson, P.L. *et al*, *J. Organomet. Chem.*, 1967, **7**, 321 (*synth*)

Cataliotti, R. *et al*, *Inorg. Chem.*, 1970, **9**, 2594 (*ir*, *ms*)

King, R.B. *et al*, *J. Inorg. Nucl. Chem.*, 1970, **32**, 441 (*mössbauer*)

C₉H₉FeNO₄

Fe-00417

(4-Acetyl- π -cyclopentenyl)dicarbonylnitrosyliron, 8Cl

Dicarbonyl[4-[(1,2,3- η)-2-cyclopenten-1-yl]-4-yl]ethanone]nitrosyliron

As Dicarbonyl[(1,2,3- η)-2-cyclopenten-1-yl]nitrosyliron, Fe-00217 with

R = H₃CCO-

M 251.021

Red oil.

Chaudhari, F.M. *et al*, *J. Chem. Soc. (C)*, 1967, 2255 (*synth*, *ir*)

C₉H₉FeNO₄

Fe-00418

[(1,2,3- η)-2-Butene-1,4-diyl(methylimino)carbonyl]tricar-bonyliron, 9Cl

1-Methylaminomethyl- π -allylcarboxyiron tricarbonyl lactam

[53822-51-8]

As [(1,2,3- η)-2-Butene-1,4-diyl]oxycarbonyl]tricarboxyliron, Fe-00275 with

X = NMe

M 251.021

Yellow cryst. (CH₂Cl₂/hexane). Mp 99-100° dec.

Becker, Y. *et al*, *Tetrahedron*, 1974, **30**, 839 (*synth*, *ir*, *pmr*, *ms*)

C₉H₉FeNO₄

Fe-00419

Tetracarbonyl(2-isocyano-2-methylpropane)iron, 9Cl

(tert-Butyl isocyanide)iron tetracarbonyl. (tert-Butyl isonitrile)tetracarbonyliron

[56448-44-3]

(H₃C)₃CNCFe(CO)₄

M 251.021

Air- and light-sensitive pale-yellow cryst. Mp 53.5-54.5° (48-9°). Subl. *in vacuo*.

Cotton, F.A. *et al*, *J. Chem. Soc.*, 1960, 1440 (*ir*, *synth*)

Cotton, F.A. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 351 (*ir*)

Taylor, R.C. *et al*, *Inorg. Chem.*, 1964, **3**, 584 (*synth*, *ir*)

Cronin, D.L. *et al*, *J. Magn. Reson.*, 1975, **17**, 353 (*cmr*, *ms*)

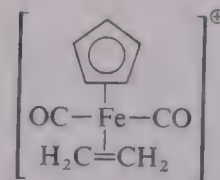
C₉H₉FeO₂⁺

Fe-00420

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^2 -ethene)iron(1+), 9Cl

η^5 -Cyclopentadienyl- η^2 -ethylenedicarbonyliron(1+). Dicarbonyl- π -cyclopentadienyl(ethylene)iron(1+), 8Cl

[12108-28-0]



M 205.016 (ion)

Tetrafluoroborate(1-): [12193-39-4].

C₉H₉BF₄FeO₂ M 291.820

Yellow cryst.

Hexafluorophosphate(1-): [12082-28-9].

C₉H₉F₆FeO₂P M 349.980

Yellow cryst. (Me₂CO/Et₂O). Mp 165° dec.

Fischer, E.O. *et al*, *Chem. Ber.*, 1961, **94**, 1200; 1962, **95**, 2063 (*synth*, *ir*)

Green, M.L.H. *et al*, *Proc. Chem. Soc.*, 1962, 74 (*synth*)

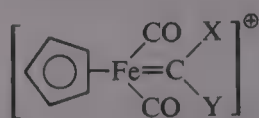
Green, M.L.H. *et al*, *J. Organomet. Chem.*, 1963, **1**, 58 (*ir*, *pmr*)

Giering, W.P. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 7170 (*synth*)

Bancroft, G.M. *et al*, *Can. J. Chem.*, 1974, **52**, 782 (*pmr*, *cmr*, *ir*, *mössbauer*)

C₉H₉FeO₃⁺

Fe-00421

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(methoxymethylene)-iron(1+), 10Cl

X = OMe, Y = H

M 221.015 (ion)

Hexafluorophosphate: [69621-12-1].

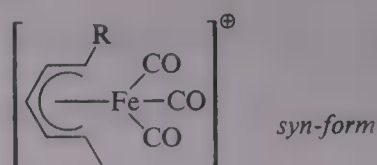
C₉H₉F₆FeO₃P M 365.979Yellow solid (Me₂CO/Et₂O). Hydrolysed in air.Cutler, A.R., *J. Am. Chem. Soc.*, 1979, **101**, 604 (synth, ir, pmr)C₉H₉FeO₃⁺

Fe-00422

Tricarbonyl[(1,2,3,4,5-η)-2,4-hexadienyl]iron(1+), 9Cl

Tricarbonyl(1-methylpentadienyl)iron(1+)

[46134-85-4]



R = H

M 221.015 (ion)

syn-form [50576-99-3]

Tetrafluoroborate: [50277-86-6].

C₉H₉BF₄FeO₃ M 307.819Yellow prisms (MeNO₂). Mp 195° dec.

Perchlorate:

C₉H₉ClFeO₇ M 320.466Yellow cryst. (MeNO₂).

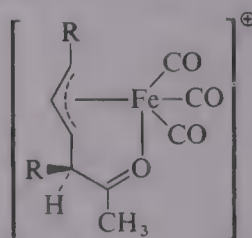
▷Explodes on melting

Mahler, J.E. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 3959 (synth, pmr, ir)Olah, G.A. *et al*, *J. Org. Chem.*, 1976, **41**, 2383; 1977, **42**, 4262 (cmr)Bayoud, R.S. *et al*, *J. Organomet. Chem.*, 1978, **150**, 75 (synth)Dobosh, P.A. *et al*, *Inorg. Chem.*, 1978, **17**, 1775 (cmr)C₉H₉FeO₄⁺

Fe-00423

Tricarbonyl[(1,2,3-η)-5-oxo-2-hexenyl-O]iron(1+)

(1-Acetonyl-π-allyl)tricarbonyliron(1+)



R = H

M 237.015 (ion)

Tetrachloroaluminate:

C₉H₉AlCl₄FeO₄ M 405.808

Yellow cryst.

Hexafluorophosphate: [38743-45-2].

C₉H₉F₆FeO₄P M 381.979

Yellow cryst. (MeCN/THF).

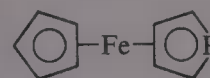
Greaves, E.O. *et al*, *J. Chem. Soc., Chem. Commun.*, 1969, 1124 (synth, ir, pmr)Hardy, A.D.U. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 2305 (struct)C₉H₉FeP

Fe-00424

(η⁵-2,4-Cyclopentadien-1-yl)(η⁵-1 H-phosphol-1-yl)iron, 10Cl

Phosphaferrocene

[63287-55-8]



M 203.991

Orange solid. Mp 152° dec.

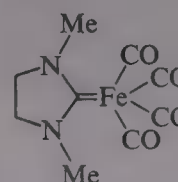
Mathey, F. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 3537 (synth, pmr, ms)Mathey, F., *J. Organomet. Chem.*, 1977, **139**, 77 (synth, pmr, cmr, nmr, ms)C₉H₁₀FeN₂O₄

Fe-00425

Tetracarbonyl(1,3-dimethyl-2-imidazolidinylidene)iron, 9Cl

(1,3-Dimethyl-2-imidazolidinylidene)tetracarbonyliron

[41755-21-9]



M 266.036

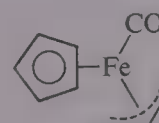
Air-sensitive yellow cryst. Mp 48-50°. Reacts with CCl₄.Cetinkaya, B. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 1827 (synth, ir, pmr)Lappert, M.F. *et al*, *J. Chem. Soc., Dalton Trans.*, 1977, 2172 (cmr, ir)C₉H₁₀FeO

Fe-00426

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)(η³-2-propenyl)iron, 9Cl

π-Allyl-π-cyclopentadienylcarbonyliron

[52326-25-7]



M 190.024

Two conformational isomers known, cf Carbonyl(η⁵-2,4-cyclopentadien-1-yl)(η³-2-propenyl)ruthenium.*exo-form*Yellow-orange solid. Mp 65° dec. Bp_{0.001} 45° subl.*endo-form*

Less stable form. Characterised spectroscopically in soln.

Green, M.L.H. *et al*, *J. Chem. Soc.*, 1963, 189 (synth, ir, pmr)Faller, J.W. *et al*, *J. Organomet. Chem.*, 1974, **65**, 395 (synth, pmr, ir)Fish, R.W. *et al*, *J. Organomet. Chem.*, 1976, **105**, 101 (synth, pmr, ir, uv)Gibson, D.H. *et al*, *J. Organomet. Chem.*, 1979, **172**, C7; 1981, **215**, 379 (synth)Worley, S.D. *et al*, *Organometallics*, 1982, **1**, 134 (pe)C₉H₁₀FeO₂

Fe-00427

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)ethyliron, 9Cl

σ-Ethyl-π-cyclopentadienyliron dicarbonyl

[32611-65-7]

As Bromodicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron,
Fe-00173 with

X = Et

M 206.024
Caramel oil.Piper, T.S. *et al*, *J. Inorg. Nucl. Chem.*, 1956, **3**, 104 (*synth*, *ir*,
pmr)
Gansow, O.A. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 3406 (*cmr*, *ir*)
Bodnar, T. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 3292 (*synth*)
Gerhartz, W. *et al*, *Justus Liebigs Ann. Chem.*, 1980, 1296 (*ir*)
Stone, J.A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1980, 2488 (*ms*)C₉H₁₀FeO₂S

Fe-00428

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(ethanethiolato)iron,
9Cl*Dicarbonyl- π -cyclopentadienyl(ethylthio)iron. Cyclo-*
pentadienyldicarbonyliron ethylmercaptide
[12108-34-8]As Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)
(difluorophosphinothioyl-*P*)iron, Fe-00189 with

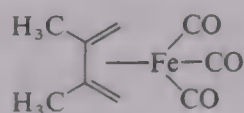
L = SEt

M 238.084
Dark-brown leaflets (Et₂O/pentane). Mp 77.5-80°.
Ahmad, M. *et al*, *J. Organomet. Chem.*, 1966, **6**, 1 (*synth*, *ir*,
pmr)C₉H₁₀FeO₃

Fe-00429

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)methoxymethyliron,
9Cl σ -(Methoxymethyl)- π -cyclopentadienyliron dicarbonyl
[12108-35-9]As Bromodicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron,
Fe-00173 withX = —CH₂OMeM 222.023
Yellow-brown oil. Bp₄ 90.5-91.5°.
Jolly, P.W. *et al*, *J. Am. Chem. Soc.*, 1966, **88**, 5044 (*synth*)
Green, M.L.H. *et al*, *J. Chem. Soc. (A)*, 1967, 1508 (*synth*, *ir*,
pmr)
Riley, P.E. *et al*, *Inorg. Chem.*, 1978, **17**, 408 (*use*)
Bodner, T. *et al*, *Inorg. Chem.*, 1982, **21**, 1275 (*synth*, *ir*, *pmr*)C₉H₁₀FeO₃

Fe-00430

Tricarbonyl[(1,2,3,4- η)-2,3-dimethyl-1,3-butadiene]iron, 9Cl
[31741-56-7]M 222.023
Yellow or orange liq. Bp₁ 35-7°, Bp_{0.35} 26°.
Reihlen, H. *et al*, *Justus Liebigs Ann. Chem.*, 1930, **482**, 161
(*synth*)
Ehrlich, K. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 2464 (*synth*,
pmr)
Busch, M.A. *et al*, *Inorg. Chem.*, 1975, **14**, 219 (*synth*, *ir*)Grevels, F.W. *et al*, *J. Organomet. Chem.*, 1976, **118**, 79 (*synth*)
Brookhart, M. *et al*, *J. Organomet. Chem.*, 1979, **164**, 193
(*synth*)
Behrens, H. *et al*, *J. Organomet. Chem.*, 1980, **192**, 389 (*pmr*)C₉H₁₀FeO₃

Fe-00431

Tricarbonyl(η^4 -1,1-dimethyl-2-methylene-1,3-propanediyl)-
iron, 9Cl

[36642-27-0]

As Tricarbonyl[η^4 -2-(oxoethylidene)-1,3-propanediyl]-
iron, Fe-00273 withR = R' = CH₃M 222.023
Bright-yellow volatile cryst.Ehrlich, K. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 2464 (*synth*,
pmr, *ir*)C₉H₁₀FeO₃

Fe-00432

Tricarbonyl[(1,2,3,4- η)-1,3-hexadiene]iron, 9Cl

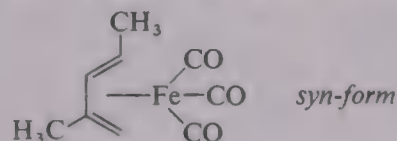
[12108-37-1]

As (η^4 -1-Bromo-1,3-butadiene)tricarbonyliron, Fe-00174
withX = —CH₂CH₃M 222.023
syn-form [71565-34-9]
Clear yellow liq. Bp_{3.5} 54-5°, Bp_{0.2} 40°.
anti-form [71565-37-2]
No phys. data reported.Emerson, G.F. *et al*, *J. Org. Chem.*, 1964, **29**, 3620 (*synth*, *ir*,
pmr)
Bayoud, R.S. *et al*, *J. Organomet. Chem.*, 1979, **174**, 297
(*synth*)
Behrens, H. *et al*, *J. Organomet. Chem.*, 1980, **192**, 389 (*pmr*)C₉H₁₀FeO₃

Fe-00433

Tricarbonyl[(2,3,4,5- η)-2,4-hexadiene]iron, 9ClAs Tricarbonyl[(2,3,4,5- η)-2,4-hexadienedial]iron, Fe-
00358 withR = R' = CH₃M 222.023
syn, syn-form [52993-12-1]
Clear yellow liq. Bp_{0.3} 45°.
syn, anti-form [52993-16-5]
Clear yellow liq. Bp_{0.25} 42°.
Emerson, G.F. *et al*, *J. Org. Chem.*, 1964, **29**, 3620 (*synth*, *pmr*,
ir)
Greaves, E.O. *et al*, *J. Chem. Soc., Chem. Commun.*, 1974, 257.
Busch, M.A. *et al*, *Inorg. Chem.*, 1975, **14**, 219 (*synth*, *ir*)
Aumann, R. *et al*, *Chem. Ber.*, 1979, **112**, 3644 (*pmr*)
Bayoud, R.S. *et al*, *J. Organomet. Chem.*, 1979, **174**, 297 (*synth*,
pmr)C₉H₁₀FeO₃

Fe-00434

Tricarbonyl[(1,2,3,4- η)-2-methyl-1,3-pentadiene]iron, 9Cl

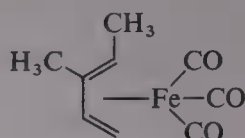
M 222.023

syn-form [52993-13-2]Deep-yellow liq. Bp_{0.2} 45°.**anti-form** [52993-14-3]

No phys. data reported.

Emerson, G.F. *et al*, *J. Org. Chem.*, 1964, **29**, 3620 (*synth*, *ir*, *pmr*)Busch, M.A. *et al*, *Inorg. Chem.*, 1975, **14**, 219 (*ir*)Gibson, D.H. *et al*, *J. Organomet. Chem.*, 1978, **155**, 221; **157**, 81 (*synth*, *cmr*)**C₉H₁₀FeO₃****Fe-00435****Tricarbonyl[(1,2,3,4-η)-3-methyl-1,3-pentadiene]iron, 9Cl**

[58356-41-5]

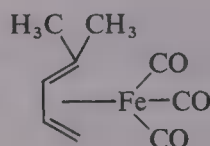


M 222.023

No phys. props. reported.

Ehrlich, K. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 2464 (*synth*, *pmr*)Pearson, A.J., *Aust. J. Chem.*, 1976, **29**, 1679 (*cmr*)**C₉H₁₀FeO₃****Fe-00436****Tricarbonyl[(1,2,3,4-η)-4-methyl-1,3-pentadiene]iron, 9Cl**

[52993-15-4]



M 222.023

Orange-red liq. Bp_{0.15} 40-3°.Kochhar, R. *et al*, *J. Organomet. Chem.*, 1966, **6**, 272 (*synth*, *pmr*, *ir*)Busch, M.A. *et al*, *Inorg. Chem.*, 1975, **14**, 219 (*synth*, *ir*)Gibson, D.H. *et al*, *J. Organomet. Chem.*, 1978, **155**, 221; **157**, 81 (*synth*, *cmr*)**C₉H₁₀FeO₄****Fe-00437****Tricarbonyl[(2,3,4,5-η)-2,4-hexadien-1-ol]iron, 9Cl***(Sorbyl alcohol)iron tricarbonyl*

[12108-39-3]

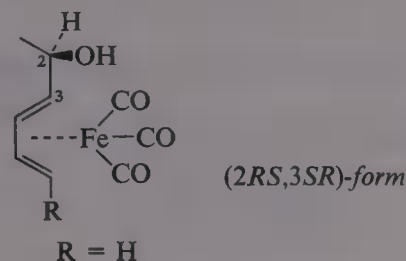
As Tricarbonyl[(2,3,4,5-η)-2,4-hexadienedial]iron, Fe-00358 with

R = CH₃, R' = CH₂OH

M 238.023

syn, syn-formOrange oil or yellow needles (pet. ether). Mp 37°. Bp₁ 100°.Mahler, J.E. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 3959 (*synth*, *ir*)Emerson, G.F. *et al*, *J. Org. Chem.*, 1964, **29**, 3620 (*pmr*)**C₉H₁₀FeO₄****Fe-00438****Tricarbonyl[(3,4,5,6-η)-3,5-hexadien-2-ol]iron, 9Cl**

[12108-40-6]



M 238.023

(2RS,3SR)-form [38888-39-0]*(±)*-syn, syn-ψ-endo-form

Pale-cream cryst. (pet. ether). Mp 61.5°.

(2RS,3SR)-form [38888-40-3]*(±)*-syn, syn-ψ-exo-form

Pale-yellow needles (pet. ether). Mp 65°.

Mahler, J.E. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 3959 (*synth*, *ir*)Greaves, E.O. *et al*, *J. Chem. Soc., Chem. Commun.*, 1969, 1124 (*synth*)Anderson, M. *et al*, *J. Organomet. Chem.*, 1973, **56**, 307 (*cmr*)Willcott, M.R. *et al*, *Org. Magn. Reson.*, 1975, **7**, 557 (*pmr*)**C₉H₁₀FeO₄****Fe-00439****Tricarbonyl[(3,4,5,6-η)-3,5-hexadien-1-ol]iron, 10Cl**As (η⁴-1-Bromo-1,3-butadiene)tricarbonyliron, Fe-00174 withX = -CH₂CH₂OH

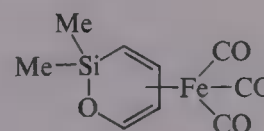
M 238.023

syn-form [63817-17-4]

Green-yellow oil.

Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1977, 794 (*synth*, *ir*, *pmr*)**C₉H₁₀FeO₄Si****Fe-00440****Tricarbonyl[(3,4,5,6-η)-2,2-dimethyl-1-oxa-2-silacyclohexa-3,5-diene]iron, 10Cl**

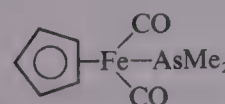
[67088-06-6]



M 266.108

Bp₄ 91-2°.Bykovets, A.A. *et al*, *Zh. Obshch. Khim.*, 1978, **48**, 930 (*synth*)**C₉H₁₁AsFeO₂****Fe-00441****Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(dimethylarsino)iron, 9Cl**[Dicarbonyl(η⁵-cyclopentadienyl)iron]dimethylarsine

[52456-38-9]

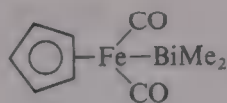


M 281.953

Red-brown oil. Mp -5° to -3°. Bp_{0.001} 44-5°.Malisch, W. *et al*, *Chem. Ber.*, 1980, **113**, 1180 (*synth*, *ir*, *pmr*)

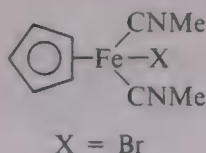
Kaul, H.A. *et al*, *J. Organomet. Chem.*, 1982, **228**, C29 (*synth, use*)

C₉H₁₁BiFeO₂ **Fe-00442**
Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(dimethylbismuthino)-iron
 [82121-00-4]



M 416.012
 Red oil. Bp_{0.0001} 50-2°.
 Kaul, H.-A. *et al*, *J. Organomet. Chem.*, 1982, **228**, C29 (*synth, ir, pmr*)

C₉H₁₁BrFeN₂ **Fe-00443**
Bromo(η⁵-2,4-cyclopentadien-1-yl)bis(isocyanomethane)iron
Bromo-π-cyclopentadienylbis(methyl isocyanide)iron, 8Cl. (η⁵-Cyclopentadienyl)bromobis(methyl isocyanide)-iron. Cyclopentadienylbis(methyl isonitrile)iron bromide
 [32629-40-6]



M 282.950
 No props. reported.
 Becker, W.D. *et al*, *Z. Naturforsch., B*, 1970, **25**, 1332 (*nmr*)
 Kumar, R. *et al*, *J. Organomet. Chem.*, 1981, **216**, C61.

C₉H₁₁FeIN₂ **Fe-00444**
(η⁵-2,4-Cyclopentadien-1-yl)iodobis(isocyanomethane)iron
Carbonyl-π-cyclopentadienyliodobis(methyl isocyanide)-iron, 8Cl. (η⁵-Cyclopentadienyl)iodobis(methyl isocyanide)iron. Cyclopentadienylbis(methyl isonitrile)iron iodide
 [32626-65-6]
 As Bromo(η⁵-2,4-cyclopentadien-1-yl)-bis(isocyanomethane)iron, Fe-00443 with

X = I

M 329.951
 No props. reported.
 Becker, W.D. *et al*, *Z. Naturforsch., B*, 1970, **25**, 1332 (*nmr*)
 Kumar, R. *et al*, *J. Organomet. Chem.*, 1981, **216**, C61.

C₉H₁₁FeNOS₂ **Fe-00445**
Carbonyl(η⁵-2,4-cyclopentadien-1-yl)(dimethylcarbami-dithioato-S,S')iron, 9Cl
Carbonyl-π-cyclopentadienyl(dimethyldithiocarbamate)iron, 8Cl. Cyclopentadienylcarbonyliron dimethyldithiocarbamate
 [12128-65-3]
 As Carbonyl(η⁵-2,4-cyclopentadien-1-yl)(methyltrithiocarbonato-S,S')iron, Fe-00297 with

X = NMe₂

M 269.159

Dark-red cryst. by subl. Mp 142° dec., 153° dec.
 Cotton, F.A. *et al*, *Inorg. Chem.*, 1964, **3**, 1398 (*synth, ir*)
 Abel, E.W. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 98 (*synth, ir, pmr*)

C₉H₁₁FeNO₅ **Fe-00446**
Tetracarbonyl[(dimethylamino)ethoxymethylene]iron, 9Cl
 [35797-91-2]

(OC)₄Fe=C(OEt)NMe₂

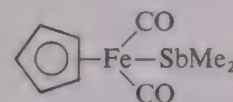
M 269.037
 Yellow-brown oil.
 Fischer, E.O. *et al*, *Chem. Ber.*, 1972, **105**, 162 (*synth, ir, pmr, ms*)
 Daub, J. *et al*, *Justus Liebigs Ann. Chem.*, 1980, 997 (*synth*)

C₉H₁₁FeO₂PS **Fe-00447**
Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(dimethylphosphinothioito-P)iron, 9Cl
(Dicarbonyl-π-cyclopentadienyliron)dimethylphosphine sulfide
 [59689-96-2]
 As Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(difluorophosphinothioyl-P)iron, Fe-00189 with

L = -P(S)Me₂

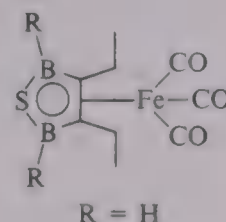
M 270.065
 Bright-yellow cryst. (CH₂Cl₂/hexane).
 Piraino, P. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 610 (*synth, ir, pmr*)

C₉H₁₁FeO₂Sb **Fe-00448**
Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(dimethylstibino)iron, 9Cl
Cyclopentadienyldicarbonyliron dimethylantimony. Dicarbonyl(η⁵-cyclopentadienyl)iron dimethylstibine
 [52571-37-6]



M 328.782
 Red oil. Mp 12-4°.
 Malisch, W. *et al*, *Chem. Ber.*, 1976, **109**, 692 (*synth, ir, pmr*)
 Kaul, H.A. *et al*, *J. Organomet. Chem.*, 1982, **228**, C29 (*use*)

C₉H₁₂B₂FeO₃S **Fe-00449**
Tricarbonyl[(1,2,3,4,5-η)-3,4-diethyl-2,5-dihydro-1,2,5-thia-diborole]iron, 10Cl
 [63339-02-6]



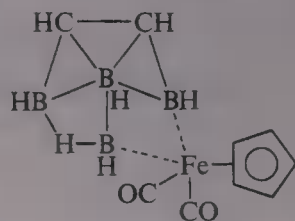
M 277.719
 Yellow liq. Bp₁ 49°.

Siebert, W. *et al*, *J. Organomet. Chem.*, 1977, **131**, 1 (*synth*, *pmr*, *nmr*, *ir*, *ms*)

C₉H₁₂B₄FeO₂

Fe-00450

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)[(2,3-η)-heptahydro-4,5-dicarbahexaborato(1-)]iron
[38999-56-3]



M 251.280

Intermed. for synthesis of (η⁵-2,4-Cyclopentadien-1-yl)-[(2,3,4,5,6-η)-heptahydro-2,5-dicarbahexaborato(1-)-H⁺]iron, Fe-00227. Bright-yellow.

Sneddon, L.G. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 7161; 1973, **95**, 6623 (*synth*, *ir*, *ms*, *pmr*, *nmr*)

C₉H₁₂FeN₂O₄

Fe-00451

[Bis(dimethylamino)methylene]tetracarbonyliron, 9Cl
[54688-85-6]



M 268.052

Pale-yellow cryst. (pentane), melting to a yellow oil. Mp 12°.

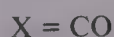
Pebler, J. *et al*, *Z. Naturforsch., B*, 1977, **32**, 1431 (*mössbauer*)
Petz, W., *J. Organomet. Chem.*, 1979, **172**, 415 (*synth*, *spectra*)

C₉H₁₂FeO

Fe-00452

Bis(η⁴-1,3-butadiene)carbonyliron, 9Cl
[32716-35-1]

As Bis(η⁴-1,3-butadiene)(phosphorous trifluoride)iron, Fe-00321 with



M 192.040

Orange-red tetragonal cryst. (pentane). Mp 130-7° dec.

Koerner von Gustorf, E. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1971, **10**, 260 (*synth*, *pmr*, *ms*)

Davidson, G. *et al*, *J. Organomet. Chem.*, 1972, **44**, 365 (*ir*)

Mag, P. *et al*, *CA*, 1972, **76**, 119657 (*mössbauer*)

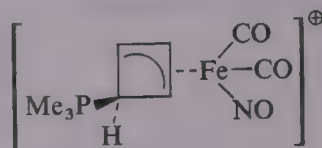
Whiting, D.A., *Cryst. Struct. Commun.*, 1972, **1**, 379 (*cryst struct*)

Williams-Smith, D.L. *et al*, *J. Am. Chem. Soc.*, 1972, **99**, 4042 (*synth*)

C₉H₁₃FeNO₃P⁺

Fe-00453

Dicarbonylnitrosyl[(1,2,3-η)-4-(trimethylphosphonio)-2-cyclobuten-1-yl]iron(1+), 10Cl



M 270.027 (ion)

Hexafluorophosphate: [53062-47-8].

C₉H₁₃F₆FeNO₃P₂ M 414.992

Red-orange cryst. (CH₂Cl₂/toluene). Mp 129-30°.

Efraty, A. *et al*, *Inorg. Chem.*, 1977, **16**, 2522 (*synth*, *pmr*, *ir*, *nmr*, *mössbauer*)

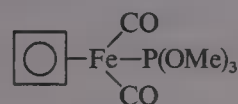
Potenza, J.A. *et al*, *Acta Crystallogr., Sect. B*, 1981, **37**, 442 (*struct*)

C₉H₁₃FeO₅P

Fe-00454

Dicarbonyl(η⁴-1,3-cyclobutadiene)(trimethyl phosphite-P)-iron, 9Cl

[53778-36-2]



M 288.019

Reddish oil. Bp 40° *in vacuo*.

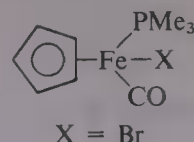
Fischler, I. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1975, **14**, 54 (*synth*, *ir*)

C₉H₁₄BrFeOP

Fe-00455

Bromocarbonyl(η⁵-2,4-cyclopentadien-1-yl)(trimethylphosphine)iron, 10Cl

[78192-45-7]



M 304.934

Green cryst. (CH₂Cl₂/pet. ether). Mp 111-7°.

Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1981, **206**, 77 (*synth*, *ir*, *pmr*)

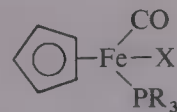
C₉H₁₄BrFeO₄P

Fe-00456

Bromocarbonyl(η⁵-2,4-cyclopentadien-1-yl)(trimethyl phosphite-P)iron

Bromocarbonyl-π-cyclopentadienyl(phosphorous acid)-iron trimethyl ester, 8Cl. Cyclopentadienylcarbonyl(trimethyl phosphite)iron bromide. (η⁵-Cyclopentadienyl)-bromocarbonyl(trimethyl phosphite)iron

[31741-58-9]



X = Br, R = OMe

M 352.932

Solid. Mp 84-5° dec.

Brown, D.A. *et al*, *Inorg. Chim. Acta*, 1970, **4**, 428 (*synth*, *ir*)

C₉H₁₄ClFeOP

Fe-00457

Carbonylchloro(η⁵-2,4-cyclopentadien-1-yl)(trimethylphosphine)iron

Cyclopentadienylcarbonyl(trimethylphosphine)iron chloride. (η⁵-Cyclopentadienyl)-carbonylchloro(trimethylphosphine)iron
[35796-59-9]

As Bromocarbonyl(η⁵-2,4-cyclopentadien-1-yl)(trimethyl phosphite-P)iron, Fe-00456 with



M 260.483

Green cryst. (C₆H₆/hexane).

Kalck, P. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1972, **274**, 66
(*synth*, *ir*, *pmr*)

C₉H₁₄ClFeO₄P**Fe-00458**

Carbonylchloro(η⁵-2,4-cyclopentadien-1-yl)(trimethyl phosphite-P)iron, 9Cl

Carbonylchloro-π-cyclopentadienyl(phosphorous acid)-iron trimethyl ester, 8Cl. Cyclopentadienylcarbonyl(trimethyl phosphite)iron chloride. (η⁵-Cyclopentadienyl)-carbonylchloro(trimethyl phosphite)iron
[31741-63-6]

As Bromocarbonyl(η⁵-2,4-cyclopentadien-1-yl)(trimethyl phosphite-P)iron, Fe-00456 with

X = Cl, R = OMe

M 308.481

Orange cryst. (C₆H₆/pet. ether).

Haines, R.J. *et al*, *J. Organomet. Chem.*, 1971, **28**, 405 (*synth*, *ir*, *pmr*)

Kalck, P. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1972, **274**, 66
(*synth*, *ir*, *pmr*)

C₉H₁₄FeIOP**Fe-00459**

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)iido(trimethylphosphine)iron, 9Cl

Cyclopentadienylcarbonyl(trimethylphosphine)iron iodide. (η⁵-Cyclopentadienyl)-carbonyliido(trimethylphosphine)iron
[57386-75-1]

As Bromocarbonyl(η⁵-2,4-cyclopentadien-1-yl)(trimethyl phosphite-P)iron, Fe-00456 with

X = I, R = Me

M 351.934

Dark-green cryst. (CH₂Cl₂/pet. ether). Mp 143-50°
(135-7°) dec.

Faller, J.W. *et al*, *J. Organomet. Chem.*, 1975, **96**, 99 (*synth*, *ir*)
Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1981, **206**, 77 (*synth*, *ir*, *pmr*)

C₉H₁₄FeIO₄P**Fe-00460**

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)iido(trimethyl phosphite-P)iron

Carbonyl-π-cyclopentadienyliido(phosphorous acid)-iron trimethyl ester, 8Cl. Cyclopentadienylcarbonyl(trimethyl phosphite)iron iodide. (η⁵-Cyclopentadienyl)-carbonyl(iido)(trimethyl phosphite)iron
[31781-71-2]

As Bromocarbonyl(η⁵-2,4-cyclopentadien-1-yl)(trimethyl phosphite-P)iron, Fe-00456 with

X = I, R = OMe

M 399.932

Orange cryst. (pet. ether). Mp 82-4°.

Brown, D.A. *et al*, *Inorg. Chim. Acta*, 1970, **4**, 428 (*synth*, *ir*)
Haines, R.J. *et al*, *J. Organomet. Chem.*, 1971, **28**, 405 (*synth*, *ir*, *pmr*)

C₉H₁₅FeOP**Fe-00461**

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)hydro(trimethylphosphine)iron, 10Cl, 9Cl

[35796-54-4]

As Bromocarbonyl(η⁵-2,4-cyclopentadien-1-yl)(trimethylphosphine)iron, Fe-00455 with

X = H

M 226.038

Yellow cryst. Mp 71.5-73°. Bp_{0.1} 60-70° subl.

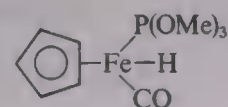
Kalck, P. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1972, **274**, 66
(*synth*, *ir*, *pmr*)

Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1981, **206**, 77
(*synth*)

C₉H₁₅FeO₄P**Fe-00462**

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)hydro(trimethyl phosphite-P)iron, 9Cl

[35796-55-5]



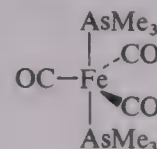
M 274.036

Amber liq. Bp_{0.1} 60°.

Kalck, P. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1972, **274**, 66
(*synth*, *ir*, *pmr*)

C₉H₁₈As₂FeO₃**Fe-00463**

Tricarbonylbis(trimethylarsine)iron, 8Cl



M 379.930

trans-form [30230-17-2]

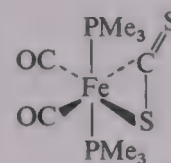
Cryst. (hexane).

Bigorgne, M., *J. Organomet. Chem.*, 1970, **24**, 211 (*synth*, *ir*)

C₉H₁₈FeO₂P₂S₂**Fe-00464**

[(C,S-η)-Carbon disulfide]dicarbonylbis(trimethylphosphine)-iron, 10Cl

[64424-58-4]



M 340.155

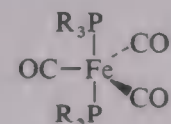
Orange cryst. (Et₂O/hexane).

Le Bozec, H. *et al*, *Inorg. Chem.*, 1978, **17**, 2568 (*synth*, *ir*, *pmr*, *nmr*, *ms*)

C₉H₁₈FeO₃P₂**Fe-00465**

Tricarbonylbis(trimethylphosphine)iron, 9Cl, 8Cl

[25921-55-5]



R = Me

M 292.034

trans-form [30230-16-1]

Air-sensitive colourless cryst. (hexane). Solns. v. air-sensitive. Mp 40°. Sublimes near r.t.

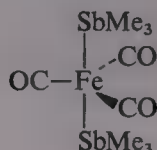
Strohmeier, W. *et al*, *Chem. Ber.*, 1969, **102**, 3613 (*synth*)

Bigorgne, M., *J. Organomet. Chem.*, 1970, **24**, 211 (*ir*, *raman*)

Pankowski, M. *et al*, *J. Organomet. Chem.*, 1976, **110**, 331 (*synth*)

Karsch, H.H. *et al*, *Chem. Ber.*, 1977, **110**, 2200 (*synth*, *nmr*)

Grobe, J. *et al*, *Z. Naturforsch., B*, 1981, **36**, 8 (*synth*)

C₉H₁₈FeO₃Sb₂**Fe-00466****Tricarbonylbis(trimethylstibine)iron, 8Cl**

M 473.586

trans-form [30230-18-3]

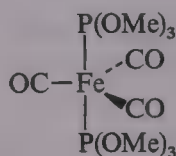
Cryst. (hexane).

Bigorgne, M., *J. Organomet. Chem.*, 1970, **24**, 211 (*synth*, *ir*, *raman*)

C₉H₁₈FeO₉P₂**Fe-00467****Tricarbonylbis(trimethyl phosphite-P)iron, 9Cl**

Tricarbonylbis(phosphorous acid)iron hexamethyl ester, 8Cl

[14949-85-0]



M 388.030

trans-form [19457-84-2]

Light-yellow cryst. (pentane). Mp 73-4°.

Pollick, P.J. *et al*, *J. Organomet. Chem.*, 1968, **14**, 469 (*synth*)

Mosbo, J.A. *et al*, *J. Magn. Reson.*, 1972, **8**, 243 (*pmr*)

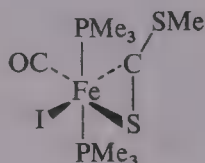
Darensbourg, D.J. *et al*, *Inorg. Chem.*, 1974, **13**, 2135 (*ir*)

Ginderow, D., *Acta Crystallogr., Sect. B*, 1974, **30**, 2798 (*struct*)

Graaf, J.L. *et al*, *Organometallics*, 1982, **1**, 837 (*ir*)

C₉H₂₁FeIOP₂S₂**Fe-00468****Carbonylido[(methylthio)thioxomethyl]bis(trimethylphosphine)iron, 10Cl**

[71004-27-8]



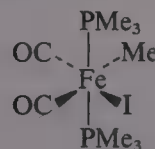
M 454.083

Purple cryst. (Et₂O/pentane). Mp 159-61°.

Touchard, D. *et al*, *Inorg. Chem.*, 1981, **20**, 1811 (*synth*, *ir*, *pmr*, *cmr*, *struct*)

C₉H₂₁FeIO₂P₂**Fe-00469****Dicarbonyliodomethylbis(trimethylphosphine)iron**

[33542-07-3]



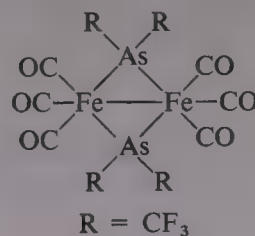
M 405.963

Dark-red cryst., mod. air-stable. Sol. polar and nonpolar solvs.

Pankowski, M. *et al*, *J. Organomet. Chem.*, 1971, **30**, 227 (*synth*, *ir*)

C₁₀As₂F₁₂Fe₂O₆**Fe-00470****Bis[μ-[bis(trifluoromethyl)arsino]]hexacarbonyldiiron**

Bis-μ-[bis(trifluoromethyl)arsenido]hexacarbonyldiiron

R = CF₃

M 705.624

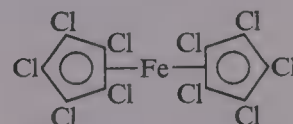
Dark-red cryst. Mp 160-5° dec. Bp_{0.1} 85° subl. Not well characterised.

Cullen, W.R. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 1030 (*synth*, *nmr*, *ir*)

C₁₀Cl₁₀Fe**Fe-00471****Decachloroferrocene, 10Cl**

Perchloroferrocene. Bis(η⁵-pentachlorocyclopentadienyl)iron

[11121-63-4]



M 530.487

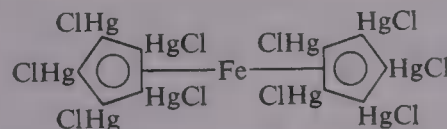
Mp 245-6° dec.

Hedberg, F.L. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 870 (*synth*, *ms*)

Motoyama, I. *et al*, *Chem. Lett.*, 1976, 1257 (*mössbauer*)

C₁₀Cl₁₀FeHg₁₀**Fe-00472****Decakis(chloromercurio)ferrocene, 10Cl**

[63495-08-9]



M 2536.387

Grey powder. Sol. DMF, insol. Me₂CO, H₂O. Dec. without melting.

Boev, V.I. *et al*, *Zh. Obshch. Khim.*, 1977, **47**, 727 (*synth*, *ir*)

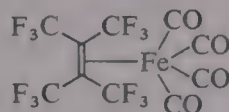
C₁₀F₅FeIO₄**Fe-00473****Iodotetracarbonyl(pentafluorophenyl)iron**(C₆F₅)FeI(CO)₄

M 461.851

Dark-red sublimable cryst. Mp 74-6°.

Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1963, **1**, 98 (*synth*, *nmr*, *ir*)**C₁₀F₁₂FeO₄****Fe-00474****Tetracarbonyl[(2,3- η)-1,1,1,4,4,4-hexafluoro-2,3-bis(trifluoromethyl)-2-butene]iron, 9Cl***Tetracarbonyl[tetrakis(trifluoromethyl)ethylene]iron*, 8Cl

[31494-68-5]

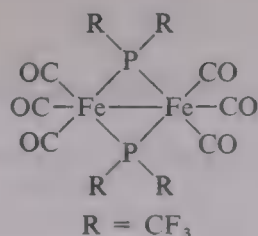


M 467.935

Mp 46° dec.

Fields, R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 1867 (*synth*, *ms*, *ir*)**C₁₀F₁₂Fe₂O₆P₂****Fe-00475****Bis[μ -[bis(trifluoromethyl)phosphino]]hexacarbonyldiiron, 9Cl**

[21729-52-2]



M 617.729

Red cryst. Mp 146°. Bp 35-90° subl. *in vacuo*.Grobe, J., *Z. Anorg. Allg. Chem.*, 1968, **361**, 32 (*synth*, *ir*, *nmr*)Dobbie, R.C. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 1030 (*synth*, *ir*)Clegg, W., *Inorg. Chem.*, 1976, **15**, 1609 (*struct*)**C₁₀F₁₄FeO₄****Fe-00476****Tetracarbonylbis(heptafluoropropyl)iron**

[80923-39-3]

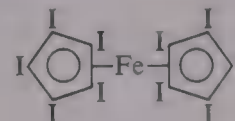
As Tetracarbonylbis(trifluoromethyl)iron, Fe-00094 with



M 505.932

cis-formV. pale-yellow cryst. (CH₂Cl₂/heptane). Mp 91-2°.Bp_{0.01} 40-5° subl.**trans-form**V. pale-yellow cryst. (hexane). Mp 92-3°. Bp_{0.01} 40-50° subl.King, R.B. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 3604 (*synth*, *nmr*, *ir*)Pitcher, E. *et al*, *J. Chem. Phys.*, 1962, **36**, 124 (*nmr*)Pitcher, E. *et al*, *Spectrochim. Acta*, 1962, **18**, 585 (*ir*)Hensley, D.W. *et al*, *Inorg. Chem.*, 1981, **20**, 645 (*synth*, *ir*, *nmr*, *cmr*)**C₁₀FeI₁₀****Fe-00477****Decaiodoferrocene, 10Cl**

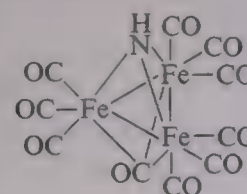
[63495-09-0]



M 1445.002

Orange cryst. (C₆H₆/toluene). Mp 136-7°.Boev, V.I. *et al*, *Zh. Obshch. Khim.*, 1977, **47**, 727 (*synth*, *ir*)**C₁₀HFe₃NO₁₀****Fe-00478** **μ_3 -Carbonylnonacarbonyl- μ_3 -imidotriiron, 10Cl***Decacarbonyl- μ_3 -imidotriiron*

[77456-69-0]

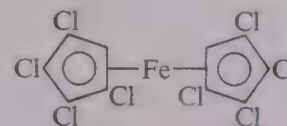


M 462.660

Red air-stable cryst.

Fjare, D.E. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 1573; *Inorg. Chem.*, 1981, **20**, 3533 (*synth*, *ir*, *ms*, *pmr*)**C₁₀H₂Cl₈Fe****Fe-00479****1,1',2,2',3,3',4,4'-Octachloroferrocene, 9Cl***Bis(η⁵-tetrachlorocyclopentadienyl)iron*

[33306-56-8]

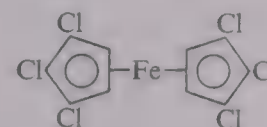


M 461.597

Cryst. (hexane). Mp 212°. Forms mesophase.

Hedberg, F.L. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 870 (*synth*, *pmr*, *ms*)**C₁₀H₄Cl₆Fe****Fe-00480****1,1',2,2',3,3'-Hexachloroferrocene, 9Cl***Bis(1,2,3-trichlorocyclopentadienyl)iron*

[33306-55-7]



M 392.707

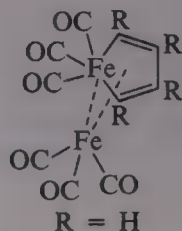
Cryst. (hexane). Mp 191°.

Hedberg, F.L. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 870 (*synth*, *ms*, *pmr*)

C₁₀H₄Fe₂O₆

Fe-00481

[μ -(1,2,3,4- η :1,4- η)-1,3-Butadiene-1,4-diyl]]hexacarbonyl-diiron, 10Cl
 [μ -(1,2,3,4- η :1,4- η)-1,3-Butadiene-1,4-diyl]]- μ -carbonylpentacarbonyldiiron, 9Cl. μ -1,3-Butadienylenehexacarbonyldiiron, 8Cl. Tricarbonyl(ferracyclopentadiene)-iron tricarbonyl
 [59447-66-4]



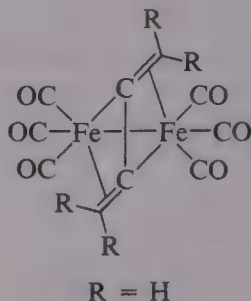
M 331.832

Compd. possesses one semi-bridging CO group. Orange prisms (C₆H₆/pet. ether). Mp 54-5°. Bp_{0.01} 40° subl.

Kaes, H.D. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 4749 (*synth*)Weiss, E. *et al*, *Chem. Ber.*, 1962, **95**, 1155 (*synth*)Herber, R.H. *et al*, *Inorg. Chem.*, 1964, **3**, 101 (*mössbauer*)Dettlaff, G. *et al*, *J. Organomet. Chem.*, 1976, **108**, 213 (*synth*, *struct*, *pmr*, *ms*)Todd, L.J. *et al*, *J. Organomet. Chem.*, 1976, **112**, 167 (*cmr*)C₁₀H₄Fe₂O₆

Fe-00482

[μ -(1,2,3- η :2,3,4- η)-2-Butyne-1,4-diyl]]hexacarbonyldiiron
 Hexacarbonylbutatrienediiron. (Butatriene)-hexacarbonyldiiron
 [12211-98-2]



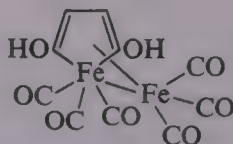
M 331.832

Previously formulated as Fe₂(CO)₅ complex. Orange needles (C₆H₆/hexane). Mp 69-70° (65-6°). Bp₃ 40-50° subl.

Nakamura, A. *et al*, *Bull. Chem. Soc. Jpn.*, 1965, **38**, 1868 (*synth*, *ir*)Joshi, K.K. *et al*, *J. Chem. Soc. (A)*, 1966, 594 (*synth*, *ir*, *pmr*)King, R.B. *et al*, *Org. Mass Spectrom.*, 1969, **2**, 657 (*ms*)Bright, D. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 2465 (*struct*)Victor, R., *J. Organomet. Chem.*, 1977, **127**, C25 (*synth*, *ir*, *pmr*)Victor, R. *et al*, *Org. Magn. Reson.*, 1978, **11**, 31 (*pmr*, *cmr*)C₁₀H₄Fe₂O₈

Fe-00483

Hexacarbonyl[μ -(1,2,3,4- η :1,4- η)-1,4-dihydroxy-1,3-butadiene-1,4-diyl]]diiron, 9Cl
 2,5-Dihydroxyferrole
 [54854-81-8]



M 363.831

Light-yellow to orange needles + 1H₂O. Mp 104-10° dec. pK_{a1} 6.30 (H₂O), pK_{a2} 9.14 (H₂O). Struct. determination carried out on 3,4-dimethyl analogue.

Di-Me ether: [32216-11-8].

C₁₂H₈Fe₂O₈ M 391.884Bright-orange needles (Et₂O). Mp 155.2-156.4°.Sternberg, H.W. *et al*, *J. Am. Chem. Soc.*, 1956, **78**, 3621 (*synth*, *ir*)Hock, A.A. *et al*, *Acta Crystallogr.*, 1961, **14**, 139 (*struct*)C₁₀H₄Fe₂O₈

Fe-00484

Octacarbonyl(μ-ethylidene)diiron

[82665-68-7]

As Octacarbonyl(μ-methylene)diiron, Fe-00340 with

R = CH₃

M 363.831

Yellow cryst. (pentane). Mp 50° dec.

Sumner, C.E. *et al*, *Organometallics*, 1982, **1**, 1350 (*synth*, *ir*, *pmr*, *cmr*, *ms*)C₁₀H₄Fe₂O₉

Fe-00485

Octacarbonyl(μ-methoxymethylene)diiron

[82665-73-4]

As Octacarbonyl(μ-methylene)diiron, Fe-00340 with

R = OMe

M 379.830

Yellow cryst. (pentane). Mp 61°.

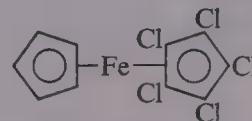
Sumner, C.E. *et al*, *Organometallics*, 1982, **1**, 1350 (*synth*, *ir*, *pmr*, *cmr*, *ms*)C₁₀H₅Cl₅Fe

Fe-00486

1,2,3,4,5-Pentachloroferrocene, 9Cl, 8Cl

 π -Cyclopentadienyl-(1,2,3,4,5-pentachloro- π -cyclopentadienyl)iron

[33306-53-5]



M 358.262

Cryst. (MeOH). Mp 143-4°.

Hedberg, F.L. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 870 (*synth*, *pmr*, *ms*)C₁₀H₅F₅FeO₂

Fe-00487

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(1,2,3,3,3-pentafluoro-1-propenyl)iron(η¹-1,1,2,3,3-Pentafluoro-1-propenyl)(η⁵-cyclopentadienyl)dicarbonyliron

[12211-99-3]

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, Fe-00173 withX = —CF=CF CF₃

M 307.987

Yellow-orange cryst. Mp 69.5-70.5°.

King, R.B. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 3604 (*synth*, *ir*, *nmr*)

Pitcher, E. *et al*, *Spectrochim. Acta*, 1961, **17**, 1244 (*ir*, *nmr*)
 Jolly, P.W. *et al*, *J. Chem. Soc.*, 1965, 5830 (*synth*)

C₁₀H₅F₅FeO₃ Fe-00488

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,2,3,3,3-pentafluoropropanoyl)iron
 (η^5 -Cyclopentadienyl)dicarbonyl(pentafluoropropionyl)-iron

As Bromodicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron,
 Fe-00173 with



M 323.987

Orange cryst. Mp 54-7°.

King, R.B. *et al*, *J. Organomet. Chem.*, 1964, **2**, 15 (*synth*, *ir*, *pmr*, *nmr*, *uv*)

Bruce, M.I., *Org. Mass Spectrom.*, 1969, **1**, 63 (*ms*)

King, R.B. *et al*, *J. Inorg. Nucl. Chem.*, 1970, **32**, 441 (*mössbauer*)

C₁₀H₅F₇FeO₂ Fe-00489

Dicarbonyl- π -cyclopentadienyl[tetrafluoro-1-(trifluoromethyl)ethyl]iron, 8Cl
 σ -(Heptafluoro-2-propyl)- π -cyclopentadienyliron dicarbonyl

As Bromodicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron,
 Fe-00173 with



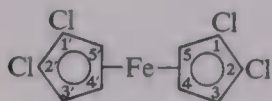
M 345.984

Yellow-orange solid. Mp 75-6°. Bp_{0.1} 70-5° subl.

King, R.B. *et al*, *J. Organomet. Chem.*, 1969, **20**, 187 (*synth*, *ir*, *pmr*, *nmr*)

C₁₀H₆Cl₄Fe Fe-00490

1,1',2,2'-Tetrachloroferrocene, 9Cl
 Bis(1,2-dichlorocyclopentadienyl)iron
 [33306-54-6]



M 323.816

Cryst. (hexane). Mp 147°. Forms mesophase.

Hedberg, F.L. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 870 (*synth*, *pmr*, *ms*)

C₁₀H₆Cl₄Fe Fe-00491

1,2,3,4-Tetrachloroferrocene, 9Cl
 (Cyclopentadienyl)(tetrachlorocyclopentadienyl)iron
 [33306-63-7]

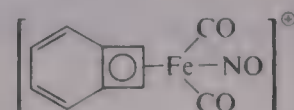
M 323.816

Cryst. (MeOH). Mp 81-2°.

Hedberg, F.L. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 870 (*synth*, *pmr*)

C₁₀H₆FeNO₃⁺ Fe-00492

[(1,6,7,8- η)-Bicyclo[4.2.0]octa-1,3,5,7-tetraene]dicarbonylnitrosyliron(1+), 10Cl
 (Benzocyclobutadiene)dicarbonylnitrosyliron(1+)



M 244.009 (ion)

Hexafluorophosphate: [58150-39-3].

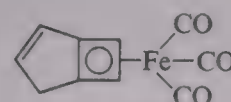
C₁₀H₆F₆FeNO₃P M 388.973

Orange cryst. (CH₂Cl₂/toluene). Mp 132° dec.

Efraty, A. *et al*, *Inorg. Chem.*, 1976, **15**, 886 (*synth*, *ir*, *pmr*, *nmr*)

C₁₀H₆FeO₃ Fe-00493

[(1,5,6,7- η)-Bicyclo[3.2.0]hepta-2,5,7-triene]tricarbonyliron, 9Cl
 [60097-20-3]



M 230.003

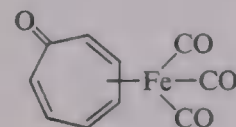
Yellow-orange liq. Bp_{0.01} 50°.

King, R.B. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 2409 (*synth*, *ir*, *pmr*, *cmr*, *ms*)

Bamberg, J. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 3173 (*synth*, *ir*, *pmr*)

C₁₀H₆FeO₄ Fe-00494

Tricarbonyl[(2,3,4,5- η)-2,4,6-cycloheptatrien-1-one]iron, 9Cl
 Tricarbonyl(tropone)iron. (2,4,6-Cycloheptatrien-1-one)iron tricarbonyl
 [33614-96-9]



M 246.002

Yellow cryst. (C₆H₆/pet. ether or Et₂O). Mp 63.5-64.5°, 83-4° (dimorph.). Bp 40° subl. *in vacuo*.

Weiss, E. *et al*, *Chem. Ber.*, 1962, **95**, 1179 (*synth*, *ir*)

Dodge, R.P., *J. Am. Chem. Soc.*, 1964, **86**, 5429 (*struct*)

Herber, R.H. *et al*, *Inorg. Chem.*, 1964, **3**, 101 (*mössbauer*)

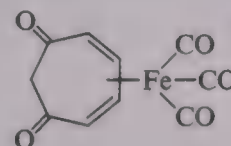
Hunt, D.F. *et al*, *J. Organomet. Chem.*, 1972, **43**, 175 (*ms*)

Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 1253 (*pmr*, *cmr*)

Kruczynski, L. *et al*, *Inorg. Chem.*, 1976, **15**, 3140 (*cmr*)

C₁₀H₆FeO₅ Fe-00495

Tricarbonyl(4,6-cycloheptadiene-1,3-dione)iron, 8Cl
 Tricarbonyl[(2,3,4,5- η)-2,4-cycloheptadien-1,6-dione]iron



M 262.001

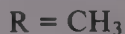
Fine pale-yellow needles (C₆H₆).

Birch, A.J. *et al*, *J. Chem. Soc. (A)*, 1968, 332 (*synth*)

C₁₀H₆FeO₆ Fe-00496**Tetracarbonyl(2,3-dimethyl-1,4-dioxo-2-butene-1,4-diyl)iron, 9Cl**

[59400-27-0]

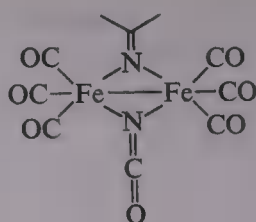
As Tetracarbonyl(1,4-dioxo-2-butene-1,4-diyl)iron, Fe-00248 with



M 278.001

Orange-yellow cryst. Mp 123-5° dec. Bp_{0.001} 50° subl.Case, J.R. *et al*, *J. Chem. Soc., Chem. Commun.*, 1959, 150 (*synth*)Grevels, F.W. *et al*, *J. Organomet. Chem.*, 1976, **111**, 235 (*synth*, *ir*, *uv*)**C₁₀H₆Fe₂N₂O₇ Fe-00497****Hexacarbonyl[μ-(cyanato-N:N)][μ-(2-propaniminato)]diiron, 9Cl**

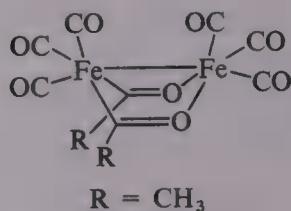
[56558-02-2]



M 377.861

Deep-red plates (Et₂O/hexane). Mp 65-7° subl. with dec. Reacts with MeOH.Albini, A. *et al*, *J. Organomet. Chem.*, 1975, **94**, 75 (*synth*, *ir*, *pmr*, *uv*)**C₁₀H₆Fe₂O₈ Fe-00498****Bis[μ-(methylidyneoxy)]hexacarbonyldiiron***Di-μ-acetylhexacarbonyldiiron, 8Cl. Bis(μ-methyloxy-carbenetricarbonyliron)*

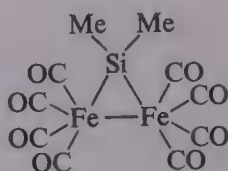
[29160-41-6]



M 365.847

Orange-red cryst. (pentane). Mp 60° dec. Bp_{0.001} ~20° subl.Fischer, E.O. *et al*, *J. Chem. Soc., Chem. Commun.*, 1968, 1378 (*synth*)Fischer, E.O. *et al*, *J. Organomet. Chem.*, 1970, **23**, 215 (*synth*, *ir*, *pmr*, *mössbauer*)Kiener, V. *et al*, *J. Organomet. Chem.*, 1972, **42**, 447 (*ir*, *props*)**C₁₀H₆Fe₂O₈Si Fe-00499****Octacarbonyl[μ-(dimethylsilylene)]diiron, 10Cl**

[75936-29-7]



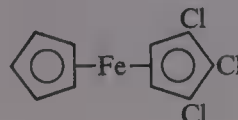
M 393.932

Dark-red cryst.

▷ Flammable in air

Bikovets, A.L. *et al*, *J. Organomet. Chem.*, 1980, **194**, C33 (*synth*, *pmr*, *nmr*, *ir*, *ms*)**C₁₀H₇Cl₃Fe Fe-00500****1,2,3-Trichloroferrocene, 9Cl**

[33306-52-4]

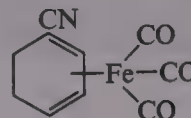


M 289.371

Cryst. (MeOH). Mp 103.5-104.5°.

Hedberg, F.L. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 870 (*synth*, *pmr*)**C₁₀H₇FeNO₃ Fe-00501****Tricarbonyl[(1,2,3,4-η)-1,3-cyclohexadiene-1-carbonitri-
le]iron, 9Cl***Tricarbonyl(1-cyano-1,3-cyclohexadiene)iron*

[51539-44-7]

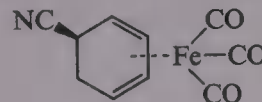


M 245.017

Cryst. (hexane). Mp 102-3°.

Birch, A.J. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1973, 1892 (*pmr*, *ir*)Nametkin, N.S. *et al*, *J. Organomet. Chem.*, 1978, **154**, 289 (*synth*, *pmr*, *ir*)**C₁₀H₇FeNO₃ Fe-00502****Tricarbonyl[(2,3,4,5-η)-2,4-cyclohexadiene-1-carbonitri-
le]iron, 10Cl***Tricarbonyl(1-cyano-2,4-cyclohexadiene)iron. (5-
Cyano-1,3-cyclohexadiene)tricarbonyliron*

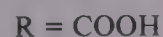
[12307-04-9]



M 245.017

exo-form [67180-14-7]Yellow cryst. (pentane). Mp 88-9°, 95°. Bp_{0.005} 50° subl.Hashmi, M.A. *et al*, *J. Chem. Soc. (A)*, 1967, 240 (*synth*, *ir*, *pmr*)Birch, A.J. *et al*, *J. Chem. Soc. (A)*, 1968, 332 (*synth*, *pmr*)Johnson, B.F.G. *et al*, *J. Organomet. Chem.*, 1978, **150**, 115 (*cryst struct*)**C₁₀H₇FeNO₅ Fe-00503****[(2,3,4,5-η)-1H-Azepine-1-carboxylic acid]tricarbonyliron**

As [(2,3,4,5-η)-1H-Azepine]tricarbonyliron, Fe-00370 with



M 277.016

Free acid not known. Fluxional.

Me ester: [12359-60-3].

C₁₁H₉FeNO₅ M 291.043

Orange prisms or bright-yellow cryst. (hexane). Mp 90-2°.

Et ester: [12193-69-0]. Tricarbonyl[(2,3,4,5-η)ethyl-1H-azepine-1-carboxylate]iron, 10Cl.C₁₂H₁₁FeNO₅ M 305.070

Mp 87°. Subl. at 60° in vacuo.

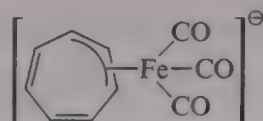
Fischer, E.O. *et al*, *Z. Anorg. Allg. Chem.*, 1965, **341**, 137 (*synth*, *ir*, *pmr*)Guenther, H. *et al*, *Tetrahedron Lett.*, 1967, 4155 (*pmr*)Paul, I.C. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 5023 (*struct*)Gill, G.B. *et al*, *J. Chem. Soc., Chem. Commun.*, 1969, 631 (*props*)Green, M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1977, 204 (*synth*, *pmr*, *ir*, *ms*)C₁₀H₇FeO₃[−]

Fe-00504

Tricarbonyl[(1,2,3-η)-2,4,6-cycloheptatrien-1-yl]ferrate(1−), 9Cl

Tricarbonyl(1,3,5-cycloheptatrienide)iron(1−)

[36594-73-7]



M 231.011 (ion)

Fluxional at r.t. in soln. (Ph₃P)₂N⁺ salt may be handled briefly in air.*Li salt*: [60767-45-5].C₁₀H₇FeLiO₃ M 237.952Generated and used *in situ*. Deep-red viscous oil.*K salt*: [75663-01-3].C₁₀H₇FeKO₃ M 270.109Dark-red powder. Usually prepd. and used *in situ*.

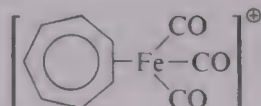
▷Pyrophoric

Tetraphenylarsonium salt: [66526-54-3].C₃₄H₂₇AsFeO₃ M 614.354

Red cryst. (EtOAc).

Maltz, H. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 1390 (*synth*, *ir*, *pmr*)Moll, M. *et al*, *Z. Naturforsch., B*, 1976, **31**, 1019 (*synth*, *ir*, *pmr*, *cmr*)Sepp, E. *et al*, *Z. Naturforsch., B*, 1978, **33**, 261 (*synth*, *struct*, *ir*, *pmr*)Airoidi, M. *et al*, *Inorg. Chim. Acta*, 1980, **41**, 171 (*synth*, *ir*)Li Shing Man, L.K.K. *et al*, *Organometallics*, 1983, **2**, 28 (*synth*, *ir*)C₁₀H₇FeO₃⁺

Fe-00505

Tricarbonyl(η⁷-2,4,6-cycloheptatrien-1-yl)iron(1+), 9Cl*Tropenyliumtricarbonyliron*(1+). *Tricarbonylcycloheptatrienyliumiron*(1+)

M 231.011 (ion)

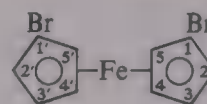
Tetrafluoroborate: [35797-77-4].C₁₀H₇BF₄FeO₃ M 317.814Yellow needles (MeNO₂). Mp 112° dec.Mahler, J.E. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 3589 (*synth*, *pmr*)Carazza, N. *et al*, *J. Org. Chem.*, 1980, **45**, 2001 (*synth*, *ir*)C₁₀H₈Br₂Fe

Fe-00506

1,1'-Dibromoferrocene, 9Cl

Bis(bromo-π-cyclopentadienyl)iron

[1293-65-8]



M 343.828

Yellow cryst. (EtOH or MeOH). Mp 55-6°. Bp_{0.1} 60° subl. Steam volatile.Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1959, **126**, 1004 (*synth*)Nesmeyanov, A.N. *et al*, *Chem. Ber.*, 1960, **93**, 2717 (*synth*)Kovar, R.L. *et al*, *Organomet. Chem. Synth.*, 1970, **1**, 173(*synth*, *pmr*, *ir*)Uden, P.C. *et al*, *J. Chromatogr.*, 1980, **196**, 403 (*glc*)C₁₀H₈Br₂Fe

Fe-00507

1,2-Dibromoferrocene

(η⁵-1,2-Dibromocyclopentadienyl)(η⁵-cyclopentadienyl)-iron

M 343.828

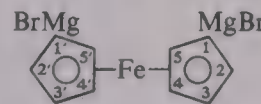
Previously assigned as 1,3-dibromoferrocene. Mp 78.5-80°.

Nefedov, V.A. *et al*, *Zh. Obshch. Khim.*, 1966, **36**, 1954 (*synth*)Roling, P.V. *et al*, *J. Org. Chem.*, 1974, **39**, 1420.C₁₀H₈Br₂FeMg₂

Fe-00508

μ-1,1'-Ferrocenediylbis[bromomagnesium]

1,1'-Ferrocenylenedi(bromomagnesium)



M 392.438

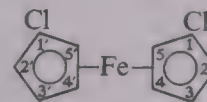
Yellow. Prepd. and used *in situ*.Seyferth, D. *et al*, *Inorg. Chem.*, 1962, **1**, 227 (*synth*, *use*)C₁₀H₈Cl₂Fe

Fe-00509

1,1'-Dichloroferrocene, 9Cl

Bis(chloro-π-cyclopentadienyl)iron

[1293-67-0]



M 254.926

Yellow cryst. (EtOH aq.). Mp 75-7°, 80-1°. Steam volatile.

Nesmeyanov, A.N. *et al*, *Chem. Ber.*, 1960, **93**, 2717 (*synth*)Kovar, R.F. *et al*, *Organometal. Chem. Synth.*, 1970, **1**, 173(*synth*, *pmr*, *ir*)Wulfsberg, G. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 6069 (*nqr*)Abramovitch, R.A. *et al*, *Inorg. Chem.*, 1975, **14**, 3085

(mössbauer)

Uden, P.C. *et al*, *J. Chromatogr.*, 1980, **196**, 403 (*glc*)C₁₀H₈Cl₂Fe

Fe-00510

1,2-Dichloroferrocene, 9Cl

(Cyclopentadienyl)(1,2-dichlorocyclopentadienyl)iron

[12287-95-5]

M 254.926

Cryst. (MeOH). Mp 88-90°.

Hedberg, F.L. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 870 (*synth*, *pmr*)

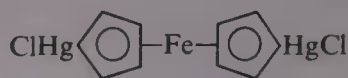
Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1973, 887 (*synth*, *uv*)

C₁₀H₈Cl₂FeHg₂

Fe-00511

1,1'-Bis(chloromercuri)ferrocene

1,1'-Bis(chloromercurio)ferrocene, 10Cl, 9Cl
[12145-90-3]



M 656.106

Yellow infusible solid. Spar. sol.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR*, 1954, **97**, 459.

Rausch, M.D. *et al*, *J. Org. Chem.*, 1963, **28**, 3337.

Rausch, M.D. *et al*, *Synth. React. Inorg. Metal-Org. Chem.*, 1973, **3**, 193 (*synth*)

Haworth, D.T. *et al*, *Sep. Sci.*, 1976, **11**, 327 (*tlc*)

C₁₀H₈Cl₂FeHg₂

Fe-00512

1,2-Bis(chloromercuri)ferrocene

1,2-Bis(chloromercurio)ferrocene, 9Cl
[51021-49-9]

M 656.106

Yellow cryst. (Me₂CO). Mp 200-5° dec. Previously assigned the 1,3-structure. Forms a solvate Mp. 170-2° with DMSO.

Nefedov, V.A. *et al*, *Zh. Obshch. Khim.*, 1966, **36**, 122.

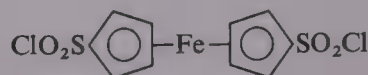
Roling, P.V. *et al*, *J. Org. Chem.*, 1974, **39**, 1420 (*synth*, *pmr*)

C₁₀H₈Cl₂FeO₄S₂

Fe-00513

1,1'-Ferrocenedisulfonyl chloride

1,1'-Bis(chlorosulfonyl)ferrocene, 9Cl
[41686-87-7]



M 383.044

Orange plates (CHCl₃). Mp 153-6° dec.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1958, **121**, 117 (*synth*)

Starovskii, O.V. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1960, **6**, 1001 (*struct*)

Knox, G.R. *et al*, *J. Chem. Soc. (C)*, 1967, 1843 (*synth*)

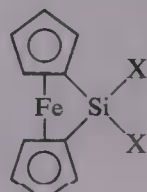
Abramovitch, R.A. *et al*, *J. Org. Chem.*, 1976, **41**, 491 (*synth*, *ir*, *pmr*, *ms*)

C₁₀H₈Cl₂FeSi

Fe-00514

(1,1'-Dichlorosilylene)ferrocene, 10Cl

(1,1'-Ferrocenediyl)dichlorosilane
[66083-73-6]



X = Cl

M 283.012

Surface derivatising agent. Deep-red moisture-sensitive cryst. Mp 73-5°. Bp_{0.01} 80°.

Wrighton, M.S. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 7264 (*synth*, *ir*, *pmr*, *uv*, *ms*)

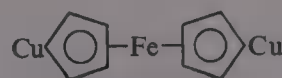
C₁₀H₈Cu₂Fe

Fe-00515

1,1'-Ferrocenylenedicopper

1,1'-Dicuprioferrocene

[76082-12-7]



M 311.112

Thermally stable red-orange solid. Insol. common solvs. Dec. at 136°.

Sedova, N.N. *et al*, *J. Organomet. Chem.*, 1982, **224**, C53 (*synth*)

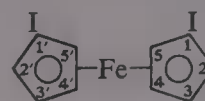
C₁₀H₈FeI₂

Fe-00516

1,1'-Diiodoferrocene, 9Cl

Bis(iodo-π-cyclopentadienyl)iron

[12145-93-6]



M 437.829

Viscous orange liq. or dark-red oil.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1955, **100**, 1099 (*synth*)

Rausch, M.D., *J. Org. Chem.*, 1963, **28**, 3337 (*synth*, *ir*, *pmr*)

Kovar, R.F. *et al*, *Organomet. Chem. Synth.*, 1970, **1**, 173 (*synth*, *ir*, *pmr*)

C₁₀H₈FeI₂

Fe-00517

1,2-Diiodoferrocene, 9Cl

[41556-86-9]

M 437.829

Originally reported as the 1,3-isomer.

Zaluski, Z. *et al*, *CA*, 1973, **78**, 116456 (*struct*)

Roling, P.V. *et al*, *J. Org. Chem.*, 1974, **39**, 1420 (*synth*, *pmr*, *ir*)

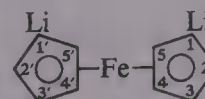
C₁₀H₈FeLi₂

Fe-00518

1,1'-Dilithioferrocene

μ-1,1'-Ferrocenediyl dilithium, 9Cl

[33272-09-2]



M 197.902

Tetramethylethylenediamine complex (1:1): [32677-77-3].

C₁₆H₂₄FeLi₂N₂ M 314.108

Fine orange powder.

▷Pyrophoric

Tetramethylethylenediamine complex (1:2): [41787-07-9].

C₂₂H₄₀FeLi₂N₄ M 430.314

Orange solid.

▷Pyrophoric

Rausch, M.D. *et al*, *J. Organomet. Chem.*, 1967, **10**, 127 (*synth*, *use*)

Org. React., 1969, **17**, 1 (*synth*)

Bishop, J.J. *et al*, *J. Organomet. Chem.*, 1971, **27**, 241 (*synth*)

Rausch, M.D. *et al*, *J. Organomet. Chem.*, 1973, **51**, 1 (*synth*)

C₁₀H₈FeLi₂

Fe-00519

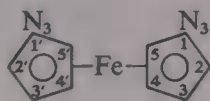
1,2-Dilithioferrocene

M 197.902

Generated and used *in situ*.Röling, P.V. *et al*, *J. Org. Chem.*, 1974, **39**, 1420 (*synth*, *use*)C₁₀H₈FeN₆

Fe-00520

1,1'-Diazidoferrrocene

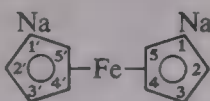
Bis(azido- π -cyclopentadienyl)iron. 1,1'-*Bis*azidoferrrocene

M 268.060

Solid, dec. by light. Mp 58.5-59°.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1963, **150**, 321 (*synth*)C₁₀H₈FeNa₂

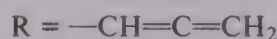
Fe-00521

 μ -1,1'-Ferrocenediylidisodium, 9Cl1,1'-Ferrocenylenedisodium. 1,1'-Disodioferrrocene
[59418-45-0]

M 230.000

Red. Prepared and used *in situ*.Seyferth, D. *et al*, *Inorg. Chem.*, 1962, **1**, 227 (*synth*, *use*)Post, E.W. *et al*, *J. Organomet. Chem.*, 1978, **161**, C17 (*synth*)C₁₀H₈FeO₂

Fe-00522

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-1,2-propadienyliron, 9Cl σ -Allenyl- π -cyclopentadienyldicarbonyliron
[42043-77-6]As Bromodicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00173 with

M 216.019

Previously assigned a propynyl struct. Amber oil.

Jolly, P.W. *et al*, *J. Organomet. Chem.*, 1968, **12**, 491.Johnson, M.D. *et al*, *J. Chem. Soc., Chem. Commun.*, 1969, 192 (*struct*)Raghu, S. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 3060 (*synth*, *bibl*, *use*, *pmr*, *ir*)Bucheister, A. *et al*, *Organometallics*, 1982, **1**, 1679 (*use*)C₁₀H₈FeO₂

Fe-00523

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-1-propynyliron, 9Cl
[33248-70-3]As Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(difluorophosphinothioyl)iron, Fe-00189 with

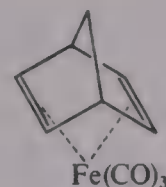
M 216.019

Yellow cryst. (Et₂O/pet. ether). Mp 96°.*CuCl* adduct:C₂₀H₁₆Cu₂Cl₂Fe₂O₄ M 630.036

Yellow. Mp 145-7°. Dimeric.

Jolly, P.W. *et al*, *J. Organomet. Chem.*, 1968, **12**, 491 (*synth*, *ir*, *pmr*)Abu Salah, O.M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 2302 (*synth*, *ir*, *pmr*)C₁₀H₈FeO₃

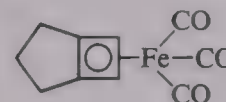
Fe-00524

[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene]tricarbonyliron, 9Cl
Tricarbonyl(2,5-norbornadiene)iron, 8Cl.
Norbornadienetricarbonyliron
[12307-07-2]

M 232.018

Cryst. (pentane). Mp -2°, ca. 10°. Bp_{0.2} 60.5°. Dec. slowly in air.Pettit, R., *J. Am. Chem. Soc.*, 1959, **81**, 1266 (*synth*)Green, M.L.H. *et al*, *J. Chem. Soc.*, 1960, 989 (*synth*, *pmr*, *ir*)Zakharova, I.A. *et al*, *J. Organomet. Chem.*, 1975, **102**, 227 (*ir*, *raman*)Kruczynski, L. *et al*, *Inorg. Chem.*, 1976, **15**, 3140 (*cmr*)C₁₀H₈FeO₃

Fe-00525

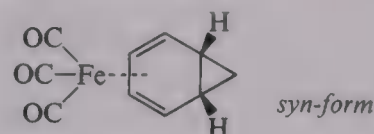
[(1,5,6,7- η)-Bicyclo[3.2.0]hepta-5,7-diene]tricarbonyliron, 10Cl
[62981-58-2]

M 232.018

Yellow oil.

Bamberg, J. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 3173 (*synth*, *pmr*, *ir*)C₁₀H₈FeO₃

Fe-00526

[(2,3,4,5- η)-Bicyclo[4.1.0]hepta-2,4-diene]tricarbonyliron, 10Cl
Tricarbonyl(norcaradiene)iron

M 232.018

syn-form [79301-47-6]

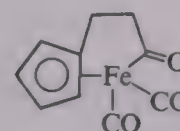
Mp -5°.

anti-form [79389-26-7]

No phys. props. reported.

Grimme, W. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 5919 (*synth*, *pmr*, *cmr*)C₁₀H₈FeO₃

Fe-00527

Dicarbonyl[(η^5 -2,4-cyclopentadien-1-ylidene)(3-oxo-1,3-propanediyl)]iron, 10Cl
[59459-75-5]

M 232.018

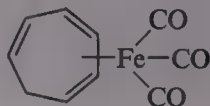
Previously formulated as an Fe(CO)₃ complex of spiro-[2.4]-hepta-4,6-diene. Air-sensitive yellow needles (hexane). Mp 112°.

Eilbracht, P., *Chem. Ber.*, 1976, **109**, 1429; 1980, **113**, 2211
(*synth*, *ir*, *uv*, *pmr*)

C₁₀H₈FeO₃

Fe-00528

Tricarbonyl[(1,2,3,4- η)-1,3,5-cycloheptatriene]iron, 10Cl, 9Cl
Cycloheptatrieneiron tricarbonyl. Tricarbonylcycloheptatrieneiron. η^4 -Cyclohepta-1,3,5-trienetricarbonyliron
[36343-88-1]



M 232.018

Fluxional molecule. Yellow-brown oil. Mp 5°. Bp_{0.5} 60°
(Bp_{0.4} 70°).

U.S.P., 3 037 999, (1959); *CA*, **58**, 7976 (*synth*)

Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 456
(*synth*)

Kruczynski, L. *et al*, *Inorg. Chem.*, 1976, **15**, 3140 (*cmr*)

Cunningham, D. *et al*, *J. Chem. Soc., Dalton Trans.*, 1977, 2340
(*cmr*)

Mann, B.E., *J. Organomet. Chem.*, 1977, **141**, C33 (*cmr*)

Karel, K.J. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 1619 (*cmr*,
pmr)

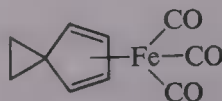
Blake, M.R. *et al*, *J. Organomet. Chem.*, 1979, **178**, C37 (*ms*)

Brookhart, M. *et al*, *J. Organomet. Chem.*, 1979, **164**, 193
(*synth*)

C₁₀H₈FeO₃

Fe-00529

Tricarbonyl(spiro[2.4]hepta-4,6-diene)iron, 8Cl



M 232.018

Bright-yellow needles (Et₂O). Mp 108-10°.

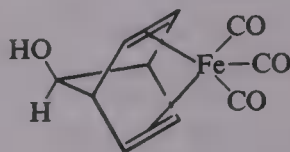
De Puy, C.H. *et al*, *J. Organomet. Chem.*, 1968, **13**, 266 (*synth*,
pmr, *ir*, *ms*)

C₁₀H₈FeO₄

Fe-00530

[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene-7-ol]tricarbonyliron

Tricarbonyl(2,5-norbornadien-7-ol)iron, 8Cl



M 248.018

Pale-yellow needles (hexane). Mp 100-100.2°.

Ketone: [12307-01-6]. [(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-dien-7-one]tricarbonyliron. Tricarbonyl(2,5-norbornadien-7-one)iron.

C₁₀H₆FeO₄ M 246.002

Orange needles (pentane). Mp 93-95.5°. Unstable
>0°.

Hunt, D.F. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 2561 (*synth*, *ir*,
pmr)

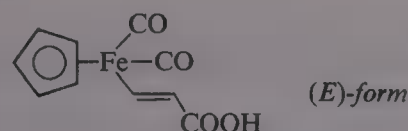
Landesberg, J.M. *et al*, *J. Am. Chem. Soc.*, 1971, **93**, 972
(*synth*)

C₁₀H₈FeO₄

Fe-00531

Dicarbonyl(2-carboxyethenyl)(η^5 -2,4-cyclopentadien-1-yl)iron

[60837-98-1]



M 248.018

(E)-form

Yellow cryst. (H₂O). Mp 137-9°.

Me ester: [60876-17-7]. Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(3-methoxy-3-oxo-1-propenyl)iron, 9Cl.

C₁₁H₁₀FeO₄ M 262.045

Yellow cryst. (pet. ether). Mp 59-61°.

Et ester: [60876-18-8]. Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(3-ethoxy-3-oxo-1-propenyl)iron, 9Cl.

C₁₂H₁₂FeO₄ M 276.071

Yellow cryst. (pet. ether). Mp 55-6°.

(Z)-form

Yellow cryst. (H₂O). Mp 123-7°.

Me ester: Yellow cryst. Mp 116-9°.

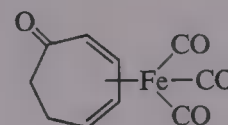
Et ester: Yellow cryst. Mp 69-72°.

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*,
1976, 1592 (*synth*, *ir*, *pmr*)

C₁₀H₈FeO₄

Fe-00532

Tricarbonyl[(2,3,4,5- η)-2,4-cycloheptadien-1-one]iron, 9Cl
[34829-59-9]



M 248.018

Yellow needles (C₆H₆/pet. ether). Mp 108-10°. Bp 90°
subl. *in vacuo*.

Weiss, E. *et al*, *Chem. Ber.*, 1962, **95**, 1179 (*synth*, *ir*)

Hunt, D.F. *et al*, *J. Organomet. Chem.*, 1972, **38**, 349 (*pmr*)

Kruczynski, L. *et al*, *Inorg. Chem.*, 1976, **15**, 3140 (*cmr*)

C₁₀H₈FeO₄

Fe-00533

Tricarbonyl[(3,4,5,6- η)-3,5-cycloheptadien-1-one]iron

M 248.018

Air-sensitive yellow cryst. (pet. ether). Mp ca. 55° dec.
Bp 30° subl. *in vacuo*.

Weiss, E. *et al*, *Chem. Ber.*, 1962, **95**, 1179 (*synth*, *ir*)

C₁₀H₈FeO₄

Fe-00534

Tricarbonyl[(1,2,3,4- η)-1,3-cyclohexadiene-1-carboxaldehyde]iron, 9Cl

Tricarbonyl($\Delta^{1,3}$ -dihydrobenzaldehyde)iron

[53556-24-4]

As Tricarbonyl[(1,2,3,4-

η)-1-chloro-1,3-cyclohexadiene]iron, Fe-00363 with

R = CHO

M 248.018

Orange cryst. (pentane). Mp 87.5-88°. Bp_{0.05} 90-5°.

Semicarbazone: Orange cryst. (EtOH). Mp 196-201°
dec.

Jablonski, C.R. *et al*, *Can. J. Chem.*, 1974, **52**, 2085 (synth, pmr, ir)

Nametkin, N.S. *et al*, *J. Organomet. Chem.*, 1976, **107**, 377 (synth, pmr, ir)

C₁₀H₈FeO₄ Fe-00535

Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadiene-1-carboxaldehyde]iron, 10Cl

Tricarbonyl[(1-4- η)-5-formyl-1,3-cyclohexadiene]iron

As Tricarbonyl[(1,2,3,4- η)-5-chloro-1,3-cyclohexadiene]iron, Fe-00365 with

R = CHO

M 248.018

exo-form [77829-49-3]

Unstable yellow oil.

2,4-Dinitrophenylhydrazone: Cryst. (pentane). Mp 176-7° dec.

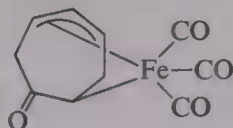
Alper, H. *et al*, *Tetrahedron Lett.*, 1980, 1589 (synth)

Pearson, A.J. *et al*, *J. Organomet. Chem.*, 1980, **202**, 175 (synth, ir)

C₁₀H₈FeO₄ Fe-00536

Tricarbonyl[(1,3,4,5- η)-7-oxo-4-cycloheptene-1,3-diyl]iron, 9Cl

[60440-01-9]



M 248.018

Yellow cryst. Mp 116°.

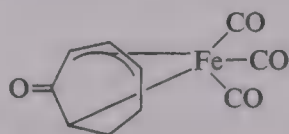
Eisenstadt, A., *J. Organomet. Chem.*, 1976, **113**, 147 (synth, ir, pmr)

C₁₀H₈FeO₄ Fe-00537

Tricarbonyl[(1,3,4,5- η)-2-oxo-4-cycloheptene-1,3-diyl]iron, 10Cl

(2,3,4- η -7- σ -Cycloheptenediyl-1-one)tricarbonyliron

[67379-58-2]



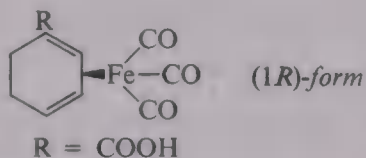
M 248.018

Pale-yellow cryst. Bp_{0.001} 40° subl.

Johnson, B.F.G. *et al*, *J. Organomet. Chem.*, 1978, **145**, C23 (synth, ir, pmr, cmr)

C₁₀H₈FeO₅ Fe-00538

Tricarbonyl[(1,2,3,4- η)-1,3-cyclohexadiene-1-carboxylic acid]iron



R = COOH

M 264.017

(1*R*)-form

Mp 147-9°. [α]_D²⁵ +136° (c, 0.3 in Me₂CO).

(1*S*)-form

Mp 147-9°. [α]_D²⁵ -136°.

($\pm$)-form

Me ester: [51539-42-5].

C₁₁H₁₀FeO₅ M 278.044

Orange oil. Freezes at r.t.

Amide:

C₁₀H₉FeNO₄ M 263.032

Orange-yellow cryst. (EtOH aq.). Mp 140°.

Birch, A.J. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1973, 1892 (synth, pmr)

Birch, A.J. *et al*, *Tetrahedron Lett.*, 1980, 2981 (synth, resolu)

C₁₀H₈FeO₅ Fe-00539

Tricarbonyl[(1,2,5,6- η)-1,5-cyclohexadiene-1-carboxylic acid]iron, 9Cl

Tricarbonyl(2-carboxy-1,3-cyclohexadiene)iron

As Tricarbonyl[(1,2,3,4- η)-2-chloro-1,3-cyclohexadiene]iron, Fe-00364 with

R = COOH

M 264.017

Me ester: [51539-41-4].

C₁₁H₁₀FeO₅ M 278.044

Yellow needles (pet. ether). Mp 40-1°. Bp_{9.05} 78°.

Birch, A.J. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1973, 1892 (synth, pmr, ir)

Pearson, A.J. *et al*, *Aust. J. Chem.*, 1977, **30**, 407 (cmr)

C₁₀H₈FeO₅ Fe-00540

Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadiene-1-carboxylic acid]iron, 9Cl

Tricarbonyl(5-carboxy-1,3-cyclohexadiene)iron

As Tricarbonyl[(1,2,3,4- η)-5-chloro-1,3-cyclohexadiene]iron, Fe-00365 with

R = COOH

M 264.017

exo-form

α -form

Me ester: [78684-57-8].

C₁₁H₁₀FeO₅ M 278.044

Orange-yellow oil. Bp_{1.5} 127-8°.

Amide:

C₁₀H₉FeNO₄ M 263.032

Orange-yellow cryst. (C₆H₆/hexane). Mp 116-7°.

endo-form

β -form

Me ester: [78684-58-9]. Orange oil. Bp_{0.01} 88°.

Whitesides, T.H. *et al*, *Inorg. Chem.*, 1974, **13**, 1895.

Birch, A.J. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1978, 638 (synth, pmr)

Nametkin, N.S. *et al*, *J. Organomet. Chem.*, 1978, **154**, 289 (pmr, ir, ms)

Bandara, B.M.R. *et al*, *J. Organomet. Chem.*, 1981, **208**, C31 (synth)

The symbol $\blacktriangleright$ in Entries highlights hazard or toxicity information

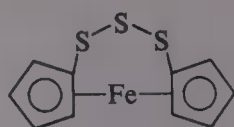
C₁₀H₈FeS₃

Fe-00541

1,1'-Trithioferrocene, 9Cl

1,2,3-Trithia[3]ferrocenophane

[32677-78-4]



M 280.200

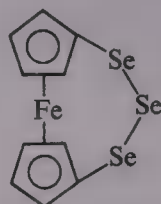
Orange, air stable cryst. (C₆H₆ or by subl.). Sol. polar, nonpolar solvs. Mp 149.5-150.5°. Fluxional molecule.Davison, A. *et al*, *J. Organomet. Chem.*, 1969, **19**, P7 (*pmr*)Bishop, J.J. *et al*, *J. Organomet. Chem.*, 1971, **27**, 241 (*synth*, *ir*, *pmr*, *ms*)Davis, B.R. *et al*, *J. Cryst. Mol. Struct.*, 1972, **2**, 143 (*cryst struct*)Good, M.L. *et al*, *CA*, 1975, **82**, 97247 (*mössbauer*)Piorko, A. *et al*, *Org. Magn. Reson.*, 1981, **16**, 312 (*cmr*)C₁₀H₈FeSe₃

Fe-00542

1,1'-Triselenoferrocene

1,2,3-Triseleno[3]ferrocenophane

[75103-94-5]



M 420.900

Fluxional. Red-orange needles (hexane). Mp 145-7°.

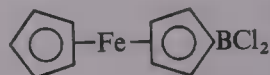
Abel, E.W. *et al*, *J. Organomet. Chem.*, 1981, **208**, 213 (*pmr*)Osborne, A.G. *et al*, *J. Organomet. Chem.*, 1981, **205**, 395 (*synth*, *pmr*)C₁₀H₉BCl₂Fe

Fe-00543

1,1'-Dichloroborylferrocene, 9Cl, 8Cl

Dichloroferrocenylborane. Ferrocenyldichloroborane

[32007-87-7]



M 266.744

Red-orange solid. Sol. hexane. Mp 33°.

Py complex: [31811-20-8]. Dichloroferrocenyl(pyridine)-boron, 10Cl.

C₁₅H₁₄BCl₂FeN M 345.845

Yellow-orange air-sensitive solid by subl. Sol. hexane.

Mp 162-5°.

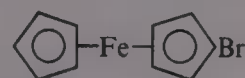
Kotz, J.C. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 4503 (*synth*, *pmr*)Kotz, J.C. *et al*, *Inorg. Chem.*, 1970, **9**, 1661 (*synth*, *ir*, *pmr*, *uv*, *nmr*)Ruf, W. *et al*, *J. Organomet. Chem.*, 1974, **64**, C45 (*synth*, *pmr*)Renk, T. *et al*, *J. Organomet. Chem.*, 1976, **120**, 1.C₁₀H₉BrFe

Fe-00544

Bromoferrocene, 9Cl

Ferrocenyl bromide

[1273-73-0]



M 264.932

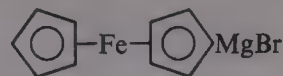
Yellow plates (EtOH). Mp 32-33.5°. Sublimes.

Fish, R.W. *et al*, *J. Org. Chem.*, 1965, **30**, 1253 (*synth*)Perevalova, E.G. *et al*, *J. Organomet. Chem.*, 1973, **56**, 269 (*ir*, *pmr*, *cmr*)Gmelin's *Handbuch der Anorg. Chem.*, 1974, 8th Ed., Suppl. 14, A368.C₁₀H₉BrFeMg

Fe-00545

Bromo(ferrocenyl)magnesium

Bromomagnesioferrocene. Ferrocenylmagnesium bromide. Ferrocenyl Grignard



M 289.237

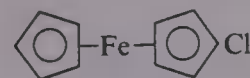
Generated and used *in situ*. Chloro- and iodo-analogues also prepd.Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1955, **100**, 1099 (*synth*)Shechter, H. *et al*, *J. Org. Chem.*, 1961, **26**, 1034 (*synth*)Kato, S. *et al*, *J. Organomet. Chem.*, 1974, **78**, 405 (*synth*)C₁₀H₉ClFe

Fe-00546

Chloroferrocene, 9Cl

Ferrocenyl chloride

[1273-74-1]



M 220.481

Yellow cryst. Mp 59-61°. Steam-volatile.

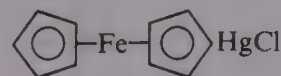
Perevalova, E.G. *et al*, *Organometallic Reactions*, (Becker, E.I., *et al*, Ed.), 1972, Wiley, N.Y., **4**, 306 (*synth*)Nesmeyanov, A.N. *et al*, *Zh. Strukt. Khim.*, 1973, **14**, 49 (*cmr*)Gmelin's *Handbuch der Anorg. Chem.*, 8th Ed., 1974, Suppl., **14**, 366.Rimmelin, P. *et al*, *J. Organomet. Chem.*, 1976, **114**, 175 (*pmr*)C₁₀H₉ClFeHg

Fe-00547

Chloromercuriferrocene

Ferrocenylmercury chloride. Chloroferrocenyl mercury. (Chloromercurio)ferrocene, 10Cl, 9Cl

[1273-75-2]

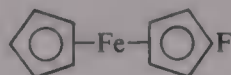


M 421.071

Golden platelets (CH₂Cl₂/pet. ether). Mp 197-9°.Fish, R.W. *et al*, *J. Org. Chem.*, 1957, **22**, 960 (*synth*)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR*, 1959, **126**, 1004; 1971, **198**, 1099; *Chem. Ber.*, 1960, **93**, 2717; *Izv. Akad. Nauk. SSSR, Otd. Khim. Nauk.*, 1962, 47.Tanikawa, K. *et al*, *CA*, 1971, **75**, 29735 (*tlc*)Rausch, M.D. *et al*, *Synth. React. Inorg. Metal-Org. Chem.*, 1973, **3**, 193 (*synth*)Maslowski, E., *J. Mol. Struct.*, 1974, **21**, 468 (*ir*)

C₁₀H₉FFe**Fe-00548****Fluoroferrrocene**, 10Cl, 8Cl*Ferrocenyl fluoride. (Cyclopentadienyl)-(fluorocyclopentadienyl)iron*

[35164-74-0]



M 204.027

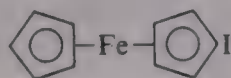
Orange cryst. (MeOH). Mp 116-8°.

Hedberg, F.L. *et al*, *J. Organomet. Chem.*, 1971, **28**, C14

(synth, pmr, ir, ms)

Armstrong, D.R. *et al*, *Rev. Roum. Chim.*, 1978, **23**, 1179.**C₁₀H₉FeI****Fe-00549****Iodoferrrocene**, 9Cl*Ferrocenyl iodide*

[1273-76-3]

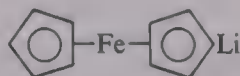


M 311.933

Yellow-orange cryst. (MeOH aq.). Mp 44-5°.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR*, 1955, **10**, 1099; *CA*, **50**, 2258 (synth)Struchkov, Yu.T., *Zh. Obshch. Khim.*, 1957, **27**, 2039; *CA*, **52**, 6326 (struct)Shechter, H. *et al*, *J. Org. Chem.*, 1961, **26**, 1034 (synth)Rausch, M.D., *J. Org. Chem.*, 1961, **26**, 1802; 1963, **28**, 3337 (synth, ir)**C₁₀H₉FeLi****Fe-00550****Lithioferrrocene***Ferrocenyllithium*, 9Cl

[1271-15-4]



M 191.969

Generated and used *in situ*. Orange, air- and moisture-sensitive solid.*N,N,N',N'*-Tetramethylethylenediamine adduct:

Orange, air- and moisture-sensitive solid.

Rausch, M.D. *et al*, *J. Organomet. Chem.*, 1973, **51**, 1 (synth)Hedberg, F.L. *et al*, *Tetrahedron Lett.*, 1969, 4011 (synth)**C₁₀H₉FeNO₂****Fe-00551****Dicarbonyl(cyano-C)(1,2,3,4,5-η)-2,4-cycloheptadien-1-yl]iron**

[12125-78-9]

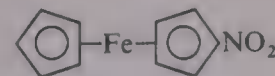
As Dicarbonylchloro[(1,2,3,4,5-η)-2,4-cycloheptadien-1-yl]iron, Fe-00414 with

X = CN

M 231.034

Orange cryst. (CHCl₃/pet. ether). Mp 75-6° dec.Hashmi, M.A. *et al*, *J. Chem. Soc. (A)*, 1967, 240 (synth, ir)**C₁₀H₉FeNO₂****Fe-00552****Nitroferrrocene**, 9Cl

[1271-16-5]

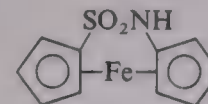


M 231.034

Deep-purple needles (cyclohexane). Mp 130°, >190° dec. Sublimes.

Helling, J.F. *et al*, *Chem. Ind. (London)*, 1959, 1157 (synth, ir, uv)Dvoryantseva, G.G. *et al*, *CA*, 1968, **68**, 109995 (pmr)Nesmeyanov, A.N. *et al*, *Zh. Strukt. Khim.*, 1973, **14**, 49 (cmr)**C₁₀H₉FeNO₂S****Fe-00553****1,1'-(Iminosulfonyl)ferrrocene**, 9Cl[2] *Ferrocenophanethiazine 1,1-dioxide*

[32964-64-0]



M 263.094

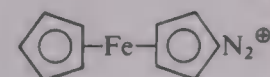
Red-orange or red-brown cryst. Mp 170-1°.

Abramovitch, R.A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1969, 1439 (synth, pmr, uv)Abramovitch, R.A. *et al*, *Inorg. Chem.*, 1975, **14**, 3085 (struct, mössbauer)**C₁₀H₉FeNO₅****Fe-00554****Tricarbonyl[(1,2,3,4-η)-2-amino-3-(1,3-cyclobutadiene)propanoic acid]iron***Tricarbonyl(cyclobutadienylalanine)iron*As (η⁴-1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 withR = —CH₂CH(NH₂)COOH

M 279.032

(±)-*form*

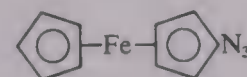
Pale-yellow cryst. (EtOH). Mp 220° dec.

Brunet, J.C. *et al*, *J. Organomet. Chem.*, 1981, **216**, 73 (synth, ir, ms)**C₁₀H₉FeN₂⁺****Fe-00555****Ferrocenediazonium(1+)***Ferrocenyldiazonium(1+)*

M 213.042 (ion)

Generated in soln. from *N*-(ferrocenyldiazo)aniline and mineral acids below -15°. Violet. Sol. H₂O.Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR*, 1963, **150**, 102, 321; 1964, **159**, 1334.**C₁₀H₉FeN₃****Fe-00556****Azidoferrrocene**, 8Cl*Ferrocenyl azide*

[1273-77-4]



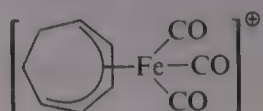
M 227.048

Solid. Dec. by light. Mp 53-4°.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1963, **150**, 321 (*synth*)
 Sutherland, R.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1971, 134.

C₁₀H₉FeO₃⁺ Fe-00557

**Tricarbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iron(1+),
 9Cl
Tricarbonylcycloheptadienyliumiron(1+)
 [46238-85-1]**



M 233.026 (ion)

Tetrafluoroborate: [12212-05-4].

C₁₀H₉BF₄FeO₃ M 319.830

Bright-yellow cryst. Darkens >150°.

Perchlorate:

C₁₀H₉ClFeO₇ M 332.477

Orange-yellow needles (Me₂CO).

▷Explodes near 160°

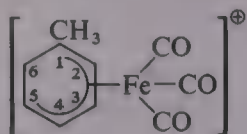
Dauben, H.J. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 497, 5049
 (*synth, ir, pmr*)

Hashmi, M.A. *et al*, *J. Chem. Soc. (A)*, 1967, 240 (*synth*)

Olah, G.A. *et al*, *J. Org. Chem.*, 1976, **41**, 2383 (*cmr*)

C₁₀H₉FeO₃⁺ Fe-00558

**Tricarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclohexadien-1-yl]iron(1+), 9Cl
Tricarbonyl(1-methyl- π -cyclohexadienylium)iron(1+)
 [46238-80-6]**



M 233.026 (ion)

Hexafluorophosphate: [34739-13-4].

C₁₀H₁₉F₆FeO₃P M 388.069

Yellow solid (Me₂CO/Et₂O). Sol. Me₂CO, spar. sol.

H₂O, insol. Et₂O, C₆H₆, pentane. Mp >193° dec.

Herberich, G.E. *et al*, *Chem. Ber.*, 1971, **104**, 2781 (*synth, ir*)

Birch, A.J. *et al*, *Aust. J. Chem.*, 1976, **29**, 1671 (*cmr*)

C₁₀H₉FeO₃⁺ Fe-00559

**Tricarbonyl[(1,2,3,4,5- η)-2-methyl-2,4-cyclohexadien-1-yl]iron(1+), 9Cl
Tricarbonyl(2-methyl- π -cyclohexadienylium)iron(1+),
 8Cl**

[46238-71-5]

M 233.026 (ion)

Hexafluorophosphate: [12307-12-9].

C₁₀H₉F₆FeO₃P M 377.990

No phys. props. reported.

Tetrafluoroborate: [12307-11-8].

C₁₀H₉BF₄FeO₃ M 319.830

No phys. props. reported.

Birch, A.J. *et al*, *J. Chem. Soc. (C)*, 1971, 2461 (*synth*)

Birch, A.J. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1973, 1882

(*synth, pmr*)

Birch, A.J. *et al*, *Aust. J. Chem.*, 1976, **29**, 1671 (*cmr*)

C₁₀H₉FeO₃⁺ Fe-00560

**Tricarbonyl[(1,2,3,4,5- η)-3-methyl-2,4-cyclohexadien-1-yl]iron(1+)
Tricarbonyl(3-methyl- π -cyclohexadienylium)iron(1+),
 8Cl**

[51373-24-1]

M 233.026 (ion)

Hexafluorophosphate: [34663-81-5].

C₁₀H₉F₆FeO₃P M 377.990

No phys. props. reported.

Birch, A.J. *et al*, *J. Chem. Soc. (C)*, 1971, 2465 (*synth*)

Birch, A.J. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1973, 1882
 (*synth, pmr*)

Birch, A.J. *et al*, *Aust. J. Chem.*, 1976, **29**, 1671 (*cmr*)

Birch, A.J. *et al*, *Tetrahedron, Suppl.*, 1981, **9**, 289 (*rev*)

C₁₀H₉FeO₄⁺ Fe-00561

Tricarbonyl[(1,2,3,4,5- η)-3-methoxy-2,4-cyclohexadien-1-yl]iron(1+), 10Cl

[48145-38-6]

M 249.026 (ion)

Tetrafluoroborate: [42531-68-0].

C₁₀H₉BF₄FeO₄ M 335.829

Yellow powder.

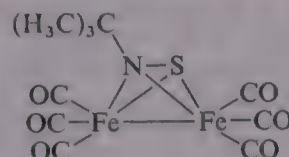
Birch, A.J. *et al*, *Aust. J. Chem.*, 1976, **29**, 1671 (*synth*)

Ireland, R.E. *et al*, *J. Org. Chem.*, 1974, **39**, 51 (*synth, pmr*)

Birch, A.J. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1981, 1006
 (*synth, ir, pmr*)

C₁₀H₉Fe₂NO₆S Fe-00562

**μ -Hexacarbonyl[μ -(2-methyl-2-[η^2 : η^2 -(thionitroso)]propane]]diiron, 10Cl
 [68581-58-8]**



M 382.938

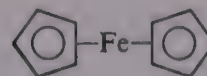
Red cryst. Bp 45° *in vacuo* subl.

Meij, R. *et al*, *J. Organomet. Chem.*, 1979, **170**, 337 (*synth, ir, pmr, ms*)

C₁₀H₁₀Fe Fe-00563

Ferrocene, 9Cl, 8Cl

Di- π -cyclopentadienyliiron. Bis(cyclopentadienyl)iron
 [102-54-5]



M 186.036

Used in anal. of transition metals, as iron fertiliser, electron beam sensitiser, fuel additive. Orange cryst. (EtOH aq.). Sol. EtOH, C₆H₆, insol. H₂O. Mp 172.5-173°. Bp 249°. Sublimes above 100°, steam-volatile. Exists in ordered and disordered phases. Undergoes aromatic-type subn. reacns. Oxidn. gives Ferrocenium, Fe-00564.

▷Toxic, TLV 10. LK0700000.

Org. Synth., Coll. Vol., **4**, 473, 476 (*synth*)

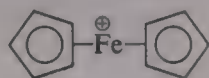
Woodward, R.B. *et al*, *J. Am. Chem. Soc.*, 1952, **74**, 2125
 (*deriv*)

Rosenblum, M., *Chemistry of the Iron Group Metallocenes*, Wiley, N.Y., 1965 (*rev*)

Gmelin's *Handbuch der Anorg. Chem.*, 8th Ed., 1974, vol. A1, Suppl. 14 (bibl, spectra)
 Barkatin, A.A., *CA*, 1978, **88**, 61869 (props)
 Seiler, P. et al, *Acta Crystallogr., Sect. B*, 1979, **35**, 1068 (struct)
 Sax, N.I., *Dangerous Properties of Industrial Materials*, 5th Ed., Van Nostrand-Reinhold, 1979, 685.
Hazards in the Chemical Laboratory, (Bretherick, L., Ed.), 3rd Ed., Royal Society of Chemistry, London, 1981, 284.

C₁₀H₁₀Fe⁺**Fe-00564****Ferrocenium, 9Cl, 8Cl***Bis(cyclopentadienyl)iron(1+)*

[12125-80-3]



M 186.036 (ion)

The paramagnetic, one-electron oxidn. prod. of ferrocene.
 Solns. exhibit blue-red dichroism.

Chloride: [1271-17-6].C₁₀H₁₀ClFe M 221.489Blue. Sol. H₂O.*Triiodide*: [1291-35-6].C₁₀H₁₀FeI₃ M 566.750Dark-red cryst. (MeNO₂).*Tetrafluoroborate*: [1282-37-7].C₁₀H₁₀BF₄Fe M 272.840Blue-violet. Sol. H₂O, Me₂CO, MeNO₂.*Hexafluorophosphate*: [11077-24-0].C₁₀H₁₀F₆FeP M 331.000

Blue.

Tetrachlorobismuthate: [62369-57-7].C₁₀H₁₀BiCl₄Fe M 536.828

Blue cryst.

Nesmeyanov, A.N. et al, *Izv. Akad. Nauk SSSR, Otd. Khim. Nauk*, 1962, 1772; *CA*, **58**, 7971 (synth)

Fritz, H.P. et al, *J. Organomet. Chem.*, 1967, **7**, 105 (pmr)Prins, R., *J. Chem. Soc., Chem. Commun.*, 1970, 280 (uv)Birchall, T. et al, *Inorg. Chem.*, 1971, **10**, 399 (mössbauer)Hendrickson, D.N. et al, *Inorg. Chem.*, 1971, **10**, 1559 (synth)

Lelievre, J. et al, *C. R. Hebd. Seances Acad. Sci.*, 1972, **275**, 1455 (synth, uv)

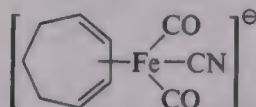
Duggan, M.D. et al, *Inorg. Chem.*, 1975, **14**, 955 (synth, epr, ir, uv)

Landers, A.G. et al, *J. Chem. Soc., Chem. Commun.*, 1976, 931 (cryst struct)

Kochler, F.H. et al, *J. Am. Chem. Soc.*, 1978, **100**, 5970 (cmr)**C₁₀H₁₀FeNO₂⁺****Fe-00565**

Dicarbonyl(cyano-C)(1,2,3,4-η)-1,3-cycloheptadiene[fer-
rate(1-), 10Cl

[73435-03-7]



M 232.042 (ion)

Precursor for isonitrile complexes.

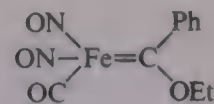
Na salt: [73434-97-6].C₁₀H₁₀FeNNaO₂ M 255.031

No phys. props. reported.

Moll, M. et al, *Z. Anorg. Allg. Chem.*, 1979, **458**, 202 (synth, pmr, ir, cmr)

Behrens, H. et al, *J. Organomet. Chem.*, 1980, **192**, 389 (use)**C₁₀H₁₀FeN₂O₄****Fe-00566****Carbonyl(ethoxyphenylmethylene)dinitrosyliron, 9Cl**

[35916-44-0]



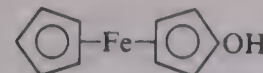
M 278.047

Orange cryst. Dec. > -30°.

Fischer, E.O. et al, *Chem. Ber.*, 1972, **105**, 588 (synth, ir, pmr, ms)

C₁₀H₁₀FeO**Fe-00567****Hydroxyferrocene, 9Cl***Ferrocenol, 8Cl*

[60084-97-1]



M 202.035

Yellow cryst. Mp 166-70° (under N₂). Air-sensitive.

Storage as tetrahydropyranyl deriv. recommended.

Me ether: [1273-87-6]. *Methoxyferrocene. Ferrocenyl methyl ether.*

C₁₁H₁₂FeO M 216.062

Orange cryst. (MeOH). Mp 39.5-40.5°.

Ac: [1273-88-7]. *Acetoxyferrocene. Ferrocenyl acetate.*C₁₂H₁₂FeO₂ M 244.073

Mp 64.5-66°.

Benzoyl: *Benzoyloxyferrocene. Ferrocenyl benzoate.*C₁₇H₁₄FeO₂ M 306.143

Mp 108.5-109.5°.

Tetrahydropyran-2-yl ether: [60084-98-2]. [(*Tetrahydro-2H-pyran-2-yl*)oxy]ferrocene, 9Cl. *Ferrocenyl-2-tetrahydropyranyl ether*. Orange cryst. (pet. ether). Mp 58°.

Nesmeyanov, A.N. et al, *Tetrahedron Lett.*, 1959, 13.

Nesmeyanov, A.N. et al, *Chem. Ber.*, 1960, **93**, 2717 (synth, derivs)

McVey, S. et al, *J. Chem. Soc. (C)*, 1967, 1847 (synth, deriv)Dvoryantsev, G.G. et al, *CA*, 1968, **68**, 109995 (pmr)Slocum, D.W. et al, *Tetrahedron Lett.*, 1972, 5217 (pmr, deriv)

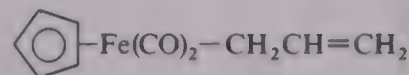
Epton, R. et al, *J. Organomet. Chem.*, 1976, **110**, C42; 1978, **150**, 93.

Koridze, A.A. et al, *J. Organomet. Chem.*, 1977, **136**, 57 (cmr, deriv)

C₁₀H₁₀FeO₂**Fe-00568****Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)-2-propenyliron, 9Cl**

η¹-*Allyl(η⁵-cyclopentadienyl)dicarbonyliron. Dicarbonyl-η¹-allyl-η⁵-cyclopentadienyliron*

[38960-10-0]



M 218.035

Amber oil. Bp_{0.001} 45°. Dec. at 65° or in air.Green, M.L.H. et al, *J. Chem. Soc.*, 1963, 189 (synth)

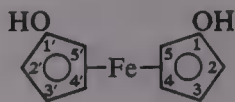
Ciappenelli, D.J. et al, *J. Organomet. Chem.*, 1972, **42**, 159 (cmr)

Aris, K.R. et al, *J. Chem. Soc., Dalton Trans.*, 1974, 2222 (ir)Cutler, A. et al, *J. Am. Chem. Soc.*, 1976, **98**, 3495 (synth, pmr)

Downs, R.L. *et al*, *Inorg. Chim. Acta*, 1978, **27**, 91 (*synth*)C₁₀H₁₀FeO₂

Fe-00569

1,1'-Dihydroxyferrocene

Bis(hydroxy-π-cyclopentadienyl)iron, 1,1'-*Ferrocenediol*

M 218.035

Air-sensitive yellow solid.

Di-Ac:C₁₄H₁₄FeO₄ M 302.109

Yellow cryst. (hexane). Mp 55-6°.

Dibenzoyl:C₂₄H₁₈FeO₄ M 426.251

Yellow cryst. Mp 114-5°.

Di-Me ether: [12215-05-3]. 1,1'-*Dimethoxyferrocene*, ⁹Cl.C₁₂H₁₄FeO₂ M 246.088

Yellow-orange cryst. (hexane). Mp 35-6°.

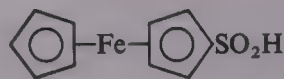
Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1959, **129**, 1060; 1960, **133**, 126 (*synth*)Nesmeyanov, A.N. *et al*, *Chem. Ber.*, 1960, **93**, 2717 (*synth*)C₁₀H₁₀FeO₂S

Fe-00570

Ferrocenesulfinic acid

Sulfinoferrocene, ¹⁰Cl

[65816-86-6]



M 250.095

Benzyl ester:C₁₇H₁₆FeO₂S M 340.219

Mp 144-6°.

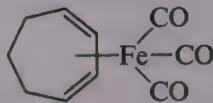
Perevalova, E.G. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1960, **132**, 853 (*synth*)Boev, V.I. *et al*, *Zh. Obshch. Khim.*, 1977, **47**, 2779 (*synth*)C₁₀H₁₀FeO₃

Fe-00571

Tricarbonyl[(1,2,3,4-η)-1,3-cycloheptadiene]iron, ⁹Cl

1,3-Cycloheptadienetricarbonyliron

[40674-86-0]



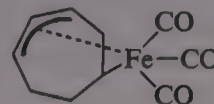
M 234.034

Yellow liq. Mp ~5°. Bp_{0.5} 60°.Dauben, H.J. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 497 (*synth*, *ir*, *pmr*)Crews, P., *J. Am. Chem. Soc.*, 1973, **95**, 636 (*pmr*)Aumann, R. *et al*, *Chem. Ber.*, 1976, **109**, 174 (*synth*, *ir*, *pmr*, *cmr*, *ms*)Behrens, H. *et al*, *J. Organomet. Chem.*, 1980, **192**, 389 (*pmr*)C₁₀H₁₀FeO₃

Fe-00572

Tricarbonyl[(1,3,4,5-η)-4-cycloheptene-1,3-diyl]iron, ⁹Cl

[41447-54-5]



M 234.034

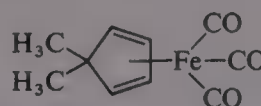
Yellow cryst. (MeOH). Mp 61-3°.

Aumann, R. *et al*, *Chem. Ber.*, 1976, **109**, 174 (*synth*, *ir*, *pmr*, *cmr*, *ms*)C₁₀H₁₀FeO₃

Fe-00573

Tricarbonyl[(1,2,3,4-η)-5,5-dimethyl-1,3-cyclopentadiene]iron, ⁹Cl

[42535-31-9]



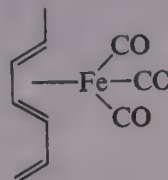
M 234.034

Yellow oil. Bp₁₅ 120°.Eilbracht, P. *et al*, *Chem. Ber.*, 1980, **113**, 542 (*synth*, *pmr*, *ir*, *uv*, *ms*)C₁₀H₁₀FeO₃

Fe-00574

Tricarbonyl[(3,4,5,6-η)-1,3,5-heptatriene]iron, ⁹Cl

[38599-36-9]



M 234.034

*syn, syn-form*Orange-yellow oil. Bp 50° *in vacuo*.Mauldin, C.H. *et al*, *Tetrahedron Lett.*, 1972, 2955 (*synth*)McArdle, P. *et al*, *J. Chem. Soc., Dalton Trans.*, 1978, 1678 (*synth*, *pmr*)C₁₀H₁₀FeO₃

Fe-00575

Tricarbonyl(isopropylcyclobutadiene)iron

Tricarbonyl[(1,2,3,4-η)-1-(1-methylethyl)-1,3-cyclobutadiene]iron, ¹⁰Cl

[64121-45-5]

As (η⁴-1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 withR = —CH(CH₃)₂

M 234.034

Pruitt, P.L. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1977, 907 (*pmr*)Gisi, A.V. *et al*, *J. Organomet. Chem.*, 1981, **215**, 221 (*props*)C₁₀H₁₀FeO₃

Fe-00576

Tricarbonyl[(1,2,3,4-η)-5-methyl-1,3-cyclohexadiene]iron

[60478-56-0]

As Tricarbonyl[(1,2,3,4-η)-5-chloro-1,3-cyclohexadiene]iron, Fe-00365 with

R = CH₃

M 234.034

exo-form

Yellow oil.

Birch, A.J. *et al*, *J. Chem. Soc. (A)*, 1968, 332 (*synth*, *pmr*)
 Pearson, A.J., *Aust. J. Chem.*, 1976, **29**, 1101 (*synth*, *pmr*, *ir*)
 Bandara, B.M.R. *et al*, *Tetrahedron Lett.*, 1980, 3625 (*synth*)

C₁₀H₁₀FeO₃**Fe-00577****Tricarbonyl[(1,2,3,4-η)-1-methyl-1,3-cyclohexadiene]iron, 10Cl**

[12307-19-6]

As Tricarbonyl[(1,2,3,4-η)-1,3-cyclohexadiene-1-carboxylic acid]iron, Fe-00538 with



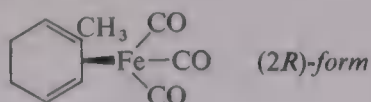
M 234.034

(1R)-form [75765-31-0][α]_D²⁵ –18° (c, 1 in CHCl₃).**(±)-form**Yellow-orange oil. Bp₃ 103-4°.

Birch, A.J. *et al*, *J. Chem. Soc. (C)*, 1971, 2465 (*synth*)
 Pearson, A.J., *Aust. J. Chem.*, 1976, **29**, 1679 (*cmr*)
 Birch, A.J. *et al*, *J. Org. Chem.*, 1981, **46**, 5166 (*resoln*)

C₁₀H₁₀FeO₃**Fe-00578****Tricarbonyl[(1,2,3,4-η)-2-methyl-1,3-cyclohexadiene]iron, 10Cl**

[12307-20-9]



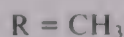
M 234.034

(2R)-form [75765-32-1][α]_D²⁵ –15° approx.**(±)-form**Yellow-orange oil. Bp₃ 103-4°.

Birch, A.J. *et al*, *J. Chem. Soc. (C)*, 1971, 2465 (*synth*)
 Pearson, A.J., *Aust. J. Chem.*, 1976, **29**, 1679 (*cmr*)
 Birch, A.J. *et al*, *J. Org. Chem.*, 1981, **46**, 5166 (*resoln*)

C₁₀H₁₀FeO₃**Fe-00579****Tricarbonyl[(1,2,3,4-η)-1,2,3-trimethyl-1,3-cyclobutadiene]iron**

As Tricarbonyl[(η⁴-1,2,3-triiodo-1,3-cyclobutadiene)iron, Fe-00146 with



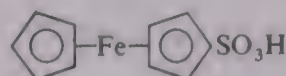
M 234.034

Orange-red liq. Mp –23° to –22°. Bp_{0.5} 44°.

Brune, H.A. *et al*, *J. Organomet. Chem.*, 1968, **12**, 485 (*synth*, *ir*, *pmr*)
 Brune, H.A. *et al*, *Z. Naturforsch., B*, 1968, **23**, 1184 (*nmr*)
 Brune, H.A. *et al*, *Z. Naturforsch., B*, 1971, **26**, 68 (*ir*)

C₁₀H₁₀FeO₃S**Fe-00580****Ferrocenesulfonic acid***Sulfoferrocene*, 9Cl

[32218-90-9]



M 266.094

Yellow plates (C₆H₆). Mp 103-4°.**Me ester:**C₁₁H₁₂FeO₃S M 280.121

Yellow needles (ligroin). Mp 54-5°.

Chloride: [33010-70-7]. *Chlorosulfonylferrocene*, 10Cl.*Ferrocenesulfonyl chloride*, 8Cl.C₁₀H₉ClFeO₂S M 284.540

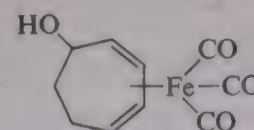
Crimson needles (ligroin). Mp 100°.

Knox, G.R. *et al*, *J. Chem. Soc.*, 1958, 646, 692 (*synth*)Falk, H. *et al*, *Monatsh. Chem.*, 1969, **100**, 1552 (*synth*)

Boev, V.I. *et al*, *Zh. Obshch. Khim.*, 1977, **47**, 426; *CA*, **86**,
 190167 (*synth*)

C₁₀H₁₀FeO₄**Fe-00582****Tricarbonyl[(2,3,4,5-η)-2,4-cycloheptadien-1-ol]iron, 10Cl**

[32716-70-4]



M 250.034

Shu, B.Y. *et al*, *Synth. Commun.*, 1978, **8**, 523; *CA*, **90**, 86825
 (*synth*)

C₁₀H₁₀FeO₄**Fe-00581****Tricarbonyl[(3,4,5,6-η)-3,5-cycloheptadien-1-ol]iron, 9Cl**

[38599-38-1]

M 250.034

Pale-yellow needles. Mp 108-9°.

Mauldin, C.H. *et al*, *Tetrahedron Lett.*, 1972, 2955 (*synth*, *pmr*)

Shu, B.Y. *et al*, *Synth. Commun.*, 1978, **8**, 523; *CA*, **90**, 86825
 (*synth*)

C₁₀H₁₀FeO₄**Fe-00583****Tricarbonyl[(3,4,5,6-η)-3,5-heptadien-2-one]iron, 10Cl***(2,4-Heptadien-6-one)iron tricarbonyl*

[33593-79-2]

As Tricarbonyl[(2,3,4,5-η)-2,4-hexadienedial]iron, Fe-
 00358 with



M 250.034

(+)-syn,syn-form [34872-47-4]

Red-orange oil or yellow cryst. (pentane). [α]_D +352°
 (Me₂CO). Melts below r.t.

(±)-syn,syn-form [12214-70-9]

Yellow solid (Et₂O/pet. ether). Mp 38.5-39.5°. Bp_{0.1}
 80°.

(±)syn-Me, anti-Ac-form [31811-33-3]

Yellow oil.

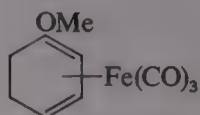
Cais, M. *et al*, *J. Organomet. Chem.*, 1966, **5**, 370 (*synth*, *ir*, *uv*)

Clinton, N.A. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 3058, 3065
 (*synth*, *ir*, *uv*)

Lillya, C.P. *et al*, *J. Organomet. Chem.*, 1971, **32**, 371 (*pmr*)Musco, A. *et al*, *Inorg. Chim. Acta*, 1971, **5**, 157 (*synth*, *cd*, *ir*)Kreiter, C.G. *et al*, *J. Organomet. Chem.*, 1974, **66**, C49 (*cmr*)

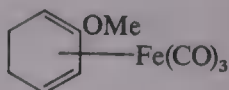
Frederiksen, J.S. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 3863
 (*synth*)

C₁₀H₁₀FeO₄ Fe-00584
Tricarbonyl[(1,2,3,4-η)-1-methoxy-1,3-cyclohexadiene]iron, 9Cl
Tricarbonyl(1,3-cyclohexadien-1-yl methyl ether)iron, 8Cl. 1-Methoxy-1,3-cyclohexadienetricarbonyliron
 [12318-18-?]



M 250.034
 Orange liq. Bp₁ 66-8°. Known in opt. active form.
 Birch, A.J. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1973, 1882 (*synth, pmr, ir*)
 Ireland, R.E. *et al*, *J. Org. Chem.*, 1974, **39**, 51 (*synth, pmr*)
 Lallmand, J.Y. *et al*, *J. Organomet. Chem.*, 1975, **91**, 71 (*pmr, cmr*)
Org. Synth., 1977, **57**, 107 (*synth*)

C₁₀H₁₀FeO₄ Fe-00585
Tricarbonyl[(1,2,3,4-η)-2-methoxy-1,3-cyclohexadiene]iron, 9Cl
2-Methoxy-1,3-cyclohexadienetricarbonyliron. Tricarbonyl(1,3-cyclohexadien-2-yl methyl ether)iron, 8Cl
 [12318-19-3]



M 250.034
 Orange liq. Bp₁ 66-8°. Opt. active form known.
 Birch, A.J. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1973, 1882 (*synth, pmr, ir*)
 Ireland, R.E. *et al*, *J. Org. Chem.*, 1974, **39**, 51 (*synth, pmr, cmr, ir*)
Org. Synth., 1977, **57**, 107 (*synth*)
 Pearson, A.J., *Aust. J. Chem.*, 1977, **30**, 407 (*cmr*)

C₁₀H₁₀FeO₄ Fe-00586
Tricarbonyl[(1,2,3,4-η)-5-methoxy-1,3-cyclohexadiene]iron, 9Cl
 [12307-21-0]
 As Tricarbonyl[(1,2,3,4-η)-5-chloro-1,3-cyclohexadiene]iron, Fe-00365 with

R = OMe

M 250.034

exo-form [12116-74-4]

Yellow oil. Bp_{0,1} 72°.

endo-form [55954-86-4]

Yellow oil.

Birch, A.J. *et al*, *J. Chem. Soc. (A)*, 1968, 332 (*synth, pmr*)
 Hine, K.E. *et al*, *J. Chem. Soc., Chem. Commun.*, 1975, 81 (*synth, pmr, ir, ms*)
 Burrows, A.L. *et al*, *J. Organomet. Chem.*, 1977, **127**, C22 (*pmr*)
Org. Synth., 1977, **57**, 107 (*synth*)
 Reddy, B.R. *et al*, *Tetrahedron Lett.*, 1980, **21**, 3639 (*synth*)

C₁₀H₁₀FeO₄ Fe-00587
Tricarbonyl[(2,3,4,5-η)-1-methyl-2,4-cyclopentadiene-1-methanol]iron, 9Cl
Tricarbonyl(5-hydroxymethyl-5-methyl-1,3-cyclopentadiene)iron
 [34823-28-4]



M 250.034

exo-methyl-form

Yellow needles (Et₂O). Mp 53°. Bp 30-5° *in vacuo* subl.

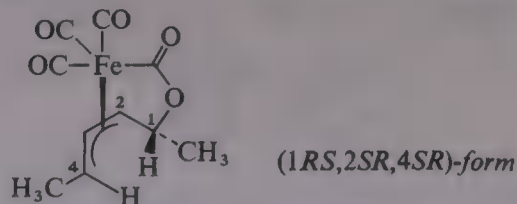
endo-methyl-form

Yellow needles (Et₂O). Mp 66-66.5°. Bp 30-5° *in vacuo* subl.

Müller, H. *et al*, *Chem. Ber.*, 1971, **104**, 2772 (*synth, ir, pmr*)

Müller, J. *et al*, *J. Organomet. Chem.*, 1973, **55**, 165 (*ms*)

C₁₀H₁₀FeO₅ Fe-00588
Tricarbonyl[η⁴-carbonyloxy(1,4-dimethyl-2-butene-1,4-diyl)]iron, 9Cl



M 266.033

3 Diastereoisomers known (configs. specified here by the Schlögl system).

(1RS,2SR,4SR)-form [57378-04-8]

syn,syn-form

Colourless needles (CH₂Cl₂/pentane). Mp 102-3° dec., 108-9°.

(1SR,2SR,3SR)-form [57327-05-6]

syn,anti-form

Pale-yellow cryst. (CH₂Cl₂/pentane). Mp 115-6° dec., 130-1°.

(1SR,2SR,4RS)-form [57328-03-7]

anti,anti-form

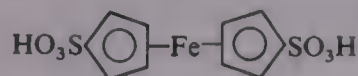
Colourless blocks (CH₂Cl₂/pentane). Mp 91-2° dec., 103-4°.

Chen, K.-N. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 5602 (*synth, struct, pmr, ir*)

Churchill, M.R. *et al*, *Inorg. Chem.*, 1976, **15**, 788 (*struct*)

Aumann, R. *et al*, *Chem. Ber.*, 1979, **112**, 3644 (*synth, struct, pmr, cmr, ir*)

C₁₀H₁₀FeO₆S₂ Fe-00589
1,1'-Ferrocenedisulfonic acid
1,1'-Disulfoferrocene, 9Cl
 [32218-91-0]



M 346.152

V. hygroscopic cryst. becoming blue on exp. to air. Mp 80-90° (tetrahydrate).

Di-Me ester:

C₁₂H₁₄FeO₆S₂ M 374.206

Cryst. (Et₂O). Mp 142-3°.

Diamide: see 1,1'-Bis(aminosulfonyl)ferrocene, Fe-00617

Dichloride: see 1,1'-Ferrocenedisulfonyl chloride, Fe-00513

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR*, 1957, **119**, 335, 949; *CA*, **52**, 368, 17225 (*synth, derivs, ir*)
Knox, G.R. *et al*, *J. Chem. Soc.*, 1958, 692 (*synth*)

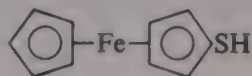
C₁₀H₁₀FeS

Fe-00590

Mercaptoferrocene, 9Cl

Ferrocenethiol

[52201-94-2]



M 218.096

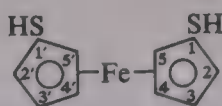
Foul-smelling orange-red oil; cryst. at -78°. Bp_{0.005} 110°. Oxidised by air to diferrocenyl disulfide.Knox, G.R. *et al*, *J. Chem. Soc.*, 1958, 692 (*synth*)C₁₀H₁₀FeS₂

Fe-00591

1,1'-Dimercaptoferrocene, 10Cl

1,1'-Ferrocenedithiol, 8Cl. Bis(mercaptocyclopentadienyl)iron

[32876-98-5]

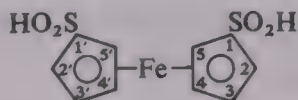


M 250.156

Air-sensitive foul smelling yellow cryst. Mp 59-60°. Bp_{0.3} 80° subl. Air oxidation gives a polymeric disulfide.Knox, G.R. *et al*, *J. Chem. Soc. (C)*, 1967, 1842 (*synth, derivs*)Bishop, J.J. *et al*, *J. Organomet. Chem.*, 1971, **27**, 241 (*synth, ir, pmr*)C₁₀H₁₀FeS₂O₄

Fe-00592

Ferrocene-1,1'-disulfinic acid



M 314.154

Orange-yellow cryst. Mp 126-8° dec.

Di-Na salt:

C₁₀H₈FeNa₂S₂O₄ M 358.117

Trihydrate. Mp 290-8° dec.

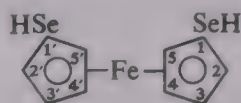
Perevalova, E.G. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci.**Khim.*, 1960, **132**, 853 (*synth*)C₁₀H₁₀FeSe₂

Fe-00593

1,1'-Diselenylferrocene, 10Cl

1,1'-Ferrocenediselenol

[78100-23-9]



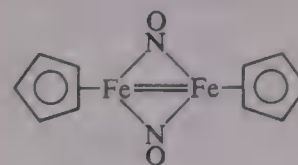
M 343.956

Air-sensitive orange needles (Et₂O). Bp_{0.25} 80° subl.Osborne, A.G. *et al*, *J. Organomet. Chem.*, 1981, **205**, 395 (*synth*)C₁₀H₁₀Fe₂N₂O₂

Fe-00594

Bis(η⁵-2,4-cyclopentadien-1-yl)bis[μ-(nitrosyl-N:N)]diiron, 9Cl

[52124-51-3]



M 301.895

Dark-green cryst. (C₆H₆/hexane). Subl. at 120-40° in vacuo.Brunner, H., *J. Organomet. Chem.*, 1968, **14**, 173 (*synth, ir, pmr, ms, uv*)Calderon, J.L. *et al*, *J. Organomet. Chem.*, 1974, **64**, C16 (*struct*)C₁₀H₁₀Fe₂O₆S₂

Fe-00595

Hexacarbonylbis[μ-(ethanethiolato)]diiron, 9Cl

As Hexacarbonylbis[μ-(methanethiolato)]diiron, Fe-00281 with

R = Et

M 401.999

Dark-red cryst. with onion-like odour (pet. ether).

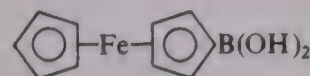
Dahl, L.F. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 1761 (*synth*)Dahl, L.F. *et al*, *Inorg. Chem.*, 1963, **2**, 328 (*struct*)C₁₀H₁₁BFeO₂

Fe-00596

Ferroceneboronic acid

Boronoferrocene, 9Cl. Ferrocenylboronic acid

[12152-94-2]



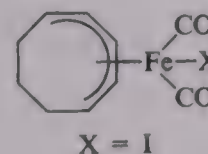
M 229.853

Yellow cryst. Mp 143-8° (sealed tube). Rapidly hydrol. by hot H₂O giving ferrocene.Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR*, 1959, **126**, 1004 (*synth*)Shechter, H. *et al*, *J. Org. Chem.*, 1961, **26**, 1034 (*synth*)Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Otd. Khim. Nauk*, 1968, 2371 (*synth*)*Org. Reactions*, 1969, **17**, 1 (*synth*)Epton, R. *et al*, *J. Organomet. Chem.*, 1978, **150**, 93, 101 (*synth, ir, pmr, ms*)C₁₀H₁₁FeIO₂

Fe-00597

Dicarbonyl[(1,2,3,4,5-η)-2,4-cyclooctadien-1-yl]iodoiron, 10Cl

[56977-51-6]



M 345.947

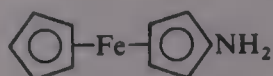
Schiavon, G. *et al*, *J. Organomet. Chem.*, 1981, **210**, 247 (*synth, ir*)

C₁₀H₁₁FeN

Aminoferrocene, 9Cl

Ferrocenylamine, 8Cl

[1273-82-1]



M 201.051

Yellow cryst. Mp 153-5°.

Ac: Acetamidoferrocene.

C₁₂H₁₃FeNO M 243.088

Mp 167-8° dec.

Benzoyl: Benzamidoferrocene.

C₁₇H₁₅FeNO M 305.159

Mp 177-8°.

N-Me: Methylaminoferrocene.

C₁₁H₁₃FeN M 215.077

Brown solid. Mp 55-6°.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR*, 1955, **102**, 535 (*synth*)Schlögl, K. *et al*, *Monatsh. Chem.*, 1966, **97**, 150 (*deriv*)Abramovitch, R.A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 134 (*synth*)Nesmeyanov, A.N. *et al*, *Zh. Strukt. Khim.*, 1973, **14**, 49; *CA*, **78**, 158509 (*cmr*)El Murr, N., *J. Organomet. Chem.*, 1976, **112**, 189 (*pmr*)Aleksieva, I.A. *et al*, *Zh. Obshch. Khim.*, 1977, **47**, 1874 (*ir*)Röling, P.V., *Synth. React. Inorg. Metal-Org. Chem.*, 1978, **8**, 83.

Fe-00598

As Dicarboxyl(η⁵-2,4-cyclopentadien-1-yl)
(difluorophosphinothioyl-*P*)iron, Fe-00189 withL = –SC(S)NMe₂

M 297.169

Brown-orange cryst. (C₆H₆/pet. ether). Mp 102-4°.O'Connor, C. *et al*, *J. Chem. Soc. (A)*, 1969, 84 (*synth*, *ir*, *pmr*)C₁₀H₁₁FeNO₃

Fe-00602

Tricarbonyl[(dimethylaminomethyl)cyclobutadiene]iron

Tricarbonyl[(1,2,3,4-η)-N,N-dimethyl-1,3-cyclobutadiene-1-methanamine]iron

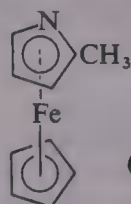
As (η⁴-1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 withR = –CH₂NMe₂

M 249.049

B, MeI: [79623-84-0]. Tricarbonyl[(1,2,3,4-η)-N,N,N-trimethyl-1,3-cyclobutadiene-1-methanaminiumiron(1+) iodide.

C₁₁H₁₄FeINO₃ M 390.988Fitzpatrick, J.D. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 3254 (*synth*)Brunet, J.C. *et al*, *J. Organomet. Chem.*, 1981, **216**, 73 (*synth*)C₁₀H₁₁FeN

2-Methylazaferrocene

π-Cyclopentadienyl-π-(2-methylpyrrolyl)iron, 8Cl. (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-2-methyl-1H-pyrrolyl]iron

(2R)-form

M 201.051

(2R)-form

Orange cryst. (Me₂CO). Mp 42-52°. [α]_D²⁰ –62° (c, 0.04 in cyclohexane).

(±)-form

Orange-red oil.

Joshi, K.K. *et al*, *J. Organomet. Chem.*, 1964, **1**, 471 (*synth*)Bauer, K. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1969, **8**, 135

(synth, resoln, abs config)

Falk, H. *et al*, *Monatsh. Chem.*, 1969, **100**, 1507 (*cd*)

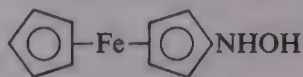
Fe-00599

C₁₀H₁₁FeNO

(Hydroxyamino)ferrocene, 9Cl

N-Ferrocenylhydroxylamine

[34978-61-5]



M 217.050

Oxidatively unstable.

Nekrasov, L.N., *Faraday Discuss. Chem. Soc.*, 1973, **56**, 308 (*synth*)

Fe-00600

C₁₀H₁₁FeNO₂S₂Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(dimethylcarbamodithioato-S)iron

Dicarbonyl-π-cyclopentadienyl(dimethyldithiocarbamate)iron, 8Cl. Cyclopentadienyliron dicarbonyl dimethyldithiocarbamate

Fe-00601

C₁₀H₁₁FeNO₄

Fe-00603

(4-Acetyl-π-cyclohexenyl)dicarbonylnitrosyliron, 8Cl

Dicarbonyl[1-[(1,2,3-η)-2-cyclohexen-1-yl]-4-yl]ethanone]nitrosyliron

As Dicarboxyl[(1,2,3-η)-2-cyclohexen-1-yl]nitrosyliron, Fe-00318 with

R = H₃CCO–

M 265.048

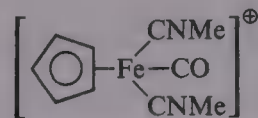
Red oil.

Chaudhari, F.M. *et al*, *J. Chem. Soc. (C)*, 1967, 2255 (*synth*, *ir*)C₁₀H₁₁FeN₂O⁺

Fe-00604

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)bis(isocyanomethane)-iron(1+), 9Cl

Carbonyl-π-cyclopentadienylbis(methyl isonitrile)-iron(1+). Cyclopentadienylcarbonylbis(methyl isocyanide)iron(1+)



M 231.057 (ion)

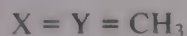
Iodide: [53419-36-6].

C₁₀H₁₁FeIN₂O M 357.961Yellow cryst. (CHCl₃/hexane). Mp 220-1° dec.Angelici, R.J. *et al*, *J. Organomet. Chem.*, 1974, **67**, 287 (*ir*, *pmr*)Grant, M.E. *et al*, *J. Coord. Chem.*, 1979, **9**, 205 (*synth*, *ir*, *mössbauer*)Johnson, B.V. *et al*, *Inorg. Chem.*, 1979, **18**, 1796 (*ir*, *mössbauer*)C₁₀H₁₁FeO₂⁺

Fe-00605

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(1-methylethylidene)-iron(1+), 10ClDicarbonyl(η⁵-2,4-cyclopentadienyl)-isopropylideneiron(1+)

[69721-22-8]

As Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(methoxymethylene)iron(1+), Fe-00421 with

M 219.043 (ion)

1,1-Dimethylcyclopropanation reagent.

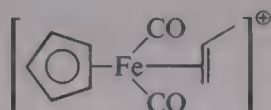
Tetrafluoroborate: [81939-62-0].

C₁₀H₁₁BF₄FeO₂ M 305.846Yellow powder, unstable in soln. above -11°. Dec. in soln. to give [CpFe(CO)₂H₂C=CHCH₃]⁺.Casey, C.P. et al, *J. Am. Chem. Soc.*, 1982, **104**, 3761 (synth, pmr)C₁₀H₁₁FeO₂⁺

Fe-00606

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2- η)-1-propene]iron(1+), 9Cl(η^5 -Cyclopentadienyl)(η^2 -propylene)-dicarbonyliron(1+)

[38817-10-6]



M 219.043 (ion)

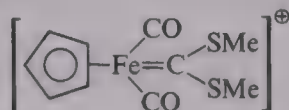
Tetrafluoroborate: [37668-14-7].

C₁₀H₁₁BF₄FeO₂ M 305.846

Yellow cryst.

Faller, J.W. et al, *J. Organomet. Chem.*, 1975, **88**, 101 (synth, conform)Cutler, A. et al, *J. Am. Chem. Soc.*, 1976, **98**, 3495 (synth, ir, pmr)Laycock, D.E. et al, *Inorg. Chim. Acta*, 1980, **42**, 263 (cmr)Schmidt, E. et al, *J. Organomet. Chem.*, 1981, **220**, 87 (synth)Abram, T.S. et al, *J. Chem. Soc., Perkin Trans. 1*, 1982, 285 (synth)Casey, J.P. et al, *J. Am. Chem. Soc.*, 1982, **104**, 3761 (synth)Kremer, K.A. et al, *J. Am. Chem. Soc.*, 1982, **104**, 6119 (synth)C₁₀H₁₁FeO₂S₂⁺

Fe-00607

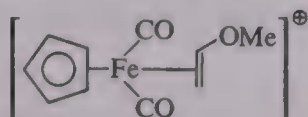
[Bis(methylthio)methylene]dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+), 10Cl

M 283.163 (ion)

Hexafluorophosphate: [69532-11-2].

C₁₀H₁₁F₆FeO₂PS₂ M 428.127Yellow cryst. (Me₂CO/hexane). Mp 163-5°.McCormick, F.B. et al, *Inorg. Chem.*, 1979, **18**, 1231 (synth, ir, pmr)C₁₀H₁₁FeO₃⁺

Fe-00608

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2- η)-methoxyethylene]iron(1+), 9Cl(π -Cyclopentadienyl)(π -methyl vinyl ether)-dicarbonyliron(1+)

M 235.042 (ion)

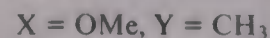
Hexafluorophosphate: [55337-27-4].

C₁₀H₁₁F₆FeO₃P M 380.006Yellow-orange cryst. (Me₂CO/Et₂O). Dec. at 129°.Cutler, A. et al, *J. Organomet. Chem.*, 1974, **77**, 381 (synth, ir, pmr)C₁₀H₁₁FeO₃⁺

Fe-00609

Dicarbonyl(η^6 -2,4-cyclopentadien-1-yl)(1-methoxyethylidene)iron(1+), 10Cl

[74171-07-6]

As Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(methoxymethylene)iron(1+), Fe-00421 with

M 235.042 (ion)

Hexafluorophosphate: [74171-08-7].

C₁₀H₁₁F₆FeO₃P M 380.006

Yellow solid, slowly hydrolysed in air.

Tetrafluoroborate: [81939-66-4].

C₁₀H₁₁BF₄FeO₃ M 321.846

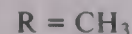
No phys. props. reported.

Cutler, A., *J. Am. Chem. Soc.*, 1979, **101**, 604 (synth, ir, pmr)Casey, C.P. et al, *J. Am. Chem. Soc.*, 1982, **104**, 3761 (synth, ir, cmr, pmr)C₁₀H₁₁FeO₃⁺

Fe-00610

Tricarbonyl[(2,3,4,5,6- η)-3,5-heptadien-2-yl]iron(1+)Tricarbonyl(1,5-dimethyl- π -pentadienyl)iron

[46238-82-8]

As Tricarbonyl[(1,2,3,4,5- η)-2,4-hexadienyl]iron(1+), Fe-00422 with

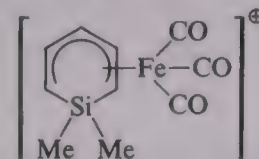
M 235.042 (ion)

syn,anti form stable in strong acid at low temp. but only *syn,syn* form isol. as salts.*syn,syn-form*

Tetrafluoroborate: [33363-78-9].

C₁₀H₁₁BF₄FeO₃ M 321.846Yellow needles (MeNO₂). Mp >220° dec.Mahler, J.E. et al, *J. Am. Chem. Soc.*, 1963, **85**, 3959 (synth, pmr, ir)Sorensen, T.S. et al, *J. Organomet. Chem.*, 1970, **25**, C62 (pmr)C₁₀H₁₁FeO₃Si⁺

Fe-00611

Tricarbonyl[(2,3,4,5,6- η)-1,1-dimethylsilacyclohexa-3,5-dien-2-yl]iron(1+), 9Cl

M 263.128 (ion)

Hexafluorophosphate: [58939-19-8].

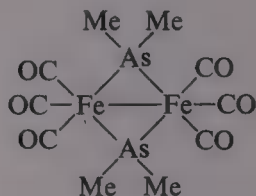
C₁₀H₁₁F₆FeO₃PSi M 408.092Bright-yellow needles (Me₂CO). Sol. H₂O, EtOH, Me₂CO. Mp 175-7° dec.Fink, W., *Helv. Chim. Acta*, 1976, **59**, 276 (synth, pmr)

C₁₀H₁₂As₂Fe₂O₆

Fe-00612

Hexacarbonylbis[μ-(dimethylarsino)]diiron, 9Cl

[15525-09-4]



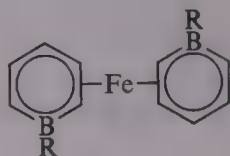
M 489.738

Orange-red cryst. (C₆H₆/heptane). Mp 210-1° dec. (209°).Hayter, R.G., *Inorg. Chem.*, 1964, **3**, 711 (*synth, ir, pmr*)Adams, R.D. *et al*, *Inorg. Chem.*, 1975, **14**, 1395 (*synth, pmr, cmr*)Keller, E. *et al*, *Chem. Ber.*, 1977, **110**, 430 (*struct*)Umland, P. *et al*, *Chem. Ber.*, 1977, **110**, 2809 (*synth, pmr, ir*)C₁₀H₁₂B₂Fe

Fe-00613

Bis(η⁶-boratabenzene)iron, 10Cl

[68344-23-0]



R = H

M 209.672

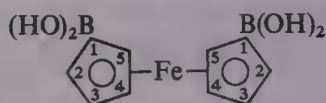
Red octahedral cryst. Bp 165° subl. Undergoes nucleophilic substitution at B and electrophilic substitution at C.

Ashe, A.J. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 7066 (*synth, ms, pmr, nmr*)C₁₀H₁₂B₂FeO₄

Fe-00614

1,1'-Ferrocenediboronic acid

Ferrocenylene-1,1'-diboronic acid

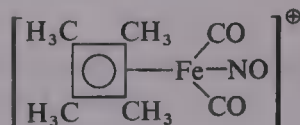


M 273.669

Yellow cryst. (H₂O). Mp 180° dec., 220° dec. Unstable in hot water.Nesmeyanov, A.N. *et al*, *Chem. Ber.*, 1960, **93**, 2717 (*synth, use*)Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1968, 2371 (*synth*)*Org. React.*, 1969, **17**, 1 (*synth*)C₁₀H₁₂FeNO₃⁺

Fe-00615

Dicarbonylnitrosyl[(1,2,3,4-η)-1,2,3,4-tetramethyl-1,3-cyclobutadiene]iron(1+), 9Cl



M 250.057 (ion)

Hexafluorophosphate: [43218-57-1].

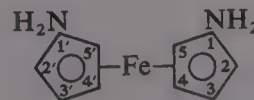
C₁₀H₁₂F₆FeNO₃P M 395.021Yellow cryst. (CH₂Cl₂/hexane). Mp >155° dec.Efraty, A. *et al*, *Inorg. Chem.*, 1974, **13**, 1269 (*synth, ir, pmr, mössbauer*)C₁₀H₁₂FeN₂

Fe-00616

1,1'-Diaminoferrocene, 9Cl

Bis(amino-π-cyclopentadienyl)iron. 1,1'-Ferrocenediamine

[41636-79-7]



M 216.065

Air-sensitive yellow solid.

*Bis(methoxycarbonyl):*C₁₄H₁₆FeN₂O₄ M 332.138

Yellow-brown rods (MeOH). Mp 177-8°.

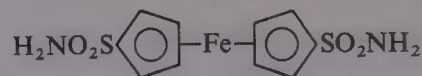
*Bis(benzyloxycarbonyl):*C₂₆H₂₄FeN₂O₄ M 484.334Yellow needles (Et₂O). Mp 107.5-108.5°.Knox, G.R. *et al*, *J. Chem. Soc.*, 1961, 4615 (*synth, derivs*)C₁₀H₁₂FeN₂O₄S₂

Fe-00617

1,1'-Bis(aminosulfonyl)ferrocene, 9Cl

1,1'-Ferrocenedisulfonamide

[57363-02-7]



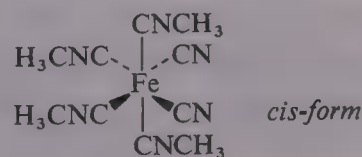
M 344.183

Yellow granular cryst. (EtOAc/pet. ether). Mp 198-202° dec.

Abramovitch, R.A. *et al*, *J. Org. Chem.*, 1976, **41**, 491 (*synth, pmr, ir, ms*)C₁₀H₁₂FeN₆

Fe-00618

Di(cyano-C)tetrakis(isocyanomethane)iron, 9Cl

Dicyanotetrakis(methyl isocyanide)iron, 8Cl

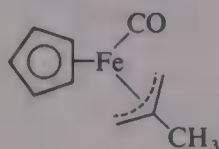
M 272.092

cis-form [15334-51-7]Hygroscopic lemon-yellow needles (CHCl₃). Mp 255-7° dec. Forms cryst. solvates with H₂O, CHCl₃, MeOH.*trans-form* [15334-26-6]Microscopic yellow needles (H₂O) or rectangular yellow plates (CHCl₃).Powell, H.M., *J. Chem. Soc.*, 1939, 1106 (*synth*)Hulme, R. *et al*, *J. Chem. Soc.*, 1957, 719 (*struct*)Berrett, R.R. *et al*, *J. Chem. Soc. (A)*, 1967, 525; 1969, 904 (*ir*)Condorelli, G. *et al*, *Inorg. Chim. Acta*, 1973, **7**, 7 (*uv, bibl*)

C₁₀H₁₂FeO

Fe-00619

Carbonyl(η^5 -2,4-cyclopentadien-1-yl)((1,2,3- η)-2-methyl-2-propenyl)iron, 9Cl
 π -Cyclopentadienyl- π -(2-methylallyl)carbonyliron.
 (η^3 -2-Methyl-2-propenyl)(η^5 -cyclopentadienyl)carbonyliron
 [52326-26-8]



M 204.051

endo-formIsom. to *exo*-form in soln.**exo-form**

Yellow solid. Sol. pet. ether. Mp 31-3°. More stable isomer.

Faller, J.W. *et al*, *J. Organomet. Chem.*, 1974, **65**, 395 (*synth*, *ir*, *pmr*)Fish, R.W. *et al*, *J. Organomet. Chem.*, 1976, **105**, 101 (*synth*, *ir*, *pmr*, *uv*)C₁₀H₁₂FeO₂

Fe-00620

Dicarbonyl(η^5 -2,4-cyclopentadienylisopropyliron, 8Cl
 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(1-methylethyl)-iron, 9Cl. (η^5 -Cyclopentadienyl)dicarbonyl(2-propyl)-iron. σ -(2-Propyl)- π -cyclopentadienyliron dicarbonyl
 [32611-33-9]

As Bromodicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00173 with

M 220.051

Thermally unstable amber oil. Dec. >ca. 60°.

Green, M.L.H. *et al*, *J. Organomet. Chem.*, 1963, **1**, 58 (*synth*, *ir*, *pmr*)Giering, W.P. *et al*, *J. Organomet. Chem.*, 1970, **25**, C71 (*synth*, *ir*)Lennon, P. *et al*, *J. Organomet. Chem.*, 1976, **108**, 93 (*synth*)Florio, S.M. *et al*, *J. Organomet. Chem.*, 1976, **112**, C17 (*synth*)Bodnar, T. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 3292 (*synth*)C₁₀H₁₂FeO₂

Fe-00621

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)propyliron, 9Cl
 σ -Propyl- π -cyclopentadienyliron dicarbonyl
 [51177-83-4]

As Bromodicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00173 with

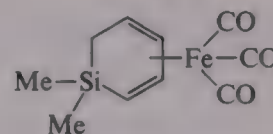
M 220.051

Thermally unstable amber oil. Dec. at ca. 60°.

Green, M.L.H. *et al*, *J. Organomet. Chem.*, 1963, **1**, 58 (*synth*, *ir*, *pmr*)Lennon, P. *et al*, *J. Organomet. Chem.*, 1976, **112**, C17 (*synth*)C₁₀H₁₂FeO₃Si

Fe-00622

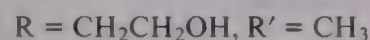
Tricarbonyl[(2,3,4,5- η)-1,1-dimethylsilacyclohexa-2,4-diene]iron, 9Cl
 [56665-16-8]



M 264.136

Orange-yellow oil. Bp_{0.55} 59°.Fink, W., *Helv. Chim. Acta*, 1975, **58**, 1205; 1976, **59**, 276 (*synth*, *ms*, *pmr*)C₁₀H₁₂FeO₄

Fe-00623

Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-1-ol]iron, 9ClAs Tricarbonyl[(2,3,4,5- η)-2,4-hexadienedial]iron, Fe-00358 with

M 252.049

syn,syn-form [38599-37-0]

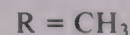
Viscous orange oil.

Mauldin, C.H. *et al*, *Tetrahedron Lett.*, 1972, 2955 (*synth*, *pmr*)C₁₀H₁₂FeO₄

Fe-00624

Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-2-ol]iron, 10Cl

[12084-04-7]

As Tricarbonyl[(3,4,5,6- η)-3,5-hexadien-2-ol]iron, Fe-00438 with

M 252.049

(2RS,3SR)-form [42378-13-2](±)-syn,syn- ψ -endo-formFine yellow needles or light-yellow plates (pet. ether). Mp 41°, 70-71.5° (dimorph.). Bp_{0.3} 110-5°.**(2RS,3RS)-form** [31811-15-1](±)-syn,syn- ψ -exo-form

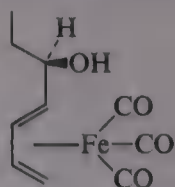
Yellow needles or yellow plates (pentane). Mp 85-6°.

Bp_{0.3} 110-5°. Subl. at 45° *in vacuo*.Mahler, J.E. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 3955 (*synth*, *ir*)Clinton, N.A. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 3058 (*synth*, *ir*, *uv*, *pmr*, *config*)Kreiter, C.G. *et al*, *J. Organomet. Chem.*, 1974, **66**, C49 (*cmr*)Willcott, M.R. *et al*, *Org. Magn. Reson.*, 1975, **7**, 557 (*pmr*)Riley, P.E. *et al*, *Acta Crystallogr., Sect. B*, 1976, **32**, 381 (*struct*)Gresham, D.G. *et al*, *J. Organomet. Chem.*, 1978, **144**, 71 (*synth*)

C₁₀H₁₂FeO₄

Fe-00625

Tricarbonyl(4,5,6,7- η)-4,6-heptadien-3-ol]iron, 10Cl
(1,3-Heptadien-5-ol)iron tricarbonyl
[67078-08-4]

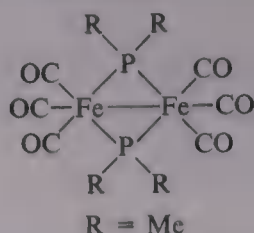


M 252.049

syn-ψ-endo-(?)-formPale-yellow liq. Bp_{0.4} 92-4°.Bayoud, R.S. *et al*, *J. Organomet. Chem.*, 1978, **150**, 75 (*synth*, *pmr*)C₁₀H₁₂Fe₂O₆P₂

Fe-00626

Hexacarbonylbis[μ-(dimethylphosphino)]diiron, 9Cl
[14871-43-3]



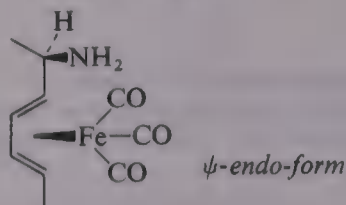
M 401.843

Yellow or orange cryst. (C₆H₆/hexane or CH₂Cl₂/hexane). Mp 221.5-222° (216-7°). Bp_{0.1} 90° subl.

Hayter, R.G., *Inorg. Chem.*, 1964, **3**, 711 (*synth*, *ir*, *pmr*)
Johnson, B.F.G. *et al*, *J. Chem. Soc. (A)*, 1967, 1445 (*ms*)
Dessy, R.E. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 746 (*pmr*)
Adams, R.D. *et al*, *Inorg. Chem.*, 1975, **14**, 1395 (*synth*, *pmr*, *cmr*)

C₁₀H₁₃FeNO₃

Fe-00627

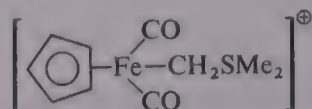
Tricarbonyl(3,4,5,6- η)-3,5-heptadien-2-amine]iron

M 251.065

syn, syn-form [53556-32-4]Obt. as 1:1 mixt. of ψ-exo and ψ-endo isomers. Bp_{0.3} 95°.Stüber, S. *et al*, *Synthesis*, 1974, 437 (*synth*, *pmr*, *ir*, *ms*)C₁₀H₁₃FeO₂S[⊕]

Fe-00628

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(dimethylsulfonium- η -methylide)iron(1+), 10Cl



M 253.119 (ion)

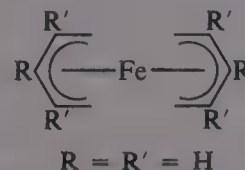
Cyclopropanation reagent for olefins.

Tetrafluoroborate: [72120-26-4].

C₁₀H₁₃BF₄FeO₂S M 339.922Yellow cryst. (DMF/Et₂O).Brandt, S. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 6473 (*synth*, *use*, *pmr*)O'Connor, E.J. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 1869 (*synth*, *struct*)C₁₀H₁₄Fe

Fe-00629

Bis(η⁵-2,4-pentadienyl)iron, 10Cl
[74910-62-6]



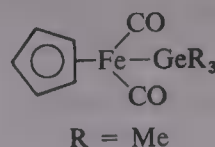
M 190.068

Unstable orange cryst. Poorly characterized.

Wilson, D.R. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 5928 (*synth*)C₁₀H₁₄FeGeO₂

Fe-00630

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(trimethylgermyl)iron, 9Cl
[Dicarbonyl(η⁵-cyclopentadienyl)iron]trimethylgermane
[32054-63-0]



M 294.656

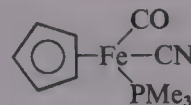
Orange waxy solid. Mp 58-61°.

Inorg. Synth., 1970, **12**, 64 (*synth*, *pmr*, *ir*)
Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1971, 2287 (*synth*)
Gansow, O.A. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 3406 (*ir*, *cmr*)

C₁₀H₁₄FeNOP

Fe-00631

Carbonyl(cyano-C)(η⁵-2,4-cyclopentadien-1-yl)(trimethylphosphine)iron, 9Cl
Cyclopentadienylcarbonyl(trimethylphosphine)iron cyanide. (η⁵-Cyclopentadienyl)carbonyl(cyano)-(trimethylphosphine)iron
[57386-72-8]



M 251.047

Yellow solid. Mp 122-4°.

Faller, J.W. *et al*, *J. Organomet. Chem.*, 1975, **96**, 99 (*synth*, *ir*, *pmr*, *cmr*)C₁₀H₁₄FeO₂P[⊕]

Fe-00632

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(trimethylphosphine)iron(1+), 10Cl

As Amminedicarbonyl(η⁵-2,4-cyclopentadien-1-yl)-iron(1+), Fe-00220 with

X = PMe₃

M 253.040 (ion)

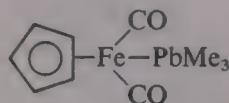
Tetrafluoroborate: [78192-49-1].

C₁₀H₁₄BF₄FeO₂P M 339.844Yellow cryst. (Me₂CO/pet. ether). Mp >250°.

Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1981, **206**, 77 (*synth*, *ir*, *pmr*)

C₁₀H₁₄FeO₂Pb**Fe-00633**

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trimethylplumbyl)-iron, 10Cl
(Trimethylplumbyl)(cyclopentadienyl)dicarbonyliron
[61754-41-4]



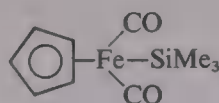
M 429.266

Orange-red oil. Undergoes thermal and photochemical dec.

Pannell, K.H., *J. Organomet. Chem.*, 1980, **198**, 37.

C₁₀H₁₄FeO₂Si**Fe-00634**

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trimethylsilyl)iron, 9Cl
(Cyclopentadienyldicarbonyliron)trimethylsilane
[31811-63-9]



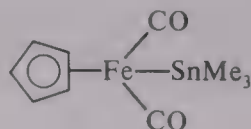
M 250.152

Orange waxy solid. Bp_{0.2} 58° subl.

Piper, T.S. *et al*, *Naturwissenschaften*, 1956, **43**, 129 (*synth*)
King, R.B. *et al*, *Inorg. Chem.*, 1968, **8**, 1510 (*synth*, *pmr*, *ir*)
Pannell, K.H. *et al*, *J. Organomet. Chem.*, 1980, **186**, 85 (*ir*, *mössbauer*)

C₁₀H₁₄FeO₂Sn**Fe-00635**

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trimethylstannyl)iron, 9Cl
[Dicarbonyl(η^5 -cyclopentadienyl)iron]trimethylstannane. (Cyclopentadienyldicarbonyliron)trimethyltin
[12084-36-5]



M 340.756

Air-sensitive orange-brown liq. Mp > -10°, < 15°.

King, R.B. *et al*, *Inorg. Chem.*, 1968, **7**, 1510 (*synth*, *ir*, *pmr*)
Abel, E.W. *et al*, *J. Organomet. Chem.*, 1973, **49**, 435 (*synth*, *ir*, *pmr*)
Gielen, M. *et al*, *Bull. Soc. Chim. Belg.*, 1975, **84**, 939 (*synth*, *ir*, *pmr*, *uv*)
Harris, D.H. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 311 (*nmr*)
Faller, J.W. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 1395 (*ir*, *pmr*)
Spalding, T.R., *J. Organomet. Chem.*, 1978, **149**, 371 (*ms*)

C₁₀H₁₄FeO₅P⁺**Fe-00636**

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trimethyl phosphite-P)iron(1+)
Dicarbonyl- π -cyclopentadienyl(phosphorous acid)-iron(1+) trimethyl ester, 8Cl
As (Carbonothioyl)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00264 with



M 301.038 (ion)

Tetraphenylborate: [31781-49-4].

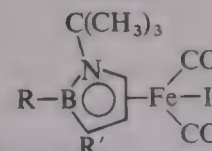
C₃₄H₃₄BFeO₅P M 620.270

Yellow-orange solid (Me₂CO/pet. ether).

Haines, R.J. *et al*, *J. Organomet. Chem.*, 1971, **28**, 405 (*synth*, *ir*, *pmr*)

C₁₀H₁₅BFeINO₂**Fe-00637**

[(3,4,5- η)-1-tert-Butyl-2,3-dihydro-2-methyl-1H-1,2-azaborol-3-yl-B²,N¹]iodoiron
Dicarbonyl[(3,4,5- η)-1-(1,1-dimethylethyl)-2,3-dihydro-2-methyl-1H-1,2-azaborol-3-yl-B²,N¹]iodoiron, 10Cl
[75334-22-4]



R = Me, R' = H

M 374.796

Red-brown cryst. (pet. ether). Mp 87-8°.

Schulze, J. *et al*, *J. Organomet. Chem.*, 1980, **193**, 83 (*synth*, *ms*, *ir*, *pmr*, *nmr*)

C₁₀H₁₅FeO₄P**Fe-00638**

Tetracarbonyl(triethylphosphine)iron, 10Cl, 8Cl
[15078-01-0]



M 286.047

Colourless cryst. by subl. *in vacuo* at 40°. Mp 80°.

Dalton, J. *et al*, *J. Chem. Soc. (A)*, 1968, 1199 (*ir*)
Strohmeier, W. *et al*, *Chem. Ber.*, 1969, **102**, 3613 (*synth*, *uv*)
Herberhold, M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1979, 654 (*mössbauer*)
Mann, B.E., *J. Chem. Soc., Chem. Commun.*, 1971, 1173 (*cmr*, *nmr*)

C₁₀H₁₅FeO₇P**Fe-00639**

Tetracarbonyl(triethyl phosphite-P)iron, 9Cl
Tetracarbonyl(phosphorous acid)iron triethyl ester, 8Cl
[21494-36-0]



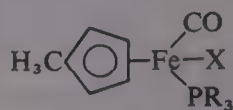
M 334.045

Pale-yellow liq. Bp_{0.1} 100°.

Udovich, C.A. *et al*, *Inorg. Chem.*, 1969, **8**, 1066 (*stereochem*)
Cotton, J.D. *et al*, *Aust. J. Chem.*, 1969, **22**, 2673 (*synth*, *ir*, *pmr*, *ms*, *raman*)
Greatrex, R. *et al*, *J. Organomet. Chem.*, 1976, **14**, 199 (*mössbauer*)

C₁₀H₁₆ClFeO₄P**Fe-00640**

Carbonylchloro[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](trimethyl phosphite)iron
Carbonylchloro(methyl- π -cyclopentadienyl)(phosphorous acid)iron trimethyl ester, 8Cl
 [31811-48-0]



X = Cl, R = OMe

M 322.508

Unstable liq.

Brown, D.A. *et al*, *Inorg. Chim. Acta*, 1970, **4**, 428 (*synth, ir*)**C₁₀H₁₆FeIO₄P****Fe-00641**

Carbonyliodo[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](trimethyl phosphite-P)iron
Carbonyliodo(methyl- π -cyclopentadienyl)(phosphorous acid)iron trimethyl ester, 8Cl
 [31811-44-6]

As Carbonylchloro[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](trimethyl phosphite)iron, Fe-00640 with

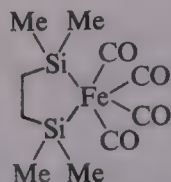
X = I, R = OMe

M 413.959

Mp 44-6°.

Brown, D.A. *et al*, *Inorg. Chim. Acta*, 1970, **4**, 428 (*synth, ir*)**C₁₀H₁₆FeO₄Si₂****Fe-00642**

Tetracarbonyl[1,2-ethanediylbis(dimethylsilylene)]iron, 10Cl
Tetracarbonyl(2,2,5,5-tetramethyl-2,5-disilaferrocyclopentane)
 [43198-13-6]



M 312.252

Waxy yellow air-sensitive solid, dec. slowly on standing.

Mp 58-60°. Bp 25° subl. *in vacuo*.Vancea, L. *et al*, *Inorg. Chem.*, 1974, **13**, 511 (*synth, pmr, cmr, ir*)Johnson, D.L. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 6433.**C₁₀H₁₇FeOP****Fe-00643**

Carbonyl(η^5 -2,4-cyclopentadien-1-yl)methyl(trimethylphosphine)iron, 10Cl
 [72415-00-0]

As Bromocarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trimethylphosphine)iron, Fe-00455 with

X = Me

M 240.064

Yellow-brown air-sensitive cryst. (pentane). Mp 45°.

Bp_{0.03} 50-60° subl.Alt, H.G. *et al*, *Z. Naturforsch., B*, 1979, **34**, 1070 (*synth, ir, pmr*)Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1981, **206**, 77 (*synth*)**C₁₀H₁₈FeGe₂O₄****Fe-00644****Tetracarbonylbis(trimethylgermyl)iron, 9Cl**

As Tetracarbonylbis(trichlorogermyl)iron, Fe-00033 with

X = Me

M 403.277

cis-form [58894-90-9]Colourless, v. air-sensitive cryst. by subl. *in vacuo*.Vancea, L. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 1407 (*cmr*)Bonny, A. *et al*, *J. Organomet. Chem.*, 1978, **144**, 389 (*synth, ir, pmr, ms*)**C₁₀H₁₈FeO₄Si₂****Fe-00645****Tetracarbonylbis(trimethylsilyl)iron, 9Cl**

[53248-31-0]

As Tetracarbonylbis(trichlorosilyl)iron, Fe-00034 with

X = Me

M 314.268

cis-form [53248-31-0]

Coarse colourless needles. Sol. heptane. Mp 68-68.5°.

Bp_{0.01} 35° subl. Reacts rapidly at r.t. with THF forming a deep-red soln. Stable in air for short periods.Jetz, W. *et al*, *J. Organomet. Chem.*, 1974, **69**, 383 (*synth*)Vancea, L. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 1407 (*cmr*)Pomeroy, R.K. *et al*, *Inorg. Chem.*, 1977, **16**, 1508 (*synth, nmr, stereochem*)Johnson, D.L. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 6433 (*use*)Blakeney, A.J. *et al*, *Inorg. Chem.*, 1981, **20**, 4415 (*synth, ir, pmr*)**C₁₀H₁₈FeO₄Sn₂****Fe-00646****Tetracarbonylbis(trimethylstannyl)iron, 9Cl**

[15376-93-9]

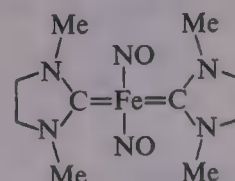
As Tetracarbonylbis(trichlorostannyl)iron, Fe-00035 with

X = Me

M 495.477

cis-form [18372-97-9]Colourless cryst. melting to orange-yellow liq., rapidly oxidised by air. Mp ca. 8°. Disproportionates at 140° to SnMe₄ and [(OC)₄FeSnMe₂]₂.Cotton, J.D. *et al*, *J. Chem. Soc. (A)*, 1967, 264 (*synth*)Kahn, O. *et al*, *J. Organomet. Chem.*, 1967, **10**, 137 (*synth*)Harris, D.H. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 311 (*nmr*)Vancea, L. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 1407 (*cmr*)Pomeroy, R.K. *et al*, *Inorg. Chem.*, 1977, **16**, 1508 (*synth, nmr, stereochem*)**C₁₀H₂₀FeN₆O₂****Fe-00647****Bis(1,3-dimethyl-2-imidazolidinylidene)dinitrosyliron, 10Cl**

[66985-37-3]



M 312.154

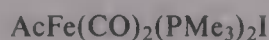
Bright-purple cryst. (CH₂Cl₂/Et₂O). Mp 234°.

Lappert, M.F. *et al*, *J. Chem. Soc., Dalton Trans.*, 1977, 2172
(*synth*, *pmr*, *ir*, *cmr*)

C₁₀H₂₁FeIO₃P₂

Fe-00648

Acetyldicarbonyl*di*bis(trimethylphosphine)iron, 8Cl
[33542-06-2]



M 433.973

Dark-orange cryst. (hexane), fairly air-stable. Sol. polar and nonpolar solvs.

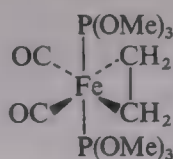
Pankowski, M. *et al*, *J. Organomet. Chem.*, 1971, **30**, 227
(*synth*, *ir*)

Carducci, G. *et al*, *CA*, 1981, **95**, 97971 (*synth*)

C₁₀H₂₂FeO₈P₂

Fe-00649

Dicarbonyl(η²-ethene)*bis*(trimethyl phosphite-*P*)iron, 10Cl
Dicarbonyl(ethylene)*bis*(trimethyl phosphite)iron
[79110-72-8]



M 388.074

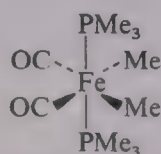
Needles (pet. ether). Mp 53-4°.

Berke, H. *et al*, *Chem. Ber.*, 1981, **114**, 2754 (*synth*, *ir*, *pmr*, *nmr*, *ms*, *cmr*)

C₁₀H₂₄FeO₂P₂

Fe-00650

Dicarbonyldimethyl*bis*(trimethylphosphine)iron, 9Cl
[57358-31-3]



M 294.093

Colourless prisms. Sol. common org. solvs., insol. H₂O.
Nonelectrolyte in PhNO₂. Subl. at 40° *in vacuo*.

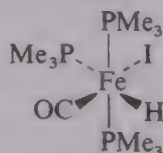
Pankowski, M. *et al*, *J. Organomet. Chem.*, 1975, **97**, 105
(*synth*, *ir*, *pmr*)

Pankowski, M. *et al*, *J. Organomet. Chem.*, 1981, **221**, C21
(*synth*)

C₁₀H₂₈FeIOP₃

Fe-00651

Carbonylhydroiodotris(trimethylphosphine)iron, 9Cl
[60733-48-4]



M 440.003

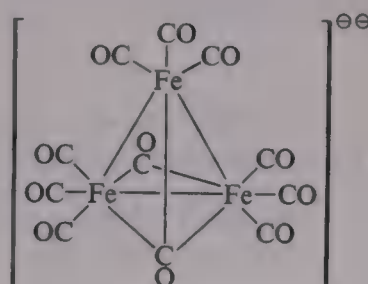
Light-brown cryst. (hexane).

Pankowski, M. *et al*, *J. Organomet. Chem.*, 1975, **97**, 105
(*synth*, *ir*, *pmr*)

C₁₁Fe₃O₁₁[−]

Fe-00652

Di-μ₃-carbonylnonacarbonyltriferrate(2-), 9Cl, 8Cl
Undecacarbonyltriferrate(2-), 8Cl
[25463-34-7]



M 475.655 (ion)

Diamagnetic.

Bis(tetraethylammonium) salt: [75070-23-4].

C₂₇H₄₀Fe₃N₂O₁₁ M 736.161

Dark-brown pentagonal plates (THF/toluene).

Bis(tetraphenylarsonium) salt: [75070-24-5].

C₅₉H₄₀As₂Fe₃O₁₁ M 1242.343

Brown needles (Me₂CO/2-propanol).

Bis[*bis*(triphenylphosphine)iminium] salt: [66039-65-4]. Air-sensitive shiny red-brown cryst. Sol. CH₂Cl₂, insol. Et₂O.

Shriver, D.F. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 1594 (*synth*)
Inorg. Synth., 1980, **20**, 222 (*synth*, *ir*)

Lo, F.Y.-K. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 7691 (*synth*, *struct*, *bibl*, *ir*, *cmr*)

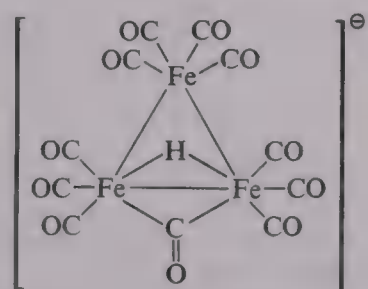
Tilley, T.D. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 1772 (*struct*)

Babin, V.N. *et al*, *J. Organomet. Chem.*, 1983, **241**, C41 (*synth*)

C₁₁HFe₃O₁₁[−]

Fe-00653

μ-Carbonyldecacarbonyl-μ-hydrotriferrate(1-), 9Cl, 8Cl
Undecacarbonylhydrotriferrate(1-), 9Cl, 8Cl
[55188-22-2]



M 476.663 (ion)

Tetraethylammonium salt: [55976-22-2].

C₁₉H₂₁Fe₃NO₁₁ M 606.916

Red cryst. (MeOH).

Bis(triphenylphosphine)iminium salt: [23254-21-9].

C₄₇H₃₁Fe₃NO₁₁P₂ M 1015.251

Air-sensitive shiny dark-red plates (MeOH aq.). Sol. CH₂Cl₂, THF, Et₂O, insol. H₂O.

Dahl, L.F. *et al*, *Inorg. Chem.*, 1965, **4**, 1373 (*cryst struct*)

Boldrino, G.P. *et al*, *J. Organomet. Chem.*, 1979, **171**, 85 (*synth*)

Forster, A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1974, 1042
(*cmr*)

Dawson, P.A. *et al*, *Inorg. Chem.*, 1980, **19**, 465 (*synth*, *esr*)

Inorg. Synth., 1980, **20**, 218 (*synth*, *ir*, *pmr*, *bibl*)

Hugues, F. *et al*, *J. Chem. Soc., Chem. Commun.*, 1980, 68
(*synth*)

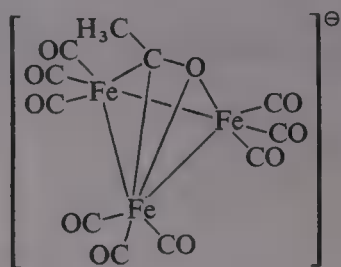
Manning, M.C. *et al*, *Inorg. Chim. Acta*, 1981, **50**, 247 (*synth*)

Alper, H. *et al*, *Organometallics*, 1982, **1**, 579 (*synth*)

Richmond, T.G. *et al*, *Organometallics*, 1982, **1**, 1624 (*synth*)

Keister, J.B. *et al*, *Organometallics*, 1983, **2**, 219 (*cmr*, *ir*)

C₁₁H₃Fe₃O₁₀[−] **Fe-00654**
[μ₃-[(C-η: C, O-η)-Acetyl-O]]nonacarbonyltriferrate(1−), 10Cl



M 462.680 (ion)

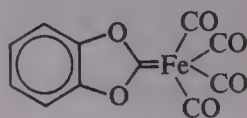
Tetraethylammonium salt: [78777-39-6].

C₁₉H₂₃Fe₃NO₁₀ M 592.932

Red microcryst. (THF/Et₂O). Mp >320°.

Wong, W.-K. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 2496
(*synth*, *struct*, *ir*, *pmr*, *cmr*)

C₁₁H₄FeO₆ **Fe-00655**
1,3-Benzodioxol-2-ylidenetetracarbonyliron, 10Cl
[67126-22-1]

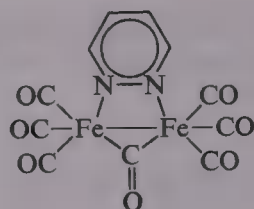


M 287.996

Bright-yellow air-sensitive cryst. (pet. ether). Mp 51°.

Pfiz, R. *et al*, *J. Organomet. Chem.*, 1978, **152**, C32 (*synth*,
pmr, *ir*, *ms*)

C₁₁H₄Fe₂N₂O₇ **Fe-00656**
μ-Carbonylhexacarbonyl[μ-(pyridazine-N²,N³)]diiron, 9Cl
[53855-85-9]

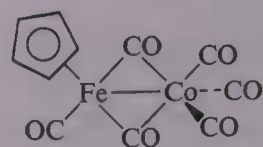


M 387.856

Red-violet cryst. Subl. at 70-80° *in vacuo*.

Herberhold, M. *et al*, *J. Organomet. Chem.*, 1974, **78**, 253
(*synth*, *ir*, *ms*, *pmr*)

C₁₁H₅CoFeO₆ **Fe-00657**
Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(tetracarbonylcobalt)-iron, 9Cl
Dicarbonyl-π-cyclopentadienyl(tetracarbonylcobaltio)iron. Cyclopentadienylirondicarbonyltetracarbonylcobalt. (η⁵-Cyclopentadienyl)dicarbonyliron-tetracarbonylcobalt. Hexacarbonyl(η⁵-cyclopentadienyl)-cobaltiron
[34778-25-1]



M 347.937

In soln. exists as a mixt. of CO bridged and non-bridged isomers. Red or brown cryst. (pentane). Mp 95-6°.

Joshi, K.K. *et al*, *Z. Naturforsch., B*, 1962, **17**, 565 (*synth*)

Manning, A.R., *J. Chem. Soc. (A)*, 1971, 2321 (*synth*, *ir*,
struct)

Campbell, I.L.C. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 22
(*cryst struct*)

Madach, T. *et al*, *Chem. Ber.*, 1980, **113**, 2675 (*pmr*, *ir*)

C₁₁H₅FeNO₄ **Fe-00658**
Tetracarbonyl(isocyanobenzene)iron, 9Cl
Tetracarbonyl(phenyl isocyanide)iron, 8Cl
[17595-21-0]

PhNCFe(CO)₄

M 271.012

Pale-yellow prisms (pentane) or plates (MeOH). Sol.
hydrocarbons, spar. sol. MeOH. Mp 54-6°, 60.5-61°.
Bp 50° subl. *in vacuo*.

Hieber, W. *et al*, *Chem. Ber.*, 1956, **89**, 193 (*synth*, *uv*)

Manuel, T.A., *Inorg. Chem.*, 1964, **3**, 1703 (*synth*, *ir*)

Becker, W.D. *et al*, *Z. Naturforsch., B*, 1970, **25**, 1332 (*nmr*)

Fehlhammer, W.P. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1975,
14, 369 (*synth*)

Furukawa, J. *et al*, *Bull. Chem. Soc. Jpn.*, 1976, **49**, 829 (*synth*)

C₁₁H₅FeO₅[−] **Fe-00659**
Benzoyltetracarbonylferrate(1−), 9Cl, 8Cl
[46753-55-3]

As Tetracarbonylhydroferrate(1−), Fe-00042 with

X = −COPh

M 273.005 (ion)

Tl(1+) salt: [55104-10-4].

C₁₁H₅FeO₅Tl M 477.388

Cryst. (CH₂Cl₂/hexane). Mp 105-8°.

Fischer, E.O. *et al*, *J. Organomet. Chem.*, 1969, **16**, P60 (*synth*,
ir)

Siegl, W.O. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 2516 (*synth*, *ir*)

Conder, H.L. *et al*, *Inorg. Chem.*, 1974, **13**, 506 (*synth*)

Pedersen, S.E. *et al*, *Inorg. Chem.*, 1975, **14**, 2365 (*synth*, *ir*)

Yamashita, M. *et al*, *Tetrahedron Lett.*, 1976, 1585 (*synth*,
bibl)

C₁₁H₆Cl₂FeO₅ **Fe-00660**
Tricarbonyl[(1,2,3,4-η)-1,2-bis(2-chloroacetyl)-1,3-cyclobutadiene]iron
Tricarbonyl[1,1'-[(1,2,3,4-η)-1,3-cyclobutadiene-1,2-diyl]bis[2-chloroethanone]]iron, 9Cl
[32965-36-9]

As Tricarbonyl(η⁴-1,2-diiodo-1,3-cyclobutadiene)iron,
Fe-00147 with

R = −COCH₂Cl

M 344.918

Yellow needles (hexane). Mp 115.5-117.5°.

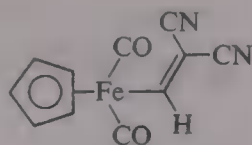
Berens, G. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 7076 (*synth*, *ir*,
pmr)

C₁₁H₆FeN₂O₂

Fe-00661

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(2,2-dicyanoethenyl)-iron, 9Cl

[36248-36-9]



M 254.028

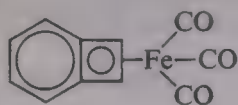
Yellow cryst. Mp 115-6°. Bp_{0.1} 100° subl.King, R.B. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 1784; 1973, **95**, 1811 (*synth*, *ir*, *pmr*)Gansow, O.A. *et al*, *Inorg. Nucl. Chem. Lett.*, 1974, **10**, 291 (*cmr*)Dekker, M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1967, 1243 (*synth*)Doedens, R.J. *et al*, *Inorg. Chem.*, 1969, **8**, 570 (*struct*)C₁₁H₆FeO₃

Fe-00662

[(1,6,7,8-η)-Bicyclo[4.2.0]octa-1,3,5,7-tetraene]tricarbonyliron, 9Cl

Benzocyclobutadiene(tricarbonyl)iron

[12093-06-0]



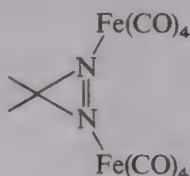
M 242.014

Orange prisms (pentane). Mp 25°. Bp_{0.1} 73-8°.Emerson, G.F. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 131 (*synth*, *ir*, *pmr*)Efraty, A. *et al*, *J. Organomet. Chem.*, 1975, **91**, 327 (*ms*)Harris, P.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 377 (*synth*, *ir*, *pmr*, *ms*)C₁₁H₆Fe₂N₂O₈

Fe-00663

Octacarbonyl[μ-(3,3-dimethyl-3H-diazirine-N¹,N²)]diiron, 9Cl

[56557-53-0]

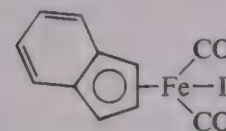


M 405.871

Unstable deep-blue plates (hexane). Mp 26-7°.

Albini, A. *et al*, *J. Organomet. Chem.*, 1975, **94**, 75 (*synth*, *ir*, *pmr*, *uv*)C₁₁H₇FeO₂

Fe-00667

Dicarbonyl[(1,2,3,3a,7a-η)-1H-inden-1-yl]iodoiron, 9Cl
(η⁵-Indenyl)dicarbonyliodoiron. Indenyliron dicarbonyl iodide
[36561-93-0]

M 353.927

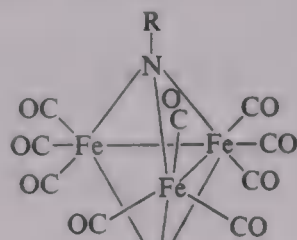
Mp 47-8°, 72-4°, 198°.

Hackett, P. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 1487 (*synth*, *ir*)Jones, D.J. *et al*, *Inorg. Chim. Acta*, 1972, **6**, 157 (*synth*, *ir*)Abel, E.W. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1706 (*synth*, *ir*)C₁₁H₆Fe₃N₂O₉

Fe-00664

Nonacarbonylbis[μ₃-[methanaminato(2-)]]triiron, 9Cl

[23389-07-3]



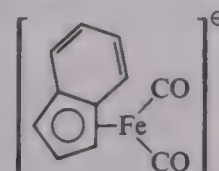
R = R' = Me

M 477.717

Purple cryst. (CH₂Cl₂/pet. ether).C₁₁H₇FeO₂[⊖]

Fe-00668

Dicarbonyl[(1,2,3,3a,7a-η)-1H-inden-1-yl]ferrate(1-), 9Cl



M 227.022 (ion)

Prepd. and used *in situ*.

Na salt: [52326-30-4].

C₁₁H₇FeNaO₂ M 250.012

No phys. props. reported.

Hallam, B.F. *et al*, *J. Chem. Soc.*, 1958, 646 (*synth*)

McArdle, P.A. *et al*, *J. Chem. Soc. (A)*, 1969, 1498 (*synth, ir*)

Faller, J.W. *et al*, *J. Organomet. Chem.*, 1974, **65**, 395 (*use*)

Gansow, O.A. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 5817 (*synth, cmr*)

C₁₁H₇FeO₄[−]

Fe-00669

Benzyltetracarbonylferrate(1−)

Tetracarbonyl(phenylmethyl)ferrate(1−), 9Cl

[46470-80-8]

As Tetracarbonylformylferrate(1−), Fe-00070 with

R = −CH₂Ph

M 259.021 (ion)

Generated and used *in situ* for PhCH₂COR *synth*.

Bis(triphenylphosphine)iminium salt: [36464-64-9].

C₄₇H₃₇FeNO₄P₂ M 797.608

No phys. props. reported.

Siegl, W.O. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 2516 (*synth, ir*)

Collman, J.P., *Acc. Chem. Res.*, 1975, **8**, 342 (*rev*)

C₁₁H₇Fe₃NO₉

Fe-00670

Nonacarbonyl[μ₃-(ethanaminato(2−))]di-μ-hydrotriiron, 10Cl

[64753-01-1]

As Nonacarbonyldi-μ-hydro-μ₃-thioxotriiron, Fe-00342 with

X = NEt

M 464.719

Characterised spectroscopically. N-Ph analogue also prepd.

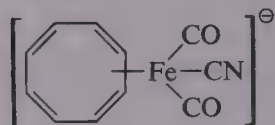
Andrews, M.A. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 6763 (*synth, pmr, ir, ms*)

C₁₁H₈FeNO₂[−]

Fe-00671

Dicarbonyl(cyano-C)[(1,2,3,4-η)-1,3,5,7-cyclooctatetraene]ferrate(1−), 9Cl

[73435-07-1]



M 242.037 (ion)

Fluxional in soln. Precursor of isonitrile complexes.

Na salt: [57481-98-8].

C₁₁H₈FeNNaO₂ M 265.026

Red-violet needles.

Behrens, H. *et al*, *Z. Anorg. Allg. Chem.*, 1975, **416**, 193 (*synth, pmr, ir*)

Moll, M. *et al*, *Z. Anorg. Allg. Chem.*, 1979, **458**, 202 (*pmr, cmr*)

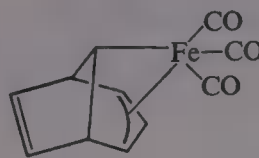
Behrens, H. *et al*, *J. Organomet. Chem.*, 1980, **192**, 389 (*use*)

C₁₁H₈FeO₃

Fe-00672

[(2,3,4,8-η)-Bicyclo[3.2.1]octa-3,6-diene-2,8-diyl]tricarbonyliron, 9Cl

[36465-33-5]



M 244.029

Air-sensitive yellow oil. Bp_{0.04} 30-5°.

Ehnholt, D. *et al*, *J. Organomet. Chem.*, 1973, **56**, 315 (*synth, pmr, ir, ms*)

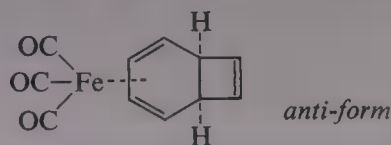
Aumann, R., *J. Organomet. Chem.*, 1974, **66**, C6 (*synth, ir, pmr, ms*)

C₁₁H₈FeO₃

Fe-00673

[(2,3,4,5-η)-Bicyclo[4.2.0]octa-2,4,7-triene]tricarbonyliron, 9Cl

[53729-97-8]



M 244.029

syn-form [52124-65-9]

No phys. props. reported.

anti-form [52154-52-6]

Golden-yellow oil. Mp 8°.

Fischer, E.O. *et al*, *Chem. Ber.*, 1959, **92**, 2645 (*synth, ir*)

Cooke, M. *et al*, *J. Organomet. Chem.*, 1974, **78**, C43 (*pmr*)

Sleiger, W. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 287 (*synth, pmr*)

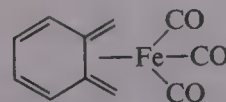
C₁₁H₈FeO₃

Fe-00674

[η⁴-5,6-Bis(methylene)-1,3-cyclohexadiene]tricarbonyliron, 9Cl

Tricarbonyl(5,6-dimethylene-1,3-cyclohexadiene)iron, 8Cl. (o-Quinodimethane)tricarbonyliron

[12181-95-2]



M 244.029

Yellow cryst. Mp 39°. Bp_{0.2} 73-6°.

Roth, W.R. *et al*, *Tetrahedron Lett.*, 1967, 2053 (*synth, pmr*)

Johnson, B.F.G. *et al*, *Tetrahedron Lett.*, 1974, 3789 (*synth*)

Boschi, T. *et al*, *J. Organomet. Chem.*, 1977, **133**, C36 (*cmr*)

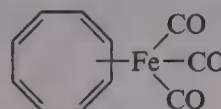
C₁₁H₈FeO₃

Fe-00675

Tricarbonyl[(1,2,3,4-η)-1,3,5,7-cyclooctatetraene]iron, 9Cl

(η⁴-Cyclooctatetraene)tricarbonyliron

[12093-05-9]



M 244.029

Deep-red needles (EtOH). Mp 92-93.5°. Sublimes at 50°/0.1 mm.

Manuel, T.A. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 366 (*synth*)

Dickens, B. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 4862 (*struct*)
 Davison, A. *et al*, *J. Chem. Soc.*, 1962, 4821 (*synth*)
 Fritz, H.P. *et al*, *Chem. Ber.*, 1962, **95**, 158 (*ir, uv*)
Organomet. Synth., 1965, **1**, 126 (*synth*)
Inorg. Synth., 1966, **8**, 184 (*synth*)
 King, R.B., *Appl. Spectrosc.*, 1969, **23**, 536; *CA*, **71**, 117665 (*ms*)
 Cotton, F.A. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 1413 (*cmr*)
 Behrens, H. *et al*, *J. Organomet. Chem.*, 1980, **192**, 389 (*pmr*)

C₁₁H₈FeO₃ Fe-00676

Tricarbonyl[(1,2,3,4- η)-1,2-divinyl-1,3-cyclobutadiene]iron
 Tricarbonyl[(1,2,3,4- η)-1,2-diethenyl-1,3-cyclobutadiene]iron, 9Cl
 [57515-23-8]

As Tricarbonyl(η^4 -1,2-diiodo-1,3-cyclobutadiene)iron,
 Fe-00147 with



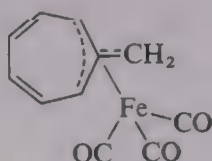
M 244.029

Sweet-smelling bright-yellow liq. Bp_{0.15} 25°. Unstable to heat and light.

Berens, G. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 7076 (*synth, ir, pmr*)

C₁₁H₈FeO₃ Fe-00677

Tricarbonyl[(1,6,7,1'- η)-7-methylene-1,3,5-cycloheptatriene]iron
 Tricarbonyl(1,6,7,8- η^4 -heptafulvene)
 [12559-94-3]



M 244.029

Red cryst. Mp 37-41°. Bp_{0.1} 40° subl.

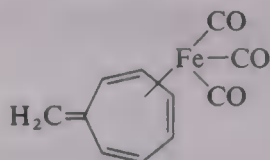
Ehnholt, D.J. *et al*, *J. Chem. Soc., Chem. Commun.*, 1970, 1451 (*synth, pmr, ir, ms*)

Howell, J.A.S. *et al*, *J. Organomet. Chem.*, 1972, **39**, 329 (*synth, pmr, ir*)

Churchill, M.R. *et al*, *Inorg. Chem.*, 1973, **12**, 525 (*struct*)

C₁₁H₈FeO₃ Fe-00678

Tricarbonyl[(1,2,3,4- η)-7-methylene-1,3,5-cycloheptatriene]iron, 10Cl
 Tricarbonyl(heptafulvene)iron
 [33506-46-6]



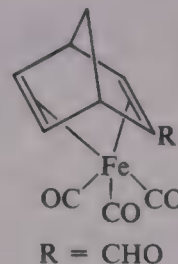
M 244.029

Yellow liq.

Rodeheaver, G.T. *et al*, *J. Organomet. Chem.*, 1971, **30**, C22 (*synth, pmr, ir, ms*)

C₁₁H₈FeO₄ Fe-00679

[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene-2-carboxaldehyde]tricarbonyliron, 10Cl
 (2-Formylnorbornadiene)tricarbonyliron
 [42183-78-8]



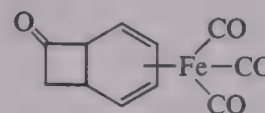
M 260.029

Orange oil.

Graf, R.E. *et al*, *J. Organomet. Chem.*, 1976, **122**, 377 (*synth, pmr, ir, ms*)

C₁₁H₈FeO₄ Fe-00680

[(2,3,4,5- η)-Bicyclo[4.2.0]octa-2,4-dien-7-one]tricarbonyliron, 9Cl
 [60196-57-8]



M 260.029

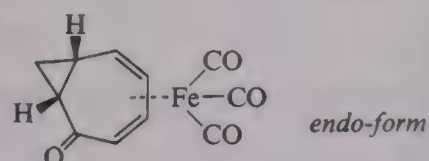
Pale-yellow cryst. (Et₂O/pentane). Mp 67-8°.

Brookhart, M. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 8155 (*synth, ir, pmr, cmr*)

Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 1874 (*synth, ir, pmr*)

C₁₁H₈FeO₄ Fe-00681

[(3,4,5,6- η)-Bicyclo[5.1.0]octa-3,5-dien-2-one]tricarbonyliron, 9Cl
 Homotroponeiron tricarbonyl
 [57407-41-7]



M 260.029

exo-form [68974-54-9]

Honey-yellow needles (C₆H₆/pet. ether). Mp 131-132.5°.

endo-form [68974-55-0]

Pale-yellow cryst. Mp 77°.

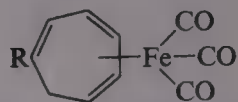
Holmes, J.D. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 2531 (*synth*)

Paquette, L.A. *et al*, *J. Am. Chem. Soc.*, 1967, **89**, 5634 (*synth*)

Franck-Neumann, M. *et al*, *Tetrahedron Lett.*, 1975, 1759 (*synth, pmr, cmr, ms, ir*)

C₁₁H₈FeO₄ Fe-00682**Tricarbonyl[(3,4,5,6-η)-1,3,5-cycloheptatriene-1-carboxaldehyde]iron, 9Cl***Tricarbonyl(1-formyl-1,3,5-cycloheptatriene)iron*

[36594-79-3]

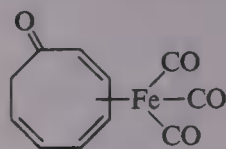


R = CHO

M 260.029

Orange-yellow solid (pet. ether). Mp 88-9°. Bp_{0.01} 70° subl.Maltz, H. *et al*, *J. Organomet. Chem.*, 1971, **27**, 383 (*synth*)Hunt, D.F. *et al*, *J. Organomet. Chem.*, 1972, **43**, 175 (*ms*)Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 456 (*synth*, *pmr*, *ir*)**C₁₁H₈FeO₄ Fe-00683****Tricarbonyl[(2,3,4,5-η)-2,4,6-cyclooctatrien-1-one]iron, 10Cl**

[61182-23-8]



M 260.029

Yellow needles or orange cryst. (pet. ether or pet. ether/Et₂O). Mp 103-4°.Brookhart, M.S. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 8155 (*synth*, *ir*, *pmr*)Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 1874 (*synth*, *pmr*, *ir*)**C₁₁H₈FeO₅ Fe-00684****Tricarbonyl(1,3,5-cycloheptatriene-1-carboxylic acid)iron**

As Tricarbonyl[(3,4,5,6-η)-1,3,5-cycloheptatriene-1-carboxaldehyde]iron, Fe-00682 with

R = COOH

M 276.028

Obt. from the unstable 7-isomer.

Me ester: [61812-28-0].C₁₂H₁₀FeO₅ M 290.055

No phys. props. reported.

Behrens, H. *et al*, *Z. Naturforsch., B*, 1976, **31**, 1021 (*synth*, *ir*)**C₁₁H₈FeO₅ Fe-00685****Tricarbonyl(1,2-diacetyl-1,3-cyclobutadiene)iron, 8Cl***Tricarbonyl[1,1'-(η⁴-1,3-cyclobutadiene-1,2-diyl)bis[ethanone]]iron, 9Cl*

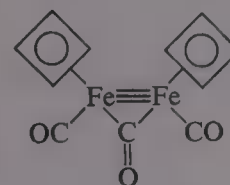
[32914-22-0]

As Tricarbonyl(η⁴-1,2-diiodo-1,3-cyclobutadiene)iron, Fe-00147 withR = —COCH₃

M 276.028

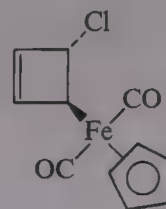
Yellow cryst. (Et₂O or hexane). Mp 122.5-124° (119°). Bp_{0.001} 60° subl.Roberts, B.W. *et al*, *J. Am. Chem. Soc.*, 1969, **91**, 6208.Schmidt, E.K.G., *Chem. Ber.*, 1974, **107**, 2440 (*synth*)Berens, G. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 7076 (*synth*, *ir*, *pmr*)**C₁₁H₈Fe₂O₃ Fe-00686****μ-Carbonyldicarbonylbis(η⁴-1,3-cyclobutadiene)diiron, 9Cl***Tricarbonylbis(1,3-cyclobutadiene)iron*

[53778-34-0]



M 299.876

Dark-red, air- and heat-sensitive cryst. (pentane).

Fischler, I. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1975, **14**, 54 (*synth*, *ir*, *pmr*, *cmr*, *ms*)**C₁₁H₉ClFeO₂ Fe-00687****Dicarbonyl(4-chloro-2-cyclobuten-1-yl)(η⁵-2,4-cyclopentadien-1-yl)iron, 9Cl**

M 264.491

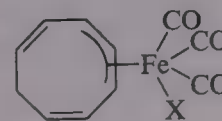
Precursor for cyclobutadiene generation.

trans-form [53436-97-8]

Yellow cryst. (pet. ether). Mp 65-7°.

Sanders, A. *et al*, *J. Organomet. Chem.*, 1976, **104**, 49, 67 (*synth*, *ir*, *pmr*, *use*)**C₁₁H₉ClFeO₃ Fe-00688****Tricarbonylchloro[(1,2,3-η)-2,4,7-cyclooctatrien-1-yl]iron, 10Cl**

[61127-37-5]



X = Cl

M 280.490

Pale-yellow needles (Et₂O).Charles, A.D. *et al*, *J. Organomet. Chem.*, 1976, **116**, C25 (*synth*, *ir*, *pmr*, *ms*)**C₁₁H₉FeIO₃ Fe-00689****Tricarbonyl[(1,2,3-η)-2,4,7-cyclooctatrien-1-yl]iodoiron**

[57431-29-5]

As Tricarbonylchloro[(1,2,3-η)-2,4,7-cyclooctatrien-1-yl]iron, Fe-00688 with

X = I

M 371.942

Black cryst. (pentane). Mp 82°.

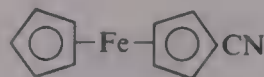
Aumann, R., *J. Organomet. Chem.*, 1974, **78**, C31 (*synth*, *ir*, *pmr*, *ms*)

Charles, A.D. *et al*, *J. Organomet. Chem.*, 1976, **116**, C25
(*synth*, *ir*)

C₁₁H₉FeN**Fe-00690****Cyanoferrocene, 9Cl**

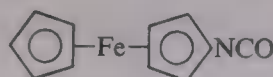
Ferrocenecarbonitrile, 8Cl. *Ferrocenyl cyanide*.
Ferrocenonitrile

[1273-84-3]



M 211.046

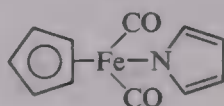
Golden-yellow plates (heptane). Mp 107-8°.

Broadhead, G.D. *et al*, *J. Chem. Soc.*, 1958, 650 (*synth*, *ir*)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk. SSSR*, 1958, **121**, 117 (*synth*)Nesmeyanov, A.N. *et al*, *Chem. Ber.*, 1960, **93**, 2729 (*synth*)Reed, R.I. *et al*, *Appl. Spectrosc.*, 1963, **7**, 124; *CA*, **59**, 14700 (*ms*)Nesmeyanov, A.N. *et al*, *Zh. Strukt. Khim.*, 1973, **14**, 49 (*cmr*)**C₁₁H₉FeNO****Fe-00691****Isocyanatoferrocene**(Cyanato-N)ferrocene. *Ferrocenyl isocyanate*

M 227.045

Mp 36-9°. Bp_{0.1} 70-80°.Schlögl, K. *et al*, *Naturwissenschaften*, 1958, **45**, 337 (*synth*, *uv*, *ir*)**C₁₁H₉FeNO₂****Fe-00692****Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(η¹-1-pyrrolyl)iron**

[12108-96-2]



M 243.045

Brown cryst. (Et₂O). Mp 91°. Bp_{0.01} 60-70° subl.Pauson, P.L. *et al*, *J. Organomet. Chem.*, 1967, **7**, 321 (*synth*, *pmr*, *ir*)**C₁₁H₉FeNO₃****Fe-00693****Dicarbonylnitrosyl[(1,2,3-η)-1-phenyl-2-propenyl]iron, 10Cl**

[54309-97-6]

As Dicarbonyl(η³-1-chloro-2-propenyl)nitrosyliron, Fe-00075 with

X = Ph

M 259.044

Characterised spectroscopically.

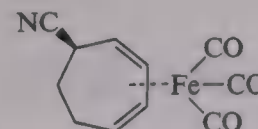
Cardaci, G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 1808 (*synth*, *ir*)**C₁₁H₉FeNO₃****Fe-00694****Tricarbonyl[(1,4,5,6-η)-7-cyano-5-cycloheptene-1,4-diyl]iron**

M 259.044

Not separated from Tricarbonyl[(2,3,4,5-η)-2,4-cycloheptadiene-1-carbonitrile]iron, Fe-00695.

Edwards, R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 2105 (*synth*)**C₁₁H₉FeNO₃****Fe-00695****Tricarbonyl[(2,3,4,5-η)-2,4-cycloheptadiene-1-carbonitrile]iron**

[12108-97-3]



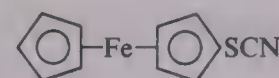
M 259.044

exo-form

Unstable yellow oil. Not separated from Tricarbonyl[(1,4,5,6-η)-7-cyano-5-cycloheptene-1,4-diyl]iron, Fe-00694.

Hashmi, M.A. *et al*, *J. Chem. Soc. (A)*, 1967, 240 (*synth*, *ir*)Edwards, R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 2105 (*synth*)**C₁₁H₉FeNS****Fe-00696****Thiocyanatoferrocene, 9Cl***Thiocyanic acid ferrocenyl ester*, 8Cl. *Ferrocenyl thiocyanate*

[1293-80-7]

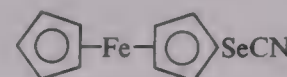


M 243.106

Yellow leaflets (pet. ether). Mp 104°. Hydrol. to 1,1'-Dithiobisferrocene, Fe-01670.

Nefedov, V.A. *et al*, *Zh. Obshch. Khim.*, 1966, **36**, 122 (*synth*)Knox, G.R. *et al*, *J. Chem. Soc. (C)*, 1967, 1842 (*synth*, *ir*)Nesmeyanov, A.N. *et al*, *Zh. Strukt. Khim.*, 1973, **14**, 49 (*cmr*)**C₁₁H₉FeNSe****Fe-00697****Selenocyanatoferrocene, 9Cl***Selenocyanic acid ferrocenyl ester*, 8Cl. *Ferrocenyl selenocyanate*

[58463-80-2]

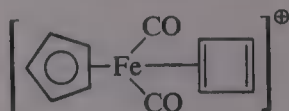


M 290.006

Yellow cryst. (C₆H₆/pet. ether). Mp 124-5°.Nefedov, V.A., *Zh. Obshch. Khim.*, 1968, **38**, 2191 (*synth*, *ir*)Shu, P. *et al*, *J. Org. Chem.*, 1976, **41**, 1849 (*synth*, *pmr*, *ir*, *ms*)

C₁₁H₉FeO₂⁺

Fe-00698

Dicarbonyl[(1,2- η)-1,3-cyclobutadiene](η^5 -2,4-cyclopentadien-1-yl)iron(1+), ⁹Cl

M 229.038 (ion)

A convenient highly reactive source of cyclobutadiene.
Generated and used *in situ*.

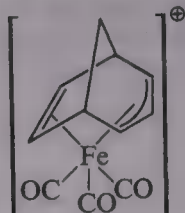
Hexafluorophosphate: [55451-33-7].

C₁₁H₉F₆FeO₂P M 374.002

No phys. props. reported.

Sanders, A. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 919; *J. Organomet. Chem.*, 1976, **104**, 49 (*synth, use*)C₁₁H₉FeO₃⁺

Fe-00699

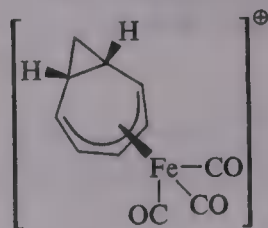
[(2,3,4,6,7- η)-Bicyclo[3.2.1]octa-3,6-diene-2,8-diyl]tricarbonyliron(1+)
[(2,3,4,6,7- η)-Bicyclo[3.2.1]octa-3,6-dien-2-yl]tricarbonyliron(1+), ⁹Cl

M 245.037 (ion)

Tetrafluoroborate: [51949-90-7].

C₁₁H₉BF₄FeO₃ M 331.841Fine yellow needles (CH₂Cl₂). Dec. >175°.Margulis, T.N. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 3269 (*synth, ir, uv, struct*)C₁₁H₉FeO₃⁺

Fe-00700

[(2,3,4,5,6- η)-Bicyclo[5.1.0]octa-3,5-dien-2-yl]tricarbonyliron(1+), ⁹Cl
 π -Bicyclo[5.1.0]octadienylumtricarbonyliron(1+)
[41853-19-4]

M 245.037 (ion)

Bright yellow.

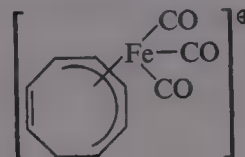
Tetrafluoroborate: [58465-89-7].

C₁₁H₉BF₄FeO₃ M 331.841

Bright-yellow cryst. Mp 180° dec.

Davison, A. *et al*, *J. Chem. Soc.*, 1962, 4821 (*synth, ir, pmr*)Brookhart, M. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 7622; 1972, **94**, 7853 (*pmr*)Aumann, R. *et al*, *Chem. Ber.*, 1976, **109**, 174 (*derivs, ir, pmr*)Olah, G.A. *et al*, *J. Org. Chem.*, 1976, **41**, 2383 (*cmr*)C₁₁H₉FeO₃⁺

Fe-00701

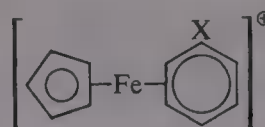
Tricarbonyl[(1,2,3,4,5- η)-2,4,6-cyclooctatrien-1-yl]iron(1+), ⁹Cl
Tricarbonyl- π -cyclooctatrienylumiron(1+)
[32824-75-2]

M 245.037 (ion)

Generated in soln. at -123°. At temp. >-60° ring closure to 92755-x occurs.

Brookhart, M. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 7853 (*pmr*)Olah, G.A. *et al*, *J. Org. Chem.*, 1977, **42**, 4262 (*cmr*)C₁₁H₁₀BrFe⁺

Fe-00702

(η^6 -Bromobenzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+)

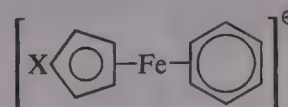
X = Br

M 277.951 (ion)

Tetrafluoroborate:

C₁₁H₁₀BBBrF₄Fe M 364.755Yellow solid (Me₂CO/Et₂O). Mp 167-9° dec.Khand, I.U. *et al*, *J. Chem. Soc. (C)*, 1968, 2261 (*synth, pmr*)C₁₁H₁₀ClFe⁺

Fe-00703

(η^6 -Benzene)(η^5 -1-chloro-2,4-cyclopentadien-1-yl)iron(1+), ⁹Cl

X = Cl

M 233.500 (ion)

Tetrafluoroborate: [12282-27-8].

C₁₁H₁₀BClF₄Fe M 320.304

Mp 172-7° dec.

Hexafluorophosphate: [12282-28-9].

C₁₁H₁₀ClF₆FeP M 378.464

Mp 185-95° dec., 208-18° dec.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1967, **176**, 106 (*synth*)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1969, **184**, 358 (*ir*)Turta, K.I. *et al*, *CA*, 1972, **76**, 19852 (*mössbauer*)C₁₁H₁₀ClFe⁺

Fe-00704

(η^6 -Chlorobenzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+), ⁹Cl
[32965-46-1]As (η^6 -Bromobenzene)(η^5 -2,4-cyclopentadien-1-yl)-iron(1+), Fe-00702 with

X = Cl

M 233.500 (ion)

Tetrafluoroborate: [12153-13-8].

C₁₁H₁₀BClF₄Fe M 320.304Yellow cryst. (Me₂CO/Et₂O). Mp 217-8° dec.

Hexafluorophosphate: [33086-63-4].

C₁₁H₁₀ClF₆FeP M 378.464Yellow cryst. (MeOH aq.). Sol. H₂O. Mp 224-6°.Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1966, **166**, 607 (*synth*)Khand, I.U. *et al*, *J. Chem. Soc. (C)*, 1968, 2261 (*synth, pmr*)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1969, **184**, 358 (*ir*)Turta, K.I. *et al*, *CA*, 1972, **76**, 19852 (*mössbauer*)Morrison, W.H. *et al*, *Inorg. Chem.*, 1975, **14**, 500 (*uv, mössbauer*)Steele, B.R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 529 (*cmr*)C₁₁H₁₀FFe⁺

Fe-00705

(η⁵-2,4-Cyclopentadien-1-yl)(η⁶-fluorobenzene)iron(1+), 9ClAs (η⁶-Bromobenzene)(η⁵-2,4-cyclopentadien-1-yl)-iron(1+), Fe-00702 with

X = F

M 217.045 (ion)

Hexafluorophosphate: [32879-17-7].

C₁₁H₁₀F₇FeP M 362.010Yellow solid (Me₂CO/Et₂O). Mp 200-30° dec.Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1969, 1524 (*synth*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1970, **22**, 689 (*synth*)Turta, K.I. *et al*, *CA*, 1972, **76**, 19852 (*mössbauer*)Steele, B.R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 529 (*cmr*)Michaud, P. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 3755.C₁₁H₁₀FeNO₂⁺

Fe-00706

(η⁵-2,4-Cyclopentadien-1-yl)(η⁶-nitrobenzene)iron(1+), 10Cl

[61827-25-6]

As (η⁶-Bromobenzene)(η⁵-2,4-cyclopentadien-1-yl)-iron(1+), Fe-00702 withX = NO₂

M 244.053 (ion)

Hexafluorophosphate: [77486-94-3].

C₁₁H₁₀F₆FeNO₂P M 389.017

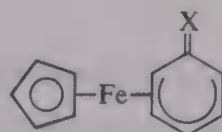
Phys. props. not reported.

Steele, B.R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 529 (*cmr*)C₁₁H₁₀FeO

Fe-00707

(η⁵-2,4-Cyclopentadien-1-yl)((1,2,3,4,5-η)-6-oxo-2,4-cyclohexadien-1-yl)iron, 10Cl[(1,2,3,4,5-η)-Cyclohexadien-6-onyl](η⁵-cyclopentadienyl)iron

[70124-47-9]



X = O

M 214.046

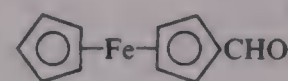
Orange powder (Et₂O/CH₂Cl₂). Mp 112-4° dec.Helling, J.F. *et al*, *J. Organomet. Chem.*, 1979, **168**, 87 (*synth, pmr, ir, ms*)C₁₁H₁₀FeO

Fe-00708

Ferrocenecarboxaldehyde

Formylferrocene, 9Cl. Ferrocenealdehyde

[12093-10-6]



M 214.046

Red plates (pet. ether). Mp 123.5°. Bp 30-40° subl. *in vacuo*. Possesses plastic crystalline phase between 44° and Mp.

Oxime, α-form: [12261-28-8].

C₁₁H₁₁FeNO M 229.061

Copper-coloured plates (ligroin). Mp 96-9°.

Oxime, β-form: Orange prisms (C₆H₆). Mp 155-7°.

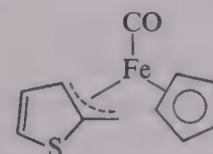
Semicarbazone: Orange flakes (EtOH). Mp 217-9° dec.

Broadhead, G.D. *et al*, *J. Chem. Soc.*, 1958, 650 (*synth*)Pauson, P.L. *et al*, *J. Chem. Soc.*, 1962, 3880 (*synth*)Zakharin, L.I. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1964, 926; *CA*, **61**, 5505 (*synth*)Org. Reactions, 1969, **17**, 1 (*synth*)Perjessy, A. *et al*, *Chem. Zvesti*, 1969, **23**, 533; *CA*, **72**, 78112 (*ir*)Kamezawa, N., *J. Magn. Reson.*, 1973, **11**, 88 (*pmr*)Daniel, M.F. *et al*, *J. Chem. Soc., Faraday Trans. 2*, 1978, **74**, 456; 1981, **77**, 1837 (*cryst struct*)Senda, Y. *et al*, *Bull. Chem. Soc. Jpn.*, 1980, **53**, 3381 (*cmr*)C₁₁H₁₀FeOS

Fe-00709

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)((2,3,6-η)-3-methylenethiophene)iron

Carbonyl-π-cyclopentadienyl-π-3-thienyliron, 8Cl



M 246.106

Air-sensitive red cryst. (pet. ether).

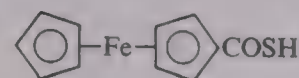
King, R.B. *et al*, *Inorg. Chem.*, 1969, **8**, 2535 (*synth, ir, ms*)C₁₁H₁₀FeOS

Fe-00710

(Thiocarboxy)ferrocene, 10Cl

Ferrocenethiocarbonic acid

[63118-81-0]



M 246.106

Purple. Mp 46-7°.

Trimethylammonium salt:

C₁₄H₁₉FeNOS M 305.217

Orange-yellow solid. Mp 81-3°.

Piperidinium salt: [63179-44-2].

C₁₆H₂₁FeNOS M 331.255Orange-yellow needles (CH₂Cl₂/hexane). Mp 120-1°.

Me ester: [12146-70-2]. [(Methylthio)carbonyl]ferrocene.

C₁₂H₁₂FeOS M 260.133

Orange-yellow cryst. (hexane). Mp 42-3°.

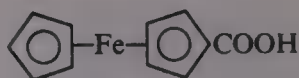
Katada, T. *et al*, *J. Organomet. Chem.*, 1977, **129**, 189 (*synth, derivs, uv, ir*)

C₁₁H₁₀FeO₂

Ferrocenecarboxylic acid

Carboxyferrocene, 9Cl

[1271-42-7]



M 230.046

Used in iron fertilisers and as vinyl polymn. catalyst.

Yellow cryst. (pet. ether). Mp 225-30° dec.

Me ester: [1271-56-3].

C₁₂H₁₂FeO₂ M 244.073

Yellow cryst. (MeOH aq.). Mp 70-1°.

Chloride: (Chlorocarbonyl)ferrocene, 9Cl.

Ferrocenoylchloride.

C₁₁H₉ClFeO M 248.492

Deep-red cryst. (pentane). Mp 50-1° (49°).

Amide: see Ferrocenecarboxamide, Fe-00736

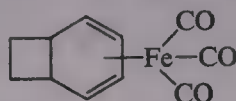
Nitrile: see Cyanoferrocene, Fe-00690

Benkeser, R.A. *et al*, *J. Am. Chem. Soc.*, 1954, **76**, 4025 (*synth*)Lau, H.H. *et al*, *J. Org. Chem.*, 1959, **24**, 280 (*chloride*)Pauson, P.L. *et al*, *J. Chem. Soc.*, 1963, 2990 (*chloride*)Slocum, D.W. *et al*, *J. Chem. Eng. Data*, 1968, **13**, 378 (*pmr*)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci.**Khim.*, 1974, **215**, 599 (*cmr*)Ito, T. *et al*, *Nippon Kagaku Kaishi*, 1976, 353 (*synth*)Schmitt, G. *et al*, *J. Org. Chem.*, 1976, **41**, 3331 (*synth*)*Org. Synth.*, 1977, **56**, 28 (*synth*)C₁₁H₁₀FeO₃

Fe-00712

[(2,3,4,5- η)-Bicyclo[4.2.0]octa-2,4-diene]tricarbonyliron, 9Cl

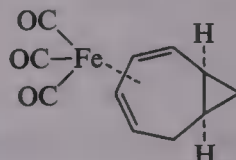
[31975-68-5]



M 246.045

Yellow-orange oil. Bp_{0.1} 60-70°.Fischer, E.D. *et al*, *Chem. Ber.*, 1959, **92**, 2645 (*synth*)Manuel, T.A. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 366 (*synth*)Burton, R. *et al*, *J. Chem. Soc.*, 1961, 594 (*pmr*)Brookhart, M. *et al*, *J. Organomet. Chem.*, 1973, **54**, 247 (*synth*)Graham, C.R. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 1180.Bockmeulen, H.A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981,262 (*synth*, *pmr*, *ms*, *ir*)C₁₁H₁₀FeO₃

Fe-00713

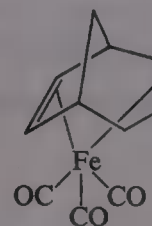
[(2,3,4,5- η)-Bicyclo[5.1.0]octa-2,4-diene]tricarbonyliron

M 246.045

Orange cryst. (pentane). Mp 39° (36.5°).

Aumann, R. *et al*, *Chem. Ber.*, 1976, **109**, 174 (*synth*, *ir*, *ms*, *pmr*, *cmr*)C₁₁H₁₀FeO₃

Fe-00714

[(2,3,6,7- η)-Bicyclo[3.2.1]octa-3,6-diene]tricarbonyliron, 9Cl

M 246.045

Pale-yellow plates (MeOH). Mp 30-1°.

Margulis, T.N. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 3269 (*synth*, *ir*, *uv*)C₁₁H₁₀FeO₃

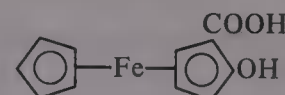
Fe-00715

2-Hydroxy-1-ferrocenecarboxylic acid

1-Carboxy-2-hydroxyferrocene, 9Cl

[60084-99-3]

M 246.045

Dark-red cryst. (Et₂O/pet. ether). Mp 160° dec.

Me ester: [67078-00-6]. 1-Hydroxy-2-(methoxycarbonyl)ferrocene, 10Cl. Methyl 2-hydroxyferrocenecarboxylate.

C₁₂H₁₂FeO₃ M 260.072Orange cryst. (Et₂O/pet. ether). Mp 46°.

Me ether, Me ester: [60321-21-3]. 1-Methoxy-2-(methoxycarbonyl)ferrocene, 10Cl. Methyl 2-methoxyferrocenecarboxylate.

C₁₃H₁₄FeO₃ M 274.099

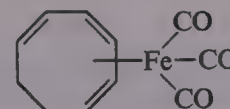
Orange cryst. (pet. ether). Mp 39°.

Epton, R. *et al*, *J. Organomet. Chem.*, 1978, **150**, 93 (*synth*, *pmr*)C₁₁H₁₀FeO₃

Fe-00716

Tricarbonyl[(1,2,3,4- η)-1,3,5-cyclooctatriene]iron, 9Cl

[53922-85-3]



M 246.045

Viscous orange oil. At 100° isom. to [(2,3,4,5- η)-Bicyclo[4.2.0]octa-2,4-diene]tricarbonyliron, Fe-00712.McFarlane, W. *et al*, *J. Chem. Soc.*, 1963, 2162 (*ir*, *pmr*)Brookhart, M. *et al*, *J. Organomet. Chem.*, 1973, **54**, 247 (*synth*)Henis, N.B. *et al*, *Inorg. Chim. Acta*, 1981, **54**, L11 (*ms*)C₁₁H₁₀FeO₄

Fe-00717

Tricarbonyl(1-acetyl-1,3-cyclohexadiene)iron

Tricarbonyl[1-[(1,2,3,4- η)-1,3-cyclohexadien-1-yl]ethanone]iron, 9Cl. Tricarbonyl($\Delta^{1,3}$ -dihydroacetophenone)iron

[53556-09-5]

As Tricarbonyl[(1,2,3,4- η)-1-chloro-1,3-cyclohexadiene]iron, Fe-00363 withR = COCH₃

M 262.045

Yellow plates (pentane). Mp 26-7°. Bp_{0.025} 98°.

Semicarbazone: Mp 193-7° dec.

Jablonski, C.R. *et al*, *Can. J. Chem.*, 1974, **52**, 2085 (*synth*, *pmr*, *ir*)Nametkin, N.S. *et al*, *J. Organomet. Chem.*, 1976, **107**, 377 (*synth*, *pmr*, *ir*)C₁₁H₁₀FeO₄

Fe-00718

Tricarbonyl(5-acetyl-1,3-cyclohexadiene)iron

Tricarbonyl[1-[(2,3,4,5- η)-2,4-cyclohexadien-1-yl]ethanone]iron, 9Cl

[56235-39-3]

As Tricarbonyl[(1,2,3,4- η)-5-chloro-1,3-cyclohexadiene]iron, Fe-00365 with

M 262.045

exo-form [65391-21-1]

Yellow oil.

endo-form [65337-60-2]

Yellow oil.

Nametkin, N.S. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1975, 2067 (*synth*)Johnson, B.F.G. *et al*, *J. Organomet. Chem.*, 1977, **141**, 319; 1978, **150**, 115 (*synth*, *pmr*, *cmr*, *ir*)C₁₁H₁₀FeO₄

Fe-00719

Tricarbonyl[(3,4,5,6- η)-1,3,5-cycloheptatriene-1-methanol]iron, 9Cl

Tricarbonyl(1-hydroxymethyl-1,3,5-cycloheptatriene)iron

[36594-86-2]

As Tricarbonyl[(3,4,5,6- η)-1,3,5-cycloheptatriene-1-carboxaldehyde]iron, Fe-00682 with

M 262.045

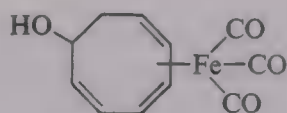
Yellow solid. Bp_{0.05} 80° subl.Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 456 (*synth*, *pmr*, *ir*)C₁₁H₁₀FeO₄

Fe-00720

Tricarbonyl[(4,5,6,7- η)-2,4,6-cyclooctatrien-1-ol]iron, 9Cl

Tricarbonyl(7-hydroxy-1,3,5-cyclooctatriene)iron

[56551-48-5]

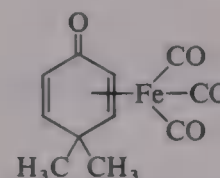


M 262.045

Unstable yellow oil.

Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 567 (*synth*, *ms*, *pmr*)C₁₁H₁₀FeO₄

Fe-00722

Tricarbonyl[(2,3,5,6- η)-4,4-dimethyl-2,5-cyclohexadien-1-one]iron

M 262.045

Yellow oil. Bp_{0.1} 42-6°.Alper, H.T. *et al*, *J. Organomet. Chem.*, 1969, **16**, 342 (*synth*, *ir*, *uv*, *pmr*)C₁₁H₁₀FeO₄

Fe-00721

Tricarbonyl[(2,3,4,5- η)-6,6-dimethyl-2,4-cyclohexadien-1-one]iron, 9Cl

[59172-33-7]

M 262.045

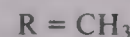
Orange oil.

Whitesides, T.H. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 63 (*synth*, *pmr*, *ir*)C₁₁H₁₀FeO₄

Fe-00723

Tricarbonyl[(2,3,4,5- η)-2,7-dimethyloxepin]iron, 9Cl

[12276-28-7]

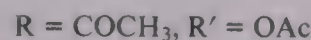
As Tricarbonyl[(2,3,4,5- η)-oxepin]iron, Fe-00356 with

M 262.045

Fluxional. Orange rhombic cryst. (pentane). Mp 46°.

Aumann, R. *et al*, *Chem. Ber.*, 1975, **108**, 3336 (*synth*, *ir*, *pmr*, *ms*)C₁₁H₁₀FeO₆

Fe-00724

[(3,4,5,6- η)-6-(Acetyloxy)-3,5-hexadien-2-one]tricarbonyliron, 9ClAs Tricarbonyl[(2,3,4,5- η)-2,4-hexadienedial]iron, Fe-00358 with

M 294.043

syn,syn-form [53770-24-4]Yellow cryst. (C₆H₆/hexane). Mp 68-9°.*syn-OAc-anti-Ac-form* [54053-98-4]Yellow cryst. (Et₂O/hexane). Mp 95.5-96.5°.DePuy, C.H. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 4070 (*synth*, *pmr*, *ir*, *ms*)C₁₁H₁₀FeS

Fe-00725

(η^5 -2,4-Cyclopentadien-1-yl)(1,2,3,4,5- η)-6-thioxo-2,4-cyclohexadien-1-yl]iron, 10Cl[(1,2,3,4,5- η)-Cyclohexadien-6-thionyl](η^5 -cyclopentadienyl)iron

[70124-21-9]

As (η^5 -2,4-Cyclopentadien-1-yl)(1,2,3,4,5- η)-6-oxo-2,4-cyclohexadien-1-yl]iron, Fe-00707 with

M 230.107

Red-orange solid (Et₂O/CH₂Cl₂). Mp 183° dec.Helling, J.F. *et al*, *J. Organomet. Chem.*, 1979, **168**, 87 (*synth*, *pmr*, *ir*, *ms*)

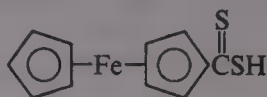
C₁₁H₁₀FeS₂

Fe-00726

(Dithiocarboxy)ferrocene, 9Cl

Ferrocenedithiocarbonic acid. Ferrocenedithiocarboxylic acid

[54633-81-7]



M 262.167

Blue-black granular cryst. Mp 75-6°.

Piperidinium salt: Reddish-purple cryst. Mod. sol.CHCl₃, Me₂CO, EtOH. Mp 125-6°. Remained unchanged in atm. for 5 days.*Diethylammonium salt*:C₁₅H₂₁FeNS₂ M 335.305Reddish-purple cryst. Mod. sol. CHCl₃, Me₂CO, EtOH. Mp 113-5°. Remained unchanged in atm. for 5 days.*Cu salt*: [54633-93-1]. Purple cryst. Sl. sol. most org. solvs.Shinzi, K. *et al*, *J. Organomet. Chem.*, 1974, **78**, 405 (*synth*, *ir*, *uv*, *pmr*)Bereman, R.D. *et al*, *J. Inorg. Nucl. Chem.*, 1981, **43**, 519 (*synth*, *uv*, *esr*)C₁₁H₁₁ClFe

Fe-00730

[(1,2,3,4,5- η)-2-Chloro-2,4-cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron

M 234.508

Orange cryst. (pet. ether). Mp 71-2°.

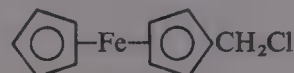
Khand, I.U. *et al*, *J. Chem. Soc. (C)*, 1968, 2261 (*synth*, *pmr*)C₁₁H₁₁ClFe

Fe-00731

(Chloromethyl)ferrocene, 9Cl

Ferrocenylmethyl chloride

[12093-15-1]



M 234.508

Unstable yellow-orange cryst.

Schlöggl, K., *Monatsh. Chem.*, 1957, **88**, 601 (*synth*)Tidwell, T.T. *et al*, *J. Am. Chem. Soc.*, 1966, **88**, 3442 (*synth*)Pannell, K.H. *et al*, *Org. Mass Spectrom.*, 1975, **10**, 550 (*ms*)Tverdokhlebov, V.P. *et al*, *Zh. Org. Khim.*, 1978, **14**, 1056; 1980, **16**, 46 (*synth*)C₁₁H₁₁ClFe

Fe-00732

1-Chloro-2-methylferrocene, 9Cl

[31852-03-6]

M 234.508

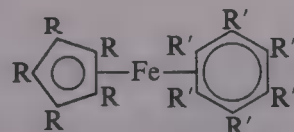
Yellow cryst. (hexane). Mp 53-4°.

Slocum, D.W. *et al*, *J. Organomet. Chem.*, 1972, **38**, 125; 1974, **72**, 227 (*synth*, *pmr*, *ms*)Slocum, D.W. *et al*, *J. Chem. Soc., Chem. Commun.*, 1974, 967.C₁₁H₁₁Fe

Fe-00733

(η^6 -Benzene)(η^5 -2,4-cyclopentadien-1-yl)iron, 9Cl

[51812-05-6]



R = R' = H

M 199.055

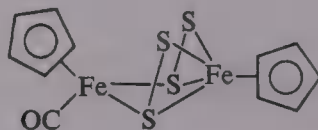
Paramagnetic 19-electron complex. Air and temp. sensitive dark-green cryst. with metallic lustre (pentane).

Slowly dimerises to [μ -[(2,3,4,5,6- η :2',3',4',5',6'- η)-[bi-3,5-cyclohexadien-1-yl]-2,2'-diyl-]]bis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01770.Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1973, **61**, 329.Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1974, **217**, 104 (*synth*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1977, **136**, 363 (*synth*)Solodovnikov, S.P. *et al*, *J. Organomet. Chem.*, 1979, **182**, 239 (*esr*)Mariot, J.P. *et al*, *CA*, 1980, **92**, 138172 (*mössbauer*)El Murr, N., *J. Chem. Soc., Chem. Commun.*, 1981, 281 (*synth*)Solodovnikov, S.P. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1981, **258**, 415 (*uv*)C₁₁H₁₀Fe₂OS₄

Fe-00727

Carbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(dithio-S:S,S')diiron, 10Cl

[75071-60-2]

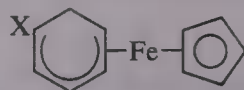


M 398.133

Green cryst. (MeOH).

Chanaud, H. *et al*, *J. Organomet. Chem.*, 1980, **190**, 201 (*synth*, *pmr*, *ir*, *ms*, *struct*)C₁₁H₁₁BrFe

Fe-00728

[(1,2,3,4,5- η)-1-Bromo-2,4-cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron

X = Br

M 278.959

Orange cryst. (pet. ether). Mp 98°.

Khand, I.U. *et al*, *J. Chem. Soc. (C)*, 1968, 2261 (*synth*, *pmr*)C₁₁H₁₁ClFe

Fe-00729

[(1,2,3,4,5- η)-1-Chloro-2,4-cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)ironAs [(1,2,3,4,5- η)-1-Bromo-2,4-cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00728 with

X = Cl

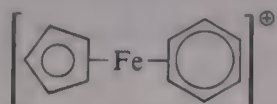
M 234.508

Orange cryst. (pet. ether). Mp 89-91°.

Khand, I.U. *et al*, *J. Chem. Soc. (C)*, 1968, 2261 (*synth*, *pmr*)

C₁₁H₁₁Fe⁺**Fe-00734****(η^5 -2,4-cyclopentadien-1-yl)iron(1+), 9Cl***Cyclopentadienylbenzeneiron(1+)*

[51364-24-0]



M 199.055 (ion)

*Chloride:*C₁₁H₁₁ClFe M 234.508Yellow solid (ppt. from conc. HCl with H₂O). Sol.Me₂CO, THF, insol. H₂O.*Hexafluorophosphate:* [12176-31-7].C₁₁H₁₁F₆FeP M 344.019

Yellow cryst. Mp 200° dec.

Iodide: [12129-39-4].C₁₁H₁₁FeI M 325.959

Yellow cryst. Mp 230-230.5°.

Tetrafluoroborate: [1277-51-6].C₁₁H₁₁BF₄Fe M 285.859

Yellow cryst.

Tetraphenylborate: [55053-63-9].C₃₅H₃₁BFe M 518.287

Yellow cryst. Mp 250-1°.

Green, M.L.H. *et al*, *J. Chem. Soc.*, 1960, 989 (*synth*)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk. SSSR*, 1963, **149**, 615 (*synth*)King, R.B., *Organometallic Synthesis*, 1965, Academic Press, **1**, 138.Pavlik, I. *et al*, *Collect. Czech. Chem. Commun.*, 1966, **31**, 4412 (*ir*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1970, **22**, 689 (*pmr*)Astruc, D. *et al*, *Bull. Soc. Chim. Fr.*, 1975, 2571 (*pmr*, *synth*)Solodovnikov, S.P. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1981, **258**, 415 (*uv*)Steele, B.R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 529 (*cmr*)**C₁₁H₁₁FeN****Fe-00735****(η^5 -2,4-Cyclopentadien-1-yl)(1,2,3,4,5- η -6-imino-2,4-cyclohexadien-1-yl)iron, 10Cl**[(1,2,3,4,5- η)-6-Iminocyclohexadienyl](η^5 -cyclopentadienyl)iron

[70124-46-8]

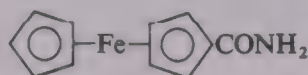
As (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-6-oxo-2,4-cyclohexadien-1-yl]iron, Fe-00707 with

X = NH

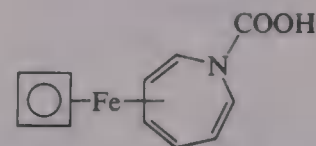
M 213.062

Red solid (Et₂O/CH₂Cl₂). Mp 140-6° dec.Helling, J.F. *et al*, *J. Organomet. Chem.*, 1979, **168**, 87 (*synth*, *pmr*, *ir*, *ms*)**C₁₁H₁₁FeNO****Fe-00736****Ferrocenecarboxamide***(Aminocarbonyl)ferrocene*, 9Cl

[1287-17-8]



M 229.061

Yellow needles (C₆H₆/MeOH). Mp 167-9°.Arimoto, F.S. *et al*, *J. Am. Chem. Soc.*, 1955, **77**, 6295 (*synth*)Schlölgl, K., *Monatsh. Chem.*, 1957, **88**, 601 (*synth*)Gubin, S.P. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1967, 1149 (*uv*)Nesmeyanov, A.N. *et al*, *Zh. Strukt. Khim.*, 1973, **14**, 49 (*cmr*)**C₁₁H₁₁FeNO₂****Fe-00737****[(2,3,4,5- η)-1H-Azepine-1-carboxylic acid](η^4 -1,3-cyclobutadiene)iron**

M 245.060

Et ester: [32698-90-1].C₁₃H₁₅FeNO₂ M 273.114

Orange cryst. Mp ~130° dec.

Pettit, R. *et al*, *J. Am. Chem. Soc.*, 1971, **93**, 262 (*synth*, *struct*, *pmr*)**C₁₁H₁₁FeNO₂****Fe-00738****Dicarbonyl(cyano-C)(1,2,3,4,5- η)-2,4-cyclooctadien-1-yl]iron, 10Cl**

[78223-13-9]

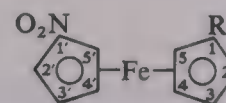
As Dicarbonyl[(1,2,3,4,5- η)-2,4-cyclooctadien-1-yl]iodoiron, Fe-00597 with

X = CN

M 245.060

Schiavon, G. *et al*, *J. Organomet. Chem.*, 1981, **210**, 247 (*synth*, *ir*)**C₁₁H₁₁FeNO₂****Fe-00739****1-Methyl-1'-nitroferrocene, 8Cl**

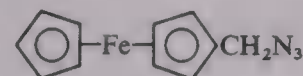
[12109-11-4]

R = CH₃

M 245.060

Violet cryst. (pet. ether/C₆H₆). Mp 110.5-111.5°.Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1966, 1938 (*synth*, *ir*)**C₁₁H₁₁FeN₃****Fe-00740****(Azidomethyl)ferrocene, 10Cl, 8Cl***Ferrocenylmethyl azide*

[31870-70-9]



M 241.075

Orange solid (hexane). Mp 32-4°.

Bublitz, D.E., *J. Organomet. Chem.*, 1970, **23**, 225 (*synth*, *ir*, *pmr*)Boev, V.I., *Zh. Obshch. Khim.*, 1978, **48**, 1594 (*synth*)**C₁₁H₁₁FeO⁺****Fe-00741****(η^5 -2,4-Cyclopentadien-1-yl)(η^6 -phenol)iron(1+), 10Cl** η^6 -Phenol- η^5 -cyclopentadienyliron(1+)As (η^6 -Bromobenzene)(η^5 -2,4-cyclopentadien-1-yl)-iron(1+), Fe-00702 with

X = OH

M 215.054 (ion)

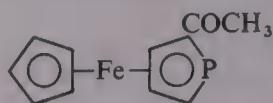
Hexafluorophosphate: [70124-43-5].

C₁₁H₁₁F₆FeOP M 360.018Fine yellow powder (CH₂Cl₂/Et₂O). Mp 204-6° dec.*Me ether*: [32758-64-8]. (η⁵-2,4-Cyclopentadien-1-yl)-(η⁶-methoxybenzene)iron(1+). (η⁶-Anisole)(η⁵-2,4-cyclopentadien-1-yl)iron(1+).C₁₂H₁₃FeO⁺ M 229.081 (ion)

Obt. as iodide.

Me ether, iodide:C₁₂H₁₃FeIO M 355.986Orange cryst. (Me₂CO/Et₂O). Dec. at 143-6°.Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1967, **175**, 606 (*synth, deriv*)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1969, **184**, 358.Turta, K.I. *et al*, *CA*, 1972, **76**, 19852 (*mössbauer*)Helling, J.F. *et al*, *J. Organomet. Chem.*, 1979, **168**, 87 (*synth, ir, pmr*)Steele, B.R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 529 (*cmr*)**C₁₁H₁₁FeOP****Fe-00742****[(1,2,3,4,5-η)-2-Acetyl-1H-phosphol-1-yl](η⁵-2,4-cyclopentadien-1-yl)iron**(η⁵-2,4-Cyclopentadien-1-yl)[1-(η⁵-1H-phosphol-2-yl)ethanonato]iron, 10Cl. 2-Acetylphosphaferrocene

[64815-26-5]

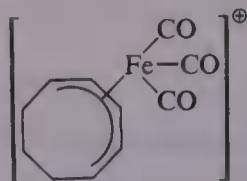


M 246.028

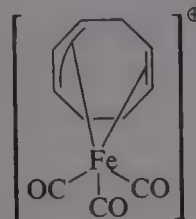
Obt. as an inseparable mixt. with [(1,2,3,4,5-η)-3-Acetyl-1H-phosphol-1-yl](η⁵-2,4-cyclopentadien-1-yl)iron, Fe-00743 (15%).Mathey, F., *J. Organomet. Chem.*, 1977, **139**, 77 (*synth, ir, ms, pmr*)**C₁₁H₁₁FeOP****Fe-00743****[(1,2,3,4,5-η)-3-Acetyl-1H-phosphol-1-yl](η⁵-2,4-cyclopentadien-1-yl)iron**(η⁵-2,4-Cyclopentadien-1-yl)[1-(η⁵-1H-phosphol-3-yl)ethanonato]iron, 10Cl. 3-Acetylphosphaferrocene

[64815-27-6]

M 246.028

Obt. as an inseparable mixt. with [(1,2,3,4,5-η)-2-Acetyl-1H-phosphol-1-yl](η⁵-2,4-cyclopentadien-1-yl)iron, Fe-00742 (85%).Mathey, F., *J. Organomet. Chem.*, 1977, **139**, 77 (*synth, ir, ms, pmr*)**C₁₁H₁₁FeO₃⁺****Fe-00744****Tricarbonyl[(1,2,3,4,5-η)-2,4-cyclooctadien-1-yl]iron(1+), 9Cl**
[54835-01-7]

M 247.053 (ion)

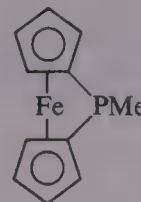
Tetrafluoroborate: [55729-63-0].C₁₁H₁₁BF₄FeO₃ M 333.857Pale-yellow solid (CH₂Cl₂/Et₂O). Mp 120° dec.McFarlane, W. *et al*, *J. Chem. Soc.*, 1963, 2162 (*synth, ir, pmr*)Deeming, A.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 2093 (*synth, ir, pmr*)**C₁₁H₁₁FeO₃⁺****Fe-00745****Tricarbonyl[(1,2,3,5,6-η)-2,5-cyclooctadien-1-yl]iron(1+), 9Cl**
[55729-64-1]

M 247.053 (ion)

Tetrafluoroborate: [55729-65-2].C₁₁H₁₁BF₄FeO₃ M 333.857Pale-yellow solid (CH₂Cl₂/Et₂O).Deeming, A.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 2093 (*synth, ir, pmr*)**C₁₁H₁₁FeP****Fe-00746****1,1'-(Methylphosphinidene)ferrocene, 10Cl**

1,1'-(Methylphosphine)diylferrocene. 1-Methyl-1-phospha[1]ferrocenophane

[72954-07-5]



M 230.029

Air-sensitive brick-red flakes (hexane). Mp 70-2° dec.

Seyferth, D. *et al*, *Organometallics*, 1982, **1**, 1275 (*synth, ir, uv, pmr, cmr, ms*)**C₁₁H₁₁FeS⁺****Fe-00747****(η⁶-Benzenethiol)(η⁵-2,4-cyclopentadien-1-yl)iron(1+), 10Cl**η⁶-Thiophenol-η⁵-cyclopentadienyliron(1+)As (η⁶-Bromobenzene)(η⁵-2,4-cyclopentadien-1-yl)-iron(1+), Fe-00702 with

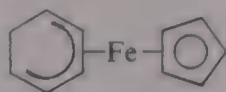
X = SH

M 231.115 (ion)

Hexafluorophosphate: [70124-45-7].C₁₁H₁₁F₆FePS M 376.079Olive-green solid (CH₂Cl₂/Et₂O). Dec. at 236-8°.Helling, J.F. *et al*, *J. Organomet. Chem.*, 1979, **168**, 87 (*synth, ir, pmr*)

C₁₁H₁₂Fe **Fe-00748**

[(1,2,3,4,5- η)-2,4-Cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, 9Cl
[39529-31-2]



M 200.063

Orange-red cryst. Mp 135-6°. Fairly stable in air.

Green, M.L.H. *et al*, *J. Chem. Soc.*, 1960, 989 (*synth*)

Jones, D. *et al*, *J. Chem. Soc.*, 1962, 4458 (*ir*, *pmr*)

Nesmeyanov, A.N. *et al*, *Koord. Khim.*, 1975, **1**, 550; *CA*, **83**, 88063 (*ir*, *pmr*)

Ittel, S.D., *J. Organomet. Chem.*, 1980, **195**, 331 (*synth*)

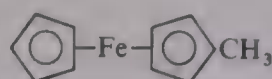
Koridze, A.A. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1980, **255**, 117 (*cmr*, *nmr*)

Beard, L.K. *et al*, *J. Organomet. Chem.*, 1981, **209**, 245 (*synth*, *ir*, *pmr*)

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1981, **210**, 103 (*synth*, *pmr*)

C₁₁H₁₂Fe **Fe-00749**

Methylferrocene, 9Cl
(π -Cyclopentadienyl)(π -methylcyclopentadienyl)iron
[1271-44-9]



M 200.063

Yellow to dark-orange flakes. Mp 38.5-39°. Bp_{0.4} 86°.

Osgerby, J.M. *et al*, *J. Chem. Soc.*, 1961, 4604 (*synth*)

Sakai, K. *et al*, *Bull. Chem. Soc. Jpn.*, 1968, **41**, 1902 (*synth*)

Rausch, M.D. *et al*, *J. Organomet. Chem.*, 1969, **17**, 117 (*pmr*)

Materikova, R.B. *et al*, *J. Organomet. Chem.*, 1977, **142**, 81 (*ir*, *cmr*)

C₁₁H₁₂FeN⁺ **Fe-00750**

(η^5 -1-Amino-2,4-cyclopentadien-1-yl)(η^6 -benzene)iron(1+), 9Cl
[51150-06-2]

As (η^6 -Benzene)(η^5 -1-chloro-2,4-cyclopentadien-1-yl)-iron(1+), Fe-00703 with

X = NH₂

M 214.070 (ion)

pK_a 0.20 (tetrafluoroborate).

Tetrafluoroborate: [12282-29-0].

C₁₁H₁₂BF₄FeN M 300.873

Mp 186-8° dec.

Hexafluorophosphate:

C₁₁H₁₂F₆FeNP M 359.034

Mp 210-7° dec.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1967, **176**, 106; 1968, **183**, 606 (*synth*, *derivs*)

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1968, 2416.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1969, **184**, 358 (*ir*)

Turta, K.I. *et al*, *CA*, 1972, **76**, 19852 (*mössbauer*)

C₁₁H₁₂FeN⁺ **Fe-00751**

(η^6 -Aniline)(η^5 -2,4-cyclopentadien-1-yl)iron(1+)
(η^6 -Benzeneamine)(η^5 -2,4-cyclopentadien-1-yl)-iron(1+), 9Cl

[51150-08-4]

As (η^6 -Bromobenzene)(η^5 -2,4-cyclopentadien-1-yl)-iron(1+), Fe-00702 with

X = NH₂

M 214.070 (ion)

pK_a -1.07 as tetrafluoroborate.

Hexafluorophosphate: [35640-39-2].

C₁₁H₁₂F₆FeNP M 359.034

Yellow cryst. (Me₂CO/Et₂O). Mp 242° dec., 250° dec.

Tetrafluoroborate: [35640-45-0].

C₁₁H₁₂BF₄FeN M 300.873

Yellow solid (Me₂CO/Et₂O). Mp 193.5-195° dec.

N,N-Di-Me: See (η^5 -2,4-Cyclopentadien-1-yl)(N,N-dimethylaniline)iron(1+), Fe-01099

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1967, **175**, 606 (*synth*)

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1968, 2416.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1969, **184**, 358 (*ir*)

Turta, K.I. *et al*, *CA*, 1972, **76**, 19852 (*mössbauer*)

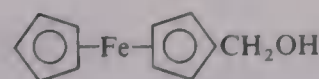
Helling, J.F. *et al*, *J. Organomet. Chem.*, 1979, **168**, 87 (*synth*, *ir*, *pmr*)

Steele, B.R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 529 (*cmr*)

C₁₁H₁₂FeO **Fe-00752**

Ferrocenemethanol

Hydroxymethylferrocene, 10Cl, 9Cl. Ferrocenylmethanol
[1273-86-5]



M 216.062

Golden needles (hexane). Sol. hot H₂O. Mp 81-2°.

Benzoyl: [12300-31-1].

C₁₈H₁₆FeO₂ M 320.170

Yellow needles (2,2,4-trimethylpentane). Mp 130-2°.

Glucoside: see [(β -D-Glucopyranosyloxy)methyl]-ferrocene, Fe-01501

Me ether: see (Methoxymethyl)ferrocene, Fe-00944

Broadhead, G.D. *et al*, *J. Chem. Soc.*, 1958, 650 (*synth*)

Paul, J. *et al*, *Monatsh. Chem.*, 1972, **103**, 243 (*pmr*)

Org. Synth., Coll. Vol., **5**, 1973, 621 (*synth*)

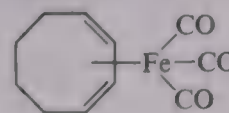
Hanaya, K. *et al*, *CA*, 1975, **83**, 205660 (*ir*)

Tverdokhlebov, V.P. *et al*, *Zh. Org. Khim.*, 1976, **12**, 2512 (*uv*)

Koridze, A.A. *et al*, *J. Organomet. Chem.*, 1977, **136**, 57 (*cmr*)

C₁₁H₁₂FeO₃ **Fe-00753**

Tricarbonyl[(1,2,3,4- η)-1,3-cyclooctadiene]iron, 9Cl
[33270-50-7]



M 248.061

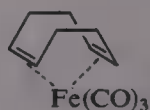
Yellow needles (pentane). Mp 36°.

Koerner von Gustorf, E. *et al*, *Tetrahedron Lett.*, 1968, **28**, 3191 (*synth*)

Deeming, A.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 2093 (*synth*, *pmr*, *ir*)

C₁₁H₁₂FeO₃

Tricarbonyl(1,2,5,6- η)-1,5-cyclooctadieneiron, 9Cl
1,5-Cyclooctadienetricarbonyliron
[12093-20-8]



M 248.061

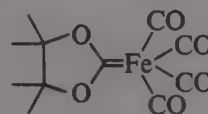
Orange-yellow cryst. (pentane). Mp 76°, 90-5°.

Koerner von Gustorf, E., *Tetrahedron Lett.*, 1968, 3191 (*synth*, *ir*, *pmr*)Deeming, A.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 2093 (*synth*, *pmr*)Kruczynski, L. *et al*, *Inorg. Chem.*, 1976, **15**, 3140 (*cmr*)

Fe-00754

C₁₁H₁₂FeO₆

Tetracarbonyl(4,4,5,5-tetramethyl-1,3-dioxolan-2-ylidene)-iron, 10Cl
[54854-43-2]



M 296.059

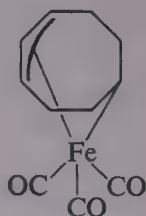
Mp 142° dec.

Daub, J. *et al*, *J. Organomet. Chem.*, 1974, **80**, C5 (*synth*, *ir*, *pmr*, *cmr*, *ms*)Böhm, M.C. *et al*, *Chem. Ber.*, 1980, **113**, 3629 (*pe*, *struct*)

Fe-00758

C₁₁H₁₂FeO₃

Tricarbonyl[(1,4,5,6- η)-5-cyclooctene-1,4-diyl]iron, 9Cl
Tricarbonyl(4,6- η , 1- σ -cyclooctenediyl)iron
[42086-39-5]



M 248.061

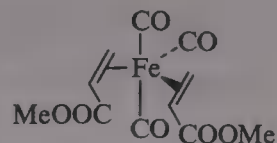
Green-yellow cryst. Mp 105°.

Deeming, A.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 2093 (*synth*, *pmr*, *ir*)Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 241 (*props*)

Fe-00755

C₁₁H₁₂FeO₇

Tricarbonylbis[(2,3- η)-methyl-2-propenoate]iron, 9Cl
Tricarbonylbis(methyl acrylate)iron
[56323-91-2]



M 312.059

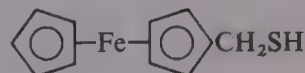
Shows rotational isomerism, one isomer crystallised at low temp. Thermally labile pale-yellow cryst. (hexane at -78°). Isomerises at 0°.

Grevels, F.W. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1974, **13**, 534 (*synth*, *ir*, *pmr*, *ms*)

Fe-00759

C₁₁H₁₂FeS

(Mercaptomethyl)ferrocene, 10Cl
Ferrocenemethanethiol. Cyclopentadienyl[(mercaptomethyl)cyclopentadienyl]iron. (Ferrocenylmethyl)-mercaptan
[12153-30-9]



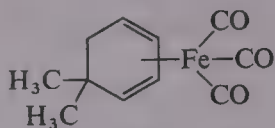
M 232.123

Orange cryst. (pet. ether/C₆H₆). Insol. H₂O. Mp 65°, 128-31°. Subl. unchanged *in vacuo*.Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1965, 1696 (*synth*, *ir*)Ratajczak, A. *et al*, *Pol. J. Chem.*, 1980, **54**, 241 (*synth*)

Fe-00760

C₁₁H₁₂FeO₃

Tricarbonyl[(1,2,3,4- η)-5,5-dimethyl-1,3-cyclohexadiene]iron, 9Cl
[32732-61-9]



M 248.061

Yellow oil.

Whitesides, T.H. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 63 (*synth*, *pmr*, *ms*)

Fe-00756

C₁₁H₁₂FeO₃

Tricarbonyl[(1,2,3,4- η)-1,2,3,4-tetramethyl-1,3-cyclobutadiene]iron, 9Cl
[12245-09-9]

As Tricarbonyl(η^4 -1,2,3,4-tetraiodo-1,3-cyclobutadiene)-iron, Fe-00145 withR = CH₃

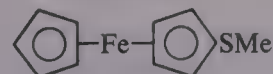
M 248.061

Lemon-yellow cryst. Mp 28-9°. Bp_{0.1} 43°.Brune, H.A. *et al*, *J. Organomet. Chem.*, 1968, **12**, 485 (*synth*, *ir*, *pmr*)Brune, H.A. *et al*, *Z. Naturforsch., B*, 1968, **23**, 1184 (*nmr*)Brune, H.A. *et al*, *Z. Naturforsch., B*, 1971, **26**, 68 (*ir*)

Fe-00757

C₁₁H₁₂FeS

(Methylthio)ferrocene, 8Cl
(Cyclopentadienyl)(methylthiocyclopentadienyl)iron.
Ferrocenyl methyl sulfide
[1293-85-2]



M 232.123

Foul-smelling orange-red liq. Mp 16°. Bp_{0.1} 97.5-98°.

S,S-Dioxide: [1293-84-1]. Methylsulfonylferrocene.

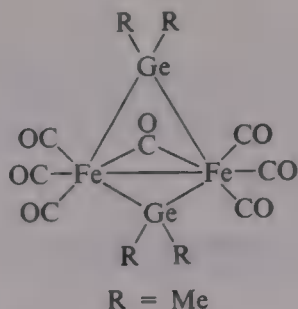
Ferrocenyl methyl sulfone.

C₁₁H₁₂FeSO₂ M 264.122Orange cryst. (C₆H₆). Mp 73-4°.Knox, G.R. *et al*, *J. Chem. Soc.*, 1958, 692 (*synth*)Knox, G.R. *et al*, *Chem. Ind. (London)*, 1959, 1046 (*pmr*)Nefedov, V.A. *et al*, *Zh. Obshch. Khim.*, 1966, **36**, 122 (*synth*, *dioxide*)

Fe-00761

Kursanov, D.N. *et al.*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1972, **207**, 111 (pmr)

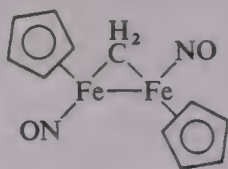
C₁₁H₁₂Fe₂Ge₂O₇ **Fe-00762**
 μ -Carbonylhexacarbonylbis[μ -(dimethylgermylene)]diiron,
 10Cl
Heptacarbonylbis(dimethylgermylene)diiron
 [68110-92-9]



M 513.086
 Yellow or red unstable cryst.

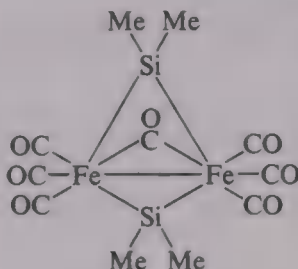
Bonny, A. *et al.*, *J. Chem. Soc., Dalton Trans.*, 1978, 722 (synth, pmr, ir, ms)

C₁₁H₁₂Fe₂N₂O₂ **Fe-00763**
 Bis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylenedinitrosyldiiron,
 10Cl
 [77681-74-4]



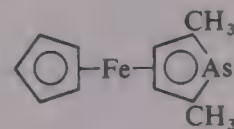
M 315.922
 Brown-black air-stable needles (pentane). Mp 98° dec.
 Herrmann, W.A. *et al.*, *J. Organomet. Chem.*, 1981, **204**, C21 (synth, pmr, ir, ms)

C₁₁H₁₂Fe₂O₇Si₂ **Fe-00764**
 μ -Carbonylhexacarbonylbis[μ -(dimethylsilylene)]diiron, 8Cl
Heptacarbonylbis(dimethylsilylene)diiron
 [32491-57-9]



M 424.077
 Orange air-sensitive cryst. (pet. ether). Mp 154-154.5°.
 Kummer, D. *et al.*, *Z. Naturforsch., B*, 1971, **26**, 162 (synth, ir, pmr, ms)
 Schmid, G. *et al.*, *Z. Naturforsch., B*, 1979, **34**, 929 (synth, ir, ms)

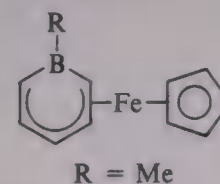
C₁₁H₁₃AsFe **Fe-00765**
 (η^5 -2,4-Cyclopentadien-1-yl)(1,2,3,4,5- η)-2,5-dimethyl-1H-arsol-1-yl]iron, 10Cl
2,5-Dimethylarsaferrocene
 [70114-44-2]



M 275.992
 Orange cryst. (MeOH). Mp 70°.

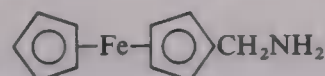
Thiollet, G. *et al.*, *Inorg. Chim. Acta*, 1979, **32**, L67 (synth, pmr, cmr, ms)

C₁₁H₁₃BFe **Fe-00766**
 (η^5 -2,4-Cyclopentadien-1-yl)(1,2,3,4,5,6- η)-1-methylboratabenzene]iron, 10Cl
 [65777-53-9]



M 211.881
 Bright-red cryst. (pentane). Mp 56-7°. Subl. *in vacuo*.
 Herberich, G.E. *et al.*, *J. Organomet. Chem.*, 1978, **144**, C1 (synth, ms, pmr, nmr)

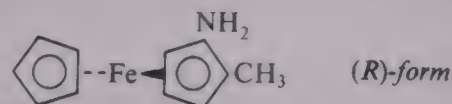
C₁₁H₁₃FeN **Fe-00767**
 (Aminomethyl)ferrocene, 9Cl
Ferrocenylmethylamine
 [12176-38-4]



M 215.077
 Orange oil. Mp 30-5°. Bp_{0.02} 90-5°.
 B, HCl: [12261-29-9]. Yellow needles (EtOH). Mp 185-90°.

Schlögl, K., *Monatsh. Chem.*, 1957, **88**, 601 (synth)

C₁₁H₁₃FeN **Fe-00768**
 1-Amino-2-methylferrocene
2-Methylferrocenamine, 8Cl. *2-Methylaminoferrocene*



M 215.077
 (1R)-form [31760-79-9]
 Brown-yellow air-sensitive cryst. [α]_D²⁰ 41° (c, 0.1 in EtOH).

Ac:

C₁₃H₁₅FeNO M 257.115
 Mp 75-8°. [α]_D²⁰ +410° (c, 0.1 in EtOH).

Schlögl, K. *et al.*, *Naturwissenschaften*, 1958, **45**, 337 (synth)

Schlögl, K., *Fortschr. Chem. Forsch.*, 1966, **6**, 479.

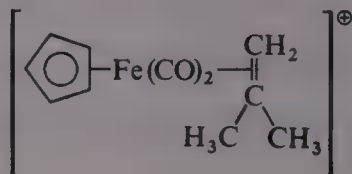
Lehner, H. *et al.*, *Monatsh. Chem.*, 1970, **101**, 895 (synth, resoln, uv, pmr)

Rapic, V. *et al.*, *Monatsh. Chem.*, 1977, **108**, 767 (synth, resoln)

C₁₁H₁₃FeO₂[⊕]

Fe-00769

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)((1,2-η)-2-methyl-1-propene)iron(1+)
η⁵-Cyclopentadienyl-η²-isobutenedicarbonyliron(1+)
[46238-51-1]



M 233.070 (ion)

Tetrafluoroborate: [41707-16-8].

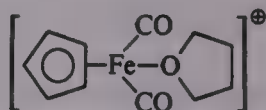
C₁₁H₁₃BF₄FeO₂ M 319.873

Yellow cryst. Mp 101-2°.

Giering, W.P. *et al*, *J. Organomet. Chem.*, 1970, **25**, C71 (*synth*)Kerber, R.C. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 2927 (*synth*, *ir*)Faller, J.W. *et al*, *J. Organomet. Chem.*, 1975, **88**, 101 (*pmr*, *cmr*, *synth*)C₁₁H₁₃FeO₃[⊕]

Fe-00770

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(tetrahydrofuran)iron(1+)
(η⁵-Cyclopentadienyl)dicarbonyl(tetrahydrofuran)-iron(1+)



M 249.069 (ion)

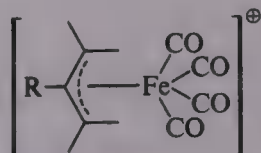
Intermed. for preparing cationic complexes of thermodynamically unstable ligands.

Tetrafluoroborate: [63313-71-3].

C₁₃H₁₃BF₄FeO₃ M 359.895Red flocculent cryst. (CH₂Cl₂/hexane). Dec. at 103°.Reger, D.L. *et al*, *J. Organomet. Chem.*, 1977, **131**, 153 (*synth*, *ir*, *pmr*, *cmr*)Schmidt, E.K.G. *et al*, *J. Organomet. Chem.*, 1981, **220**, 87 (*use*)C₁₁H₁₃FeO₄[⊕]

Fe-00771

Tetracarbonyl[(2,3,4-η)-2,4-dimethyl-2-penten-4-yl]iron(1+)
Tetracarbonyl(1,1,3,3-tetramethyl-π-allyl)iron(1+)



R = H

M 265.068 (ion)

Tetrafluoroborate:

C₁₁H₁₃BF₄FeO₄ M 351.872Yellow needles (CH₂Cl₂). Mp >100° dec.Gibson, D.H. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 720 (*synth*, *ir*, *pmr*)C₁₁H₁₃FeO₄[⊕]

Fe-00772

Tetracarbonyl[(1,2,3-η)-1,1,3-trimethyl-2-butenyl]iron(1+),
9Cl
Tetracarbonyl(1,1,3,3-tetramethyl-π-allyl)iron(1+),
8Cl

As Tetracarbonyl(η³-2-propenyl)iron(1+), Fe-00195 withR = CH₃

M 265.068 (ion)

Undergoes H migration in strong acids.

Tetrafluoroborate: [34852-86-3].

C₁₁H₁₃BF₄FeO₄ M 351.872Yellow needles (CH₂Cl₂). Mp 100° dec.Gibson, D.H. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 720 (*synth*, *ir*)Gibson, D.H. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 5090 (*pmr*)Parakkat, B.C. *et al*, *J. Inorg. Nucl. Chem.*, 1975, **37**, 2340 (*mössbauer*)C₁₁H₁₃FeO₄[⊕]

Fe-00773

Tricarbonyl[(1,2,3-η)-1,4-dimethyl-5-oxo-2-hexenyl-O]iron(1+), 9Cl
[53080-65-2]

As Tricarbonyl[(1,2,3-η)-5-oxo-2-hexenyl-O]iron(1+), Fe-00423 with

R = CH₃

M 265.068 (ion)

Hexafluorophosphate: [53110-59-1].

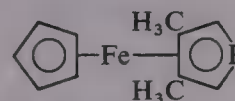
C₁₁H₁₃F₆FeO₄P M 410.032

Yellow cryst.

Greaves, E.O. *et al*, *J. Chem. Soc., Chem. Commun.*, 1974, 257 (*synth*, *pmr*, *ir*)Sim, G.A. *et al*, *Acta Crystallogr., Sect. B*, 1979, **35**, 1477 (*struct*)C₁₁H₁₃FeP

Fe-00774

(η⁵-2,4-Cyclopentadien-1-yl)((1,2,3,4,5-η)-3,4-dimethyl-1H-
-phosphol-1-yl)iron, 10Cl
3,4-Dimethyl-1-phosphaferrocene
[63287-56-9]

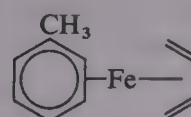


M 232.044

Orange solid with ferrocene-like odour (MeOH). Mp 78°. Bp 40° subl. *in vacuo*. Undergoes electrophilic substitution reactions; easily oxidised in soln.Mathey, F. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 3537 (*cryst struct*)Mathey, F., *J. Organomet. Chem.*, 1977, **139**, 77 (*synth*, *pmr*, *nmr*, *cmr*, *ms*)De Lauzon, G. *et al*, *J. Organomet. Chem.*, 1978, **156**, C33 (*pmr*, *cmr*, *nmr*)C₁₁H₁₄Fe

Fe-00775

(η⁴-1,3-Butadiene)((1,2,3,4,5,6-η)-methylbenzene)iron, 9Cl
(η⁴-1,3-Butadiene)(η⁶-toluene)iron
[38720-20-6]



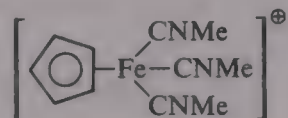
M 202.079

Volatile red liq.

Williams-Smith, D.L. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 4042 (*synth*, *pmr*, *ms*)

Ittel, S.D. *et al*, *Organometallics*, 1982, **1**, 1432 (*synth*, *pmr*)**C₁₁H₁₄FeN₃⁺ Fe-00776**

(η^5 -2,4-Cyclopentadien-1-yl)tris(isocyanomethane)iron(1+), 9Cl
 π -Cyclopentadienyltris(methyl isocyanide)iron(1+), 8Cl.
 π -Cyclopentadienyltris(methyl isonitrile)iron(1+)
 [32679-05-3]



M 244.099 (ion)

Iodide: [53419-37-7].

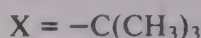
C₁₁H₁₄FeIN₃ M 371.003

Orange-yellow. Mp 185° dec.

Dineen, J.A. *et al*, *J. Organomet. Chem.*, 1974, **71**, 77 (*synth*, *ir*, *pmr*)Grant, M.E. *et al*, *J. Coord. Chem.*, 1979, **9**, 205 (*synth*, *ir*, *mössbauer*)Johnson, B.V. *et al*, *Inorg. Chem.*, 1979, **18**, 1796 (*ir*, *mössbauer*)**C₁₁H₁₄FeO₂ Fe-00777****tert-Butyldicarbonyl- π -cyclopentadienyliron**

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(1,1-dimethylethyl)iron, 9Cl. Dicarbonyl- π -cyclopentadienyl-tert-butyliron. (η^5 -Cyclopentadienyl)dicarbonyl-tert-butyliron

[43157-79-5]

As Bromodicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00173 with

M 234.077

Orange-yellow cryst. Mp 72-5°.

Giering, W.P. *et al*, *J. Organomet. Chem.*, 1970, **25**, C71 (*synth*, *ir*, *pmr*, *ms*)Bodnar, T. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 3292 (*synth*)**C₁₁H₁₄FeO₂ Fe-00778****Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2-methylpropyl)iron, 9Cl**

Dicarbonyl- π -cyclopentadienyl(isobutyl)iron, 8Cl. σ -Isobutyl- π -cyclopentadienyldicarbonyliron. (η^5 -Cyclopentadienyl)dicarbonylisobutyliron

[32679-10-0]

As Bromodicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00173 with

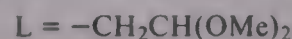
M 234.077

Amber oil. Bp_{0.01} 50°.Green, M.L.H. *et al*, *J. Chem. Soc. (A)*, 1971, 3220 (*synth*, *ir*, *pmr*)Florio, S.M. *et al*, *J. Organomet. Chem.*, 1976, **112**, C17 (*synth*)**C₁₁H₁₄FeO₄ Fe-00779****Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,2'-dimethoxyethyl)iron, 9Cl**

π -Cyclopentadienyldicarbonyl- σ -(2,2-dimethoxyethyl)iron

[55337-24-1]

As Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(difluorophosphinothioyl-*P*)iron, Fe-00189 with



M 266.076

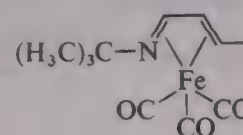
Waxy yellow solid (pet. ether). Mp 29-30°. V. sensitive to hydrolysis.

Cutler, A. *et al*, *J. Organomet. Chem.*, 1974, **77**, 381 (*synth*, *ir*, *pmr*)Chang, T.C.T. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 5930 (*use*)**C₁₁H₁₅FeNO₃ Fe-00780****(η^4 -N-2-Butenylidene-2-methyl-2-propanamine)tricarbonyliron, 9Cl**

(N-2-Butenylidenebutylamine)tricarbonyliron, 8Cl.

(Crotonaldehyde-N-butylimine)tricarbonyliron

[59420-03-0]



M 265.091

Air-sensitive red oil. Bp_{0.01} 50°.Otsuka, S. *et al*, *Inorg. Chem.*, 1967, **6**, 20 (*synth*)Leibfritz, D. *et al*, *J. Organomet. Chem.*, 1976, **105**, 255 (*cmr*)**C₁₁H₁₅FeN₆⁺⁺ Fe-00781****(Cyano-C)pentakis(isocyanomethane)iron(2+)**

(Cyano-C)pentakis(methyl isocyanide)iron(2+)



M 287.127 (ion)

Characterised spectroscopically.

Bis(fluorosulfate): [42584-09-8].

C₁₁H₁₅F₂FeN₆O₆S₂ M 485.240

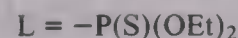
No phys. props. reported.

Eaborn, C. *et al*, *J. Organomet. Chem.*, 1973, **55**, C68 (*synth*)**C₁₁H₁₅FeO₄PS Fe-00782****Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(O,O-diethylphosphorothioito-*P*)iron**

Dicarbonyl(η^5 -cyclopentadienyl)(O,O-diethylthiophosphito)iron

[59689-97-3]

As Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(difluorophosphinothioyl-*P*)iron, Fe-00189 with

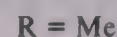


M 330.118

Yellow-brown powder (CH₂Cl₂/hexane).Piraino, P. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 610 (*synth*, *ir*, *pmr*)**C₁₁H₁₆B₂FeO₃S Fe-00783****Tricarbonyl[(1,2,3,4,5- η)-3,4-diethyl-2,5-dihydro-2,5-dimethyl-1,2,5-thiadiborole]iron, 10Cl**

[54688-79-8]

As Tricarbonyl[(1,2,3,4,5- η)-3,4-diethyl-2,5-dihydro-1,2,5-thiadiborole]iron, Fe-00449 with



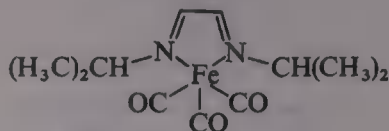
M 305.773

Yellow-orange cryst. Mp 23-5°. Bp_{0.02} 35°.Siebert, W. *et al*, *J. Organomet. Chem.*, 1977, **131**, 1 (*synth*, *pmr*, *nmr*, *ir*, *ms*)C₁₁H₁₆FeN₂O₃

Fe-00784

Tricarbonyl[*N,N'*-1,2-ethanediylidenebis[2-propanamine]-*N,N'*]iron, 9Cl

Glyoxalbis(isopropylimine)tricarbonyliron. Tricarbonyl(2,6-dimethyl-3,6-diaza-3,5-octadiene)iron [54446-62-7]



M 280.106

Air-sensitive red oil.

tom Dieck, H. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1975, **14**, 251 (*synth*, *ir*, *pmr*)Leibfritz, D. *et al*, *J. Organomet. Chem.*, 1976, **105**, 255 (*cmr*)C₁₁H₁₇FeO₂P

Fe-00785

Acetylcarbonyl(η⁵-2,4-cyclopentadien-1-yl)(trimethylphosphine)iron, 10Cl

[32678-80-1]

As Bromocarbonyl(η⁵-2,4-cyclopentadien-1-yl)(trimethylphosphine)iron, Fe-00455 with

X = Ac

M 268.075

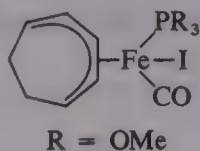
Waxy orange solid. Mp 71-3°. Bp_{0.03} 80-90° subl. Known in opt. active forms.Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1981, **206**, 77 (*synth*, *ir*, *pmr*)Brunner, H. *et al*, *J. Organomet. Chem.*, 1981, **210**, 223; *Chem. Ber.*, 1981, **114**, 2186.C₁₁H₁₈FeIO₄P

Fe-00786

Carbonyl[(1,2,3,4,5-η)-2,4-cycloheptadien-1-yl]iodo(trimethyl phosphite-P)iron

Carbonyl-π-cycloheptadienyliodo(phosphorous acid)-iron trimethyl ester, 8Cl

[31988-04-2]



R = OMe

M 427.986

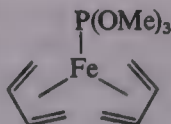
Mp 51-3°.

Brown, D.A. *et al*, *Inorg. Chim. Acta*, 1970, **4**, 428 (*synth*, *ir*)C₁₁H₂₁FeO₃P

Fe-00787

Bis(η⁴-1,3-butadiene)(trimethyl phosphite-P)iron, 10Cl

[56687-33-3]



M 288.106

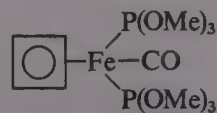
Orange-yellow cryst. (pentane). Mp 78°.

Ittel, S.D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 3874 (*synth*, *pmr*, *cmr*, *nmr*, *ir*, *ms*)C₁₁H₂₂FeO₇P₂

Fe-00788

Carbonyl(η⁴-1,3-cyclobutadiene)bis(trimethyl phosphite-P)-iron, 9Cl

[53778-37-3]

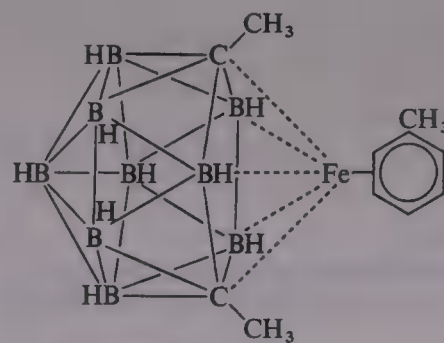


M 384.085

Mp 85-7°.

Fischler, I. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1975, **14**, 54 (*synth*, *ir*, *uv*)C₁₁H₂₃B₉Fe

Fe-00789

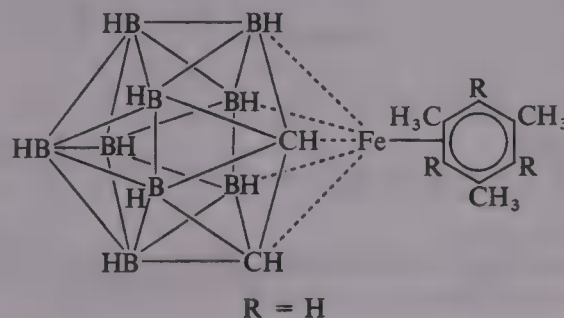
[(1,2,3,4,5,6-η)-Methylbenzene-[(7,8,9,10,11-η)-1,2,3,4,5,6,8,10,11-nonahydro-7,9-dimethyl-7,9-dicarbaundecaborato(2-)]iron [closo-1-(η⁶-Toluene)-2,4-dimethyl-1,2,4-FeC₂B₉H₉] [80464-85-3]

M 308.440

Red cryst. Mp 198°.

Garcia, M.P. *et al*, *J. Chem. Soc., Chem. Commun.*, 1981, 871 (*synth*, *struct*, *ir*, *nmr*, *cmr*)C₁₁H₂₃B₉Fe

Fe-00790

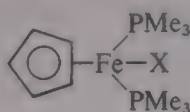
[(1,2,3,4,5,6-η)-1,3,5-Trimethylbenzene[(7,8,9,10,11-η)-undecahydro-7,8-dicarbaundecaborato(2-)]iron 3,1,2-(η⁶-Mesitylene)-FeC₂B₉H₁₁ [82733-98-0]

R = H

M 308.440

Orange cryst. (CH₂Cl₂/hexane). Mp 249-51° dec.Hanusa, T. *et al*, *Polyhedron*, 1982, **1**, 77 (*synth*, *struct*, *pmr*, *ir*, *nmr*)

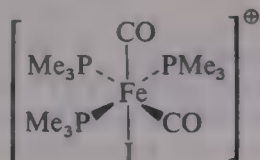
C₁₁H₂₃FeIP₂ **Fe-00791**
 (η⁵-2,4-Cyclopentadien-1-yl)iodobis(trimethylphosphine)iron,
 10Cl
 [78192-57-1]



X = I

M 400.002
 Black cryst. (Et₂O/pet. ether). Mp 128-30° dec.
 Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1981, **206**, 77 (synth, pmr)

C₁₁H₂₇FeIO₂P₃[⊕] **Fe-00792**
 Dicarbonyliodotris(trimethylphosphine)iron(1+), 9Cl



M 467.006 (ion)

mer-cis-form

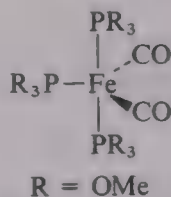
Triiodide: [62048-77-5].

C₁₁H₂₇FeI₄O₂P₃ M 847.719

Characterised by ir.

Pankowski, M. *et al*, *J. Organomet. Chem.*, 1977, **125**, 231;
 1981, **221**, C21 (synth, ir)

C₁₁H₂₇FeO₁₁P₃ **Fe-00793**
 Dicarbonyltris(trimethyl phosphite-P)iron, 9Cl
 Dicarbonyltris(phosphorous acid)iron nonamethyl ester,
 8Cl
 [14767-99-8]



M 484.096

cis-form [19195-91-6]

Off-white cryst. (pet. ether).

Reckziegel, A. *et al*, *J. Organomet. Chem.*, 1965, **3**, 341 (ir)

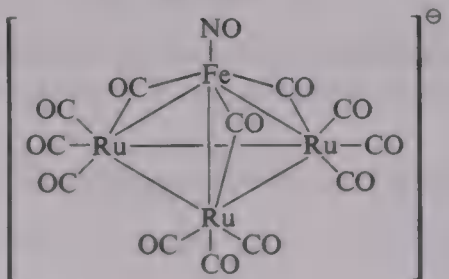
Mathieu, R. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1967, **264**,
 1053 (synth)

Harris, T.V. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 6966 (synth)

Berke, H. *et al*, *Chem. Ber.*, 1981, **114**, 2754 (synth, cryst
 struct)

Frazier, C.C. *et al*, *Inorg. Chem.*, 1981, **20**, 4009 (synth)

C₁₂FeNO₁₃Ru₃[−] **Fe-00794**
 Tri-μ-carbonylnonacarbonyl(nitrosylferrate)triruthenate(1-)
 Dodecacarbonyl(nitrosylferrate)triruthenate(1-)

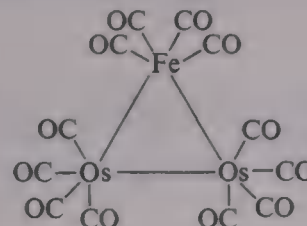


M 725.188 (ion)

Bis(triphenylphosphine)iminium salt:
 C₄₈H₃₀FeN₂O₁₃P₂Ru₃ M 1263.775
 No phys. props. reported.

Fjare, D.E. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 1572 (synth,
 struct)

C₁₂FeO₁₂Os₂ **Fe-00795**
 Dodecacarbonylirondiosmium, 8Cl
 [12560-38-2]

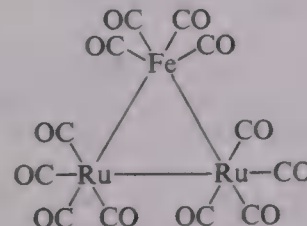


M 772.372

Orange cryst. Mp >150° dec.

Moss, J.R. *et al*, *J. Organomet. Chem.*, 1970, **23**, C23 (synth, ir)

C₁₂FeO₁₂Ru₂ **Fe-00796**
 Octacarbonyl(tetracarbonyliron)diruthenium
 Octacarbonyl[μ-(tetracarbonylferrio)]diruthenium, 8Cl.
 Tetracarbonyl(octacarbonyl-diruthenio)iron, 8Cl.
 Dodecacarbonylirondiruthenium
 [12388-68-0]



M 594.112

Thought to be isostructural with Ru₃(CO)₁₂. Brown
 cryst.

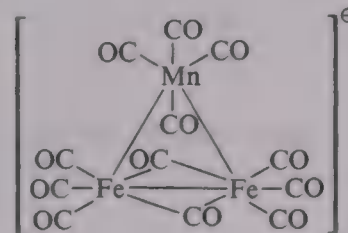
Knight, J. *et al*, *Chem. Ind. (London)*, 1968, 1159 (synth, ir)

Yawney, D.B.W. *et al*, *J. Chem. Soc. (A)*, 1969, 502 (synth, ir,
 uv, ms)

Tyler, D.R. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 7888 (uv)

Baev, A.K. *et al*, *J. Organomet. Chem.*, 1981, **213**, 151 (props)

C₁₂Fe₂MnO₁₂[−] **Fe-00797**
 Tetracarbonyl(di-μ-carbonylhexacarbonyldiferrate)mangan-
 ate(1-), 10Cl
 Dodecacarbonyldiferratemanganate(1-), 9Cl



M 502.757 (ion)

Tetraethylammonium salt: [53433-49-1].

C₂₀H₂₀Fe₂MnNO₁₂ M 633.010

Intensely blue-black cryst. (EtOH).

Bis(triphenylphosphine)iminium salt: [68520-37-6].

C₄₈H₃₀Fe₂MnNO₁₂P₂ M 1041.344

Dark-blue cryst. (CH₂Cl₂/Et₂O). Mp 171-3°.

Anders, U. *et al*, *J. Chem. Soc., Chem. Commun.*, 1966, 291
 (synth, ir, uv)

Ruff, J.K., *Inorg. Chem.*, 1968, 7, 1818 (*synth, ir*)
 Knight, J.A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1970, 1006 (*ir*)
 Lindauer, M.W. *et al*, *Inorg. Chem.*, 1970, 9, 1694 (*mössbauer*)
 Tyler, D.R. *et al*, *J. Am. Chem. Soc.*, 1978, 100, 7888 (*uv*)

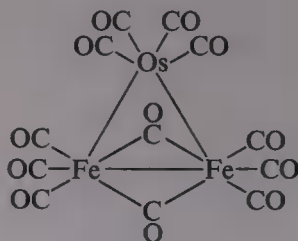
C₁₂Fe₂O₁₂Os

Fe-00798

Tetracarbonyl(di-μ-carbonylhexacarbonyldiiron)osmium

Di-μ-carbonyldecacarbonyldiironosmium, 8Cl. Dodecacarbonyldiironosmium, 8Cl

[32457-60-6]



M 638.019

Purple cryst. (hexane). Mp ~130° dec.

Knight, J.A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1970, 1006 (*synth, ir*)

Moss, J.R. *et al*, *J. Organomet. Chem.*, 1970, 23, C23 (*synth, ir*)

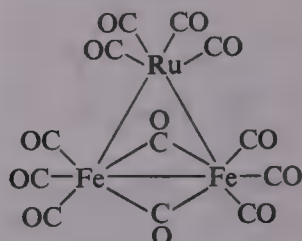
C₁₂Fe₂O₁₂Ru

Fe-00799

Tetracarbonyl(di-μ-carbonylhexacarbonyldiiron)ruthenium, 9Cl

Di-μ-carbonylhexacarbonyl[μ-(tetracarbonylruthenio-)]diiron, 8Cl. Tetracarbonyl(di-μ-carbonylhexacarbonyl-diferrio)ruthenium, 8Cl. Dodecacarbonyldiironruthenium

[20468-34-2]



M 548.889

Violet cryst. Mp >125° dec.

Knight, J.A. *et al*, *Chem. Ind. (London)*, 1968, 1159 (*synth*)
 Yawney, D.B.W. *et al*, *J. Chem. Soc. (A)*, 1969, 502 (*synth, ir, uv, ms*)

Knight, J.A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1970, 1006 (*ir*)

Foster, A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1974, 1042 (*cmr*)

Tyler, D.R. *et al*, *J. Am. Chem. Soc.*, 1978, 100, 7888 (*struct*)

C₁₂Fe₃O₁₂[−]

Fe-00800

Di-μ-carbonyldecacarbonyltriferrate(1−), 9Cl

Dodecacarbonyltriferrate(1−)

[55787-46-7]



M 503.666 (ion)

Paramagnetic. Generated in soln.

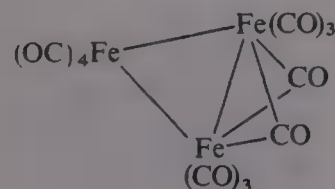
Miholova, D. *et al*, *Inorg. Chim. Acta*, 1978, 27, L67 (*synth*)
 Dawson, P.A. *et al*, *Inorg. Chem.*, 1980, 19, 465 (*synth, esr*)
 Babin, V.N. *et al*, *J. Organomet. Chem.*, 1983, 241, C41 (*esr*)

C₁₂Fe₃O₁₂

Fe-00801

Dodecacarbonyltriferrate

Di-μ-carbonyldecacarbonyltriferrate, 9Cl. Iron tetracarbonyl. Triiron dodecacarbonyl



M 503.666

Reducing agent for NO₂ groups, catalyses alkyne trimerisations. Dark-green solid. Spar. sol. giving intensely coloured solns. Slowly attacked by atmospheric oxygen.

Lewis, J. *et al*, *J. Chem. Soc. (A)*, 1966, 1663 (*ms*)

Inorg. Synth., 1966, 8, 181 (*synth*)

Poliakoff, M. *et al*, *J. Chem. Soc. (A)*, 1971, 654 (*ir*)

Forster, A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1974, 1042 (*cmr*)

Cotton, F.A., *Prog. Inorg. Chem.*, 1976, 21, 1 (*struct*)

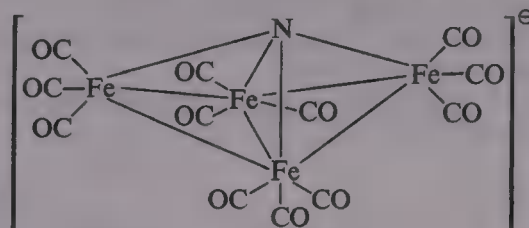
Russ. Pat., 515 726, (1976); *CA*, 85, 126761 (*synth*)

Fieser, M. *et al*, *Reagents for Organic Synthesis*, Wiley, 1967-83, 5, 706; 7, 144.

Sax, N.I., *Dangerous Properties of Industrial Materials*, 5th Ed., Van Nostrand-Reinhold, 1979, 747.

C₁₂Fe₄NO₁₂[−]

Fe-00802

Dodecacarbonyl-μ₄-nitridotetraferrate(1−), 10Cl

M 573.520 (ion)

Tetraethylammonium salt: [75334-24-6].

C₂₀H₂₀Fe₄N₂O₁₂ M 703.772Black cryst. (EtOH/CH₂Cl₂).

Bis(triphenylphosphine)iminium salt: [76791-99-6].

C₄₈H₃₀Fe₄N₂O₁₂P₂ M 1112.107Black air-stable cryst. (Et₂O/hexane).

Tachikawa, M. *et al*, *J. Am. Chem. Soc.*, 1980, 102, 6648 (*synth, ir, cmr*)

Fjare, D.E. *et al*, *J. Am. Chem. Soc.*, 1981, 103, 1572; *Inorg. Chem.*, 1981, 20, 3533 (*synth, struct, ir*)

C₁₂Fe₄N₄O₁₆Sn

Fe-00803

Dodecacarbonyltetranitrosyl-μ₄-stannanetetrayltetrairon, 8Cl

Dodecacarbonyltetranitrosylstannanetetrairon. Tetrakis-(tricarbonylnitrosyliron)tin

[31276-22-9]



M 798.227

V. dark-red cryst. (CH₂Cl₂/hexane).

O'Brien, R.J. *et al*, *J. Chem. Soc. (A)*, 1971, 736 (*synth, ir*)

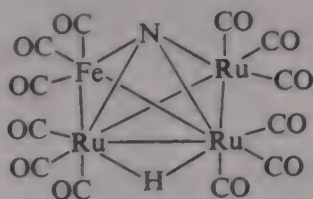
C₁₂HFeNO₁₂Ru₃

Fe-00804

Nonacarbonyl-μ-hydro-μ₄-nitrido(tricarbonyliron)triruthenium

Dodecacarbonylnitridoirontriruthenium

[76791-95-2]



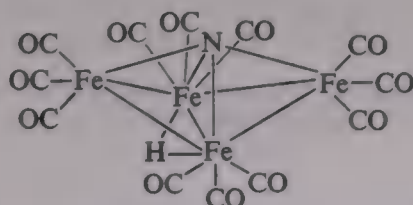
M 710.196

Probable struct. *ir* ν_{CO} 2104w, 2071s, 2062s, 2043s, 2029s, 2000m, 1991m, 1968w, 1955w cm⁻¹ (hexane).Fjare, D.E. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 1572 (*synth*)C₁₂HFe₄NO₁₂

Fe-00805

Dodecacarbonyl-μ-hydro-μ₄-nitridotetrairon

[75038-48-1]



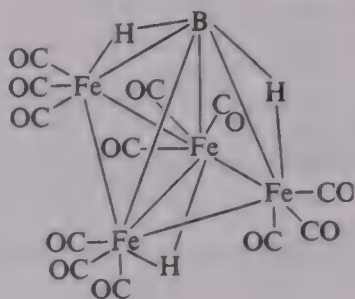
M 574.527

Black air-stable cryst. (CH₂Cl₂ or hexane).Tachikawa, M. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 6648 (*synth, struct, cmr, ir, ms*)Fjare, D.E. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 1572; *Inorg. Chem.*, 1981, **20**, 3533 (*synth*)C₁₂H₃BFe₄O₁₂

Fe-00806

[(μ₄-(Boryl-B:B:H:H'))]dodecacarbonyl-μ-hydrotetrairon

[80572-82-3]



M 573.347

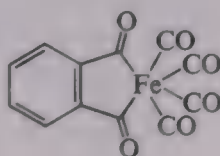
Air-sensitive dark-brown cryst.

Wong, K.W. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 1111 (*synth, pmr, nmr*)Fehlner, T.P. *et al*, *Organometallics*, 1983, **2**, 825 (*synth, struct*)C₁₂H₄FeO₆

Fe-00807

Tetracarbonyl(1,2-phenylenedicarbonyl)iron, 9Cl

[59400-28-1]



M 300.007

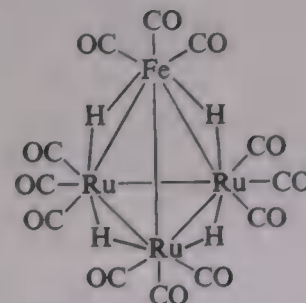
Intermed. in naphthoquinone synth. Cryst. Mp 137° dec.

Grevels, F.W. *et al*, *J. Organomet. Chem.*, 1976, **111**, 235(*synth, ir, pmr, uv*)Liebeskind, L.S. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 7397 (*use*)Liebeskind, L.S. *et al*, *J. Organomet. Chem.*, 1980, **202**, C73 (*synth*)C₁₂H₄FeO₁₂Ru₃

Fe-00808

Dodecacarbonyltetrahydro(iron)triruthenium, 10Cl, 8Cl

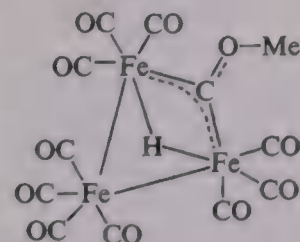
[11064-20-3]



M 699.213

Orange-red or dark-red powder (CH₂Cl₂/hexane). pK_a 13.4 (MeOH at 25°).Knox, S.A.R. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 3942 (*synth, ir, pmr, ms*)Walker, H.W. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 7428.Foley, H.C. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 7176.C₁₂H₄Fe₃O₁₁

Fe-00809

Decacarbonyl-μ-hydro(μ-(methoxymethylidyne))triiron, 10Cl (μ₂-Hydrido)(μ₃-methoxycarbyne)decacarbonyltriiron [55992-19-3]

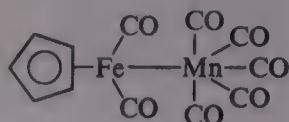
M 491.698

Methoxycarbyne ligand semi-triply bridging. Dark-red-purple cryst. (hexane). Mp 135° dec, 170° dec. Bp 45° *in vacuo* subl. Stereochemically nonrigid.Shriver, D.F. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 1594 (*synth, struct, ms, pmr*)Hodali, H.A. *et al*, *Inorg. Chem.*, 1979, **18**, 1236 (*synth, ir, cmr, pmr*)Sumner, C.E. *et al*, *Organometallics*, 1982, **1**, 1350 (*synth, ir, pmr, ms*)Keister, J.B. *et al*, *Organometallics*, 1983, **2**, 219 (*ir, cmr*)

C₁₂H₅FeMnO₇

Fe-00810

Pentacarbonyl[dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron]-manganese, 9Cl
 Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)pentacarbonylmanganioiron. Pentacarbonyl(dicarbonyl-π-cyclopentadienylferric)manganese, 8Cl. Cyclopentadienyliron dicarbonylpentacarbonylmanganese. (η⁵-Cyclopentadienyl)-dicarbonylironpentacarbonylmanganese. Heptacarbonyl(η⁵-cyclopentadienyl)ironmanganese
 [12088-73-2]

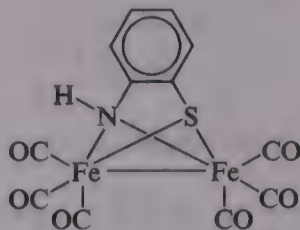


M 371.952

Dark-red plates. Mp 76°. Bp 40° *in vacuo* subl.King, R.B. *et al*, *Chem. Ind. (London)*, 1961, 747 (*synth*)Herber, R.H. *et al*, *Inorg. Chem.*, 1964, 3, 101 (*mössbauer*)Dessy, R.E. *et al*, *J. Am. Chem. Soc.*, 1966, 88, 5117, 5124.Hansen, P.J. *et al*, *J. Organomet. Chem.*, 1966, 6, 389 (*cryst struct*)Madach, T. *et al*, *Chem. Ber.*, 1980, 113, 2675 (*synth*, *pmr*, *ir*, *uv*)Busetto, L. *et al*, *J. Chem. Soc., Dalton Trans.*, 1982, 1631 (*ir*)C₁₂H₅Fe₂NO₆S

Fe-00811

[μ-[2-Aminobenzenethiolato(2-)-N,S:N,S]]hexacarbonyldiiron, 8Cl
 [26601-52-5]

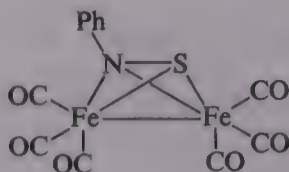


M 402.929

Brick-red cryst. (pentane). Mp 106-8°. Bp_{0.1} 70° subl.Manuel, T.A. *et al*, *Inorg. Chem.*, 1964, 3, 1049 (*synth*, *ir*, *pmr*)Le Borgne, G. *et al*, *Acta Crystallogr., Sect. B*, 1973, 29, 1040 (*struct*)C₁₂H₅Fe₂NO₆S

Fe-00812

Hexacarbonyl[μ-[(thionitroso)benzene]]diiron, 8Cl
 [21077-63-4]



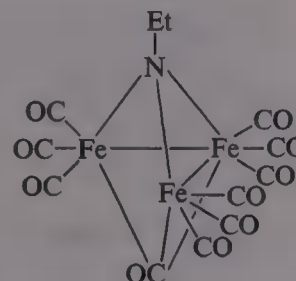
M 402.929

Orange cryst. (hexane). Mp 65-7°.

Otsuka, S. *et al*, *Inorg. Chem.*, 1968, 7, 1833 (*synth*, *ir*, *ms*)C₁₂H₅Fe₃NO₁₀

Fe-00813

μ₃-Carbonylnonacarbonyl[μ₃-[ethanaminato(2-)]triiron, 9Cl
 Decacarbonyl[μ₃-(ethanaminato)]triiron
 [56902-54-6]



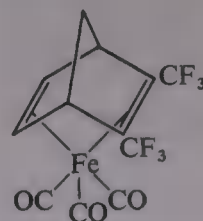
M 490.713

Orange cryst.

Aime, S. *et al*, *Gazz. Chim. Ital*, 1975, 105, 617 (*synth*, *ms*, *pmr*, *ir*)C₁₂H₆F₆FeO₃

Fe-00814

[(2,3,5,6-η)-2,3-Bis(trifluoromethyl)bicyclo[2.2.1]hepta-2,5-diene]tricarbonyliron, 9Cl
 [59949-39-2]



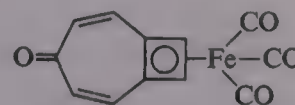
M 368.015

Yellow needles (cyclohexane). Mp 82-4°.

Bursics, A.R.L. *et al*, *J. Fluorine Chem.*, 1976, 7, 619 (*synth*, *pmr*, *nmr*, *ms*, *ir*)C₁₂H₆FeO₄

Fe-00815

[(1,7,8,9-η)-Bicyclo[5.2.0]nona-2,5,7,9-tetraen-4-one]tricarbonyliron, 10Cl
 [61927-75-1]

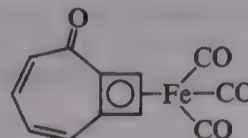


M 270.024

Yellow cryst. Mp 150.5-151°. Bp_{0.0002} 60-70° subl.Stringer, M.B. *et al*, *Aust. J. Chem.*, 1978, 31, 1607 (*synth*, *pmr*, *ir*, *ms*, *uv*)Hall, S.R. *et al*, *Aust. J. Chem.*, 1978, 31, 1619 (*struct*)C₁₂H₈FeO₄

Fe-00816

[(1,7,8,9-η)-Bicyclo[5.2.0]nona-3,5,7,9-tetraen-2-one]tricarbonyliron, 10Cl
 [67606-62-6]



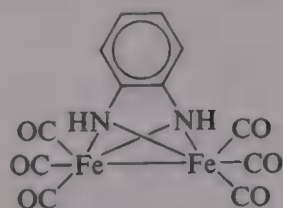
M 270.024

Orange-red cryst. Mp 90-5°. Bp_{0.01} 90° subl.Stringer, M.B. *et al*, *Aust. J. Chem.*, 1978, 31, 1607 (*synth*, *pmr*, *ir*, *ms*)

Handle all chemicals with care

C₁₂H₆Fe₂N₂O₆

Fe-00817

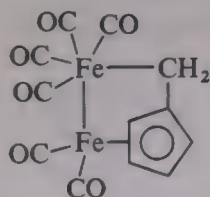
Hexacarbonyl[μ-[o-phenylenediaminato(2-)]]diiron, 8Cl
[25840-05-5]

M 385.883

Red cryst. (pet. ether). Mp 132-4° dec.

Bagga, M.M. *et al*, *J. Chem. Soc. (C)*, 1969, 1534 (*synth*, *ir*, *pmr*)C₁₂H₆Fe₂O₆

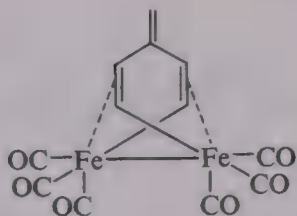
Fe-00818

Hexacarbonyl[μ-(η⁵-2,4-cyclopentadien-1-ylidenemethylene)]diiron, 9Cl
Hexacarbonyl(5-methylene-1,3-cyclopentadiene)diiron, 9Cl. Hexacarbonyl(fulvene)diiron. Hexacarbonyl(cyclopentadienylidenemethylene)diiron
[58615-86-4]

M 357.870

Dark-red cryst. (C₆H₆). Mp 140° dec. Bp_{0.01} 60° subl.Weiss, E. *et al*, *Chem. Ber.*, 1962, **95**, 1155 (*synth*, *ir*, *pmr*)Piret, P. *et al*, *Acta Crystallogr.*, 1965, **19**, 85 (*struct*)C₁₂H₆Fe₂O₆

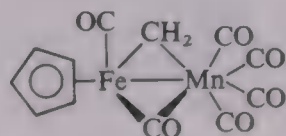
Fe-00819

Hexacarbonyl[μ-[(1,2,5-η:1,4,5-η)-3-methylene-1,4-pentadiene-1,5-diyl]]diiron
[12088-77-6]

M 357.870

Orange-red prisms (MeOH or pet. ether). Mp 62-3°. Bp_{0.01} 30-40° subl.Weiss, E. *et al*, *Chem. Ber.*, 1962, **95**, 1155 (*synth*, *ir*)Piret, P. *et al*, *Acta Crystallogr.*, 1965, **19**, 78 (*struct*)C₁₂H₇FeMnO₆

Fe-00820

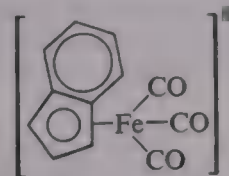
μ-Carbonylpentacarbonyl(η⁵-2,4-cyclopentadienyl)iron-μ-methylenemanganese
(μ-Carbonyl)(μ-methylene)[(cyclopentadienylcarbonyliron)tetracarbonylmanganese]. Hexacarbonyl(η⁵-cyclopentadienyl)iron-μ-methylenemanganese
[83350-15-6]

M 357.969

Cryst. (pentane or by subl. *in vacuo*) (dimorph.). Bp_{0.05} 55° subl.Gadol, S.M. *et al*, *Organometallics*, 1982, **1**, 1607 (*struct*)C₁₂H₇FeO₃⁺

Fe-00821

Tricarbonyl[(1,2,3,3a,7a-η)-1H-inden-1-yl]iron(1+), 10Cl



M 255.033 (ion)

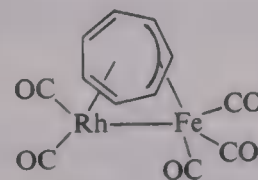
Hexafluorophosphate: [70130-53-9].

C₁₂H₇F₆FeO₃P M 399.997

Characterised spectroscopically.

Johnson, B.V. *et al*, *Inorg. Chem.*, 1979, **18**, 1796 (*synth*, *ir*, *mössbauer*)C₁₂H₇FeO₅Rh

Fe-00822

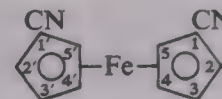
Tricarbonyl[μ-[(1,2,3-η:4,5,6,7-η)-2,4,6-cycloheptatrien-1-yl]](dicarbonylrhodium)iron, 9Cl
μ-[1,2,3-η:4,5,6,7-η-Cycloheptatrienyl]tricarbonyliron-dicarbonylrhodium
[60767-44-4]

M 389.937

Fluxional molecule. Red-brown cryst. (pentane). Mp 96-8°.

Bennett, M.J. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 4810 (*synth*, *struct*, *pmr*, *cmr*, *ms*, *ir*)C₁₂H₈FeN₂

Fe-00823

1,1'-Dicyanoferrocene, 9Cl
1,1'-Ferrocenedinitrile. 1,1'-Ferrocenedicarbonitrile
[12088-89-0]

M 236.056

Yellow-orange cryst. (C₆H₆). Mp 166-8° dec.Nesmeyanov, A.N. *et al*, *Chem. Ber.*, 1960, **93**, 2729 (*synth*)Osgerby, J.M. *et al*, *J. Chem. Soc.*, 1961, 4604 (*synth*)Christopher, R.E. *et al*, *Inorg. Chim. Acta*, 1973, **7**, 219 (*synth*, *ir*, *uv*, *ms*)Abramovitch, R.A. *et al*, *Inorg. Chem.*, 1975, **14**, 3085 (*mössbauer*)C₁₂H₈FeN₂

Fe-00824

1,2-Dicyanoferrocene
1,2-Ferrocenedicarbonitrile, 8Cl

M 236.056

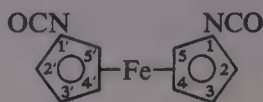
Yellow needles (C₆H₆/pet. ether). Mp 143-4°.Marr, G. *et al*, *J. Organomet. Chem.*, 1969, **16**, 141 (*synth*, *ir*)

C₁₂H₈FeN₂O₂

Fe-00825

1,1'-Diisocyanatoferrocene, 9Cl

Isocyanic acid 1,1'-ferrocenediyl ester, 8Cl. Bis(cyanato-N)ferrocene



M 268.054

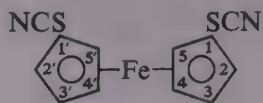
Orange solid. Mp 75.5-77°.

Takemoto, Y. *et al*, *Kogyo Kagaku Zasshi*, 1962, **65**, 685 (synth)Schaaf, R.L. *et al*, *J. Chem. Eng. Data*, 1964, **9**, 103 (synth)Petrovich, P., *C.R. Hebd. Seances Acad. Sci.*, 1966, **263**, 214.Petrovich, P., *CA*, 1967, **66**, 29185; 1968, **68**, 29843 (props)Hertler, W.R., *J. Org. Chem.*, 1976, **41**, 1412 (props)C₁₂H₈FeN₂S₂

Fe-00826

1,1'-Dithiocyanatoferrocene

Ferrocene-1,1'-dithiocyanate



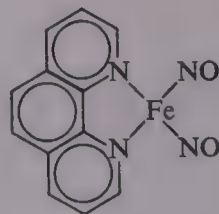
M 300.176

Orange cryst. (C₆H₆). Mp 114-5°.Nefedov, V.A. *et al*, *Zh. Obshch. Khim.*, 1966, **36**, 122 (synth)C₁₂H₈FeN₄O₂

Fe-00827

Dinitrosyl(1,10-phenanthroline-N¹,N¹⁰)iron, 9Cl

[36454-19-0]



M 296.068

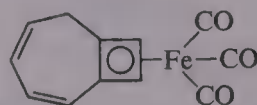
Orange-brown cryst. which can be stored indefinitely under an inert atm. Mp 234° dec.

Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1933, **211**, 132 (synth)Dessy, R.E. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 738 (synth, pmr, ir, mössbauer)C₁₂H₈FeO₃

Fe-00828

[(1,7,8,9-η)-Bicyclo[5.2.0]nona-2,4,7,9-tetraene]tricarbonyliron, 10Cl

[62928-01-2]



M 256.040

Yellow oil. Bp_{0.01} 40-50°. Not separated from [(1,7,8,9-η)-Bicyclo[5.2.0]nona-2,5,7,9-tetraene]tricarbonyliron, Fe-00829.Stringer, M.B. *et al*, *Aust. J. Chem.*, 1978, **31**, 1607 (synth, pmr, ir, ms)C₁₂H₈FeO₃

Fe-00829

[(1,7,8,9-η)-Bicyclo[5.2.0]nona-2,5,7,9-tetraene]tricarbonyliron, 10Cl

[62928-00-1]

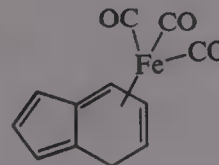
M 256.040

Yellow oil. Bp_{0.01} 40-50°. Not separated from [(1,7,8,9-η)-Bicyclo[5.2.0]nona-2,4,7,9-tetraene]tricarbonyliron, Fe-00828.Stringer, M.B. *et al*, *Aust. J. Chem.*, 1978, **31**, 1607 (synth, pmr, ir, ms)C₁₂H₈FeO₃

Fe-00830

Tricarbonyl[(5,6,7,7a-η)-4H-indene]iron

(Bicyclo[4.3.0]nona-1,3,6,8-tetraene)tricarbonyliron [62402-99-7]



M 256.040

Red cryst. Mp 15°. Bp_{0.1} 50° subl.Eisenstadt, A., *Tetrahedron Lett.*, 1976, 3543 (synth, pmr, ir, ms)C₁₂H₈FeO₄

Fe-00831

Tetracarbonyl(phenylethylene)iron

Tetracarbonyl[(η²-ethenyl)benzene]iron, 9Cl.

Tetracarbonyl(styrene)iron

[12193-57-6]

As (Bromoethylene)tetracarbonyliron, Fe-00105 with

R = Ph

M 272.040

Orange-red cryst. (pentane) or yellow liq. Mp -10°.

Koerner von Gustorf, E. *et al*, *Z. Naturforsch., B*, 1966, **21**, 42 (synth, ir, ms)Koerner von Gustorf, E. *et al*, *Justus Liebigs Ann. Chem.*, 1967, **707**, 190 (ir, ms)C₁₂H₈FeO₄

Fe-00832

Tricarbonyl(1,3,5,7-Cyclooctatetraene-1-carboxaldehyde)iron, 9Cl

Tricarbonyl(formylcyclooctatetraene)iron

[11064-31-6]

As Tricarbonyl[(1,2,3,8-η)-1-methoxy-1,3,5,7-cyclooctatetraene]iron, Fe-00865 with

R = CHO

M 272.040

Exhibits valence tautomerism with form A predominating in soln. at r.t. Red solid. Mp 57-8°.

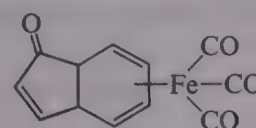
Johnson, B.F.G. *et al*, *J. Chem. Soc. (A)*, 1971, 422 (synth, ir, ms, pmr)Alsop, J.E. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1686 (ms)Paquette, L.A. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 4658 (pmr)C₁₂H₈FeO₄

Fe-00833

Tricarbonyl[(4,5,6,7-η)-3a,7a-dihydro-1H-inden-1-one]iron, 10Cl

(8,9-Dihydroinden-1-one)iron tricarbonyl

[62402-98-6]



M 272.040

cis-form

Yellow needles. Mp 104-5°.

Eisenstadt, A., *Tetrahedron Lett.*, 1976, 3543 (*synth, ir, pmr*)**C₁₂H₈FeO₄****Fe-00834****Tricarbonyl[(O,1,2,3-η)-3-phenyl-2-propenal]iron, 9Cl***(Cinnamaldehyde)iron tricarbonyl*

[38704-79-9]

As [(O,2,3,4-η)-3-Buten-2-one]tricarbonyliron, Fe-00205 with

R = Ph, R' = H

M 272.040

Red cryst. (C₆H₆/pet. ether). Mp 75-82° dec. Forms compd. (1:1) with HCl.Stark, K. *et al*, *Z. Naturforsch., B*, 1964, **19**, 284 (*synth, pmr, ir*)Brodie, A.M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 2031 (*synth, ir, pmr*)De Cian, A. *et al*, *Acta Crystallogr., Sect. B*, 1972, **28**, 3273 (*struct*)Cardaci, G., *J. Am. Chem. Soc.*, 1975, **97**, 1412 (*ir*)Liebfritz, D. *et al*, *J. Organomet. Chem.*, 1976, **105**, 255 (*cmr*)Cardaci, G., *Inorg. Chem.*, 1977, **16**, 3099 (*ir*)**C₁₂H₈FeO₄****Fe-00835****Tricarbonyl[(2,3-η)-1-phenyl-2-propen-1-one]iron, 9Cl***(Acrylophenone)iron tricarbonyl. Tricarbonyl[(O,1,2,3-η)-1-phenyl-2-propen-1-one]iron*

[36645-20-2]

As [(O,2,3,4-η)-3-Buten-2-one]tricarbonyliron, Fe-00205 with

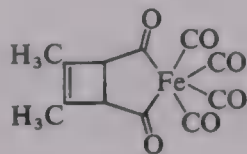
R = H, R' = Ph

M 272.040

Orange cryst. (hexane). Mp 62-5° dec.

Rybinskaya, M.I. *et al*, *Zh. Obshch. Khim.*, 1971, **41**, 2020 (*synth, pmr, ir*)**C₁₂H₈FeO₆****Fe-00836****Tetracarbonyl[(3,4-dimethyl-3-cyclobutene-1,2-diyl)dicarbonyl]iron, 9Cl**

[38296-33-2]



M 304.039

Orange cryst. (pet. ether). Mp 98-9°. Bp₁ 60° subl.Brune, H.A. *et al*, *Z. Naturforsch., B*, 1972, **27**, 639 (*synth, pmr, ms, ir*)**C₁₂H₉BrFeO₃****Fe-00837****Bromotricarbonyl[(1,2,3-η)-2-phenyl-2-propenyl]iron, 9Cl***Bromotricarbonyl(2-phenyl-π-allyl)iron*

[35640-73-4]

As Bromo(η³-2-bromo-2-propenyl)tricarbonyliron, Fe-00111 with

R = Ph, X = Br

M 336.952

Brown needles (THF/hexane). Mp 92° dec.

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1971, **33**, 375 (*synth, ms*)Kritskaya, I.I. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1974, **216**, 567 (*ir*)**C₁₂H₉BrFeO₃****Fe-00838****Bromotricarbonyl[(1,2,3-η)-1-phenyl-2-propenyl]iron, 10Cl, 9Cl***Bromotricarbonyl(1-phenyl-π-allyl)iron*

[61216-88-4]

As Bromo(η³-1-bromo-2-propenyl)tricarbonyliron, Fe-00110 with

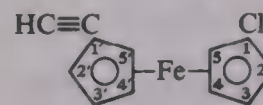
R = Ph, X = Br

M 336.952

Exists as a mixt. of 2 rotational isomers in soln. Brown needles (hexane). Mp 101.5° dec.

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1971, **33**, 375 (*synth, ms*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **101**, 121 (*cmr*)Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1976, 1768 (*pmr*)**C₁₂H₉ClFe****Fe-00839****1-Chloro-1'-ethynylferrocene, 9Cl***(η⁵-Chlorocyclopentadienyl)(η⁵-ethynylcyclopentadienyl)iron*

[40695-26-9]



M 244.503

Yellow-brown oil.

Lixandru, T.S., *Zh. Obshch. Khim.*, 1972, **42**, 1991 (*synth, ir*)**C₁₂H₉ClFeO₃****Fe-00840****Tricarbonylchloro[(1,2,3-η)-2-phenyl-2-propenyl]iron, 9Cl***Tricarbonylchloro(2-phenyl-π-allyl)iron, 8Cl*

[42991-95-7]

As Bromo(η³-2-bromo-2-propenyl)tricarbonyliron, Fe-00111 with

R = Ph, X = Cl

M 292.501

Mp 93°.

Nesmayanov, A.N. *et al*, *J. Organomet. Chem.*, 1969, **16**, 163 (*synth*)Chenskaya, T.B. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1973, 1146 (*ir*)**C₁₂H₉ClFeO₃****Fe-00841****Tricarbonylchloro[(1,2,3-η)-1-phenyl-2-propenyl]iron, 10Cl***Tricarbonylchloro(1-phenyl-π-allyl)iron, 8Cl*

[61176-75-8]

As Bromo(η³-1-bromo-2-propenyl)tricarbonyliron, Fe-00110 with

R = Ph, X = Cl

M 292.501

Yellow cryst. (pet. ether). Mp 88.5°.

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1971, **33**, 375 (synth, ms)

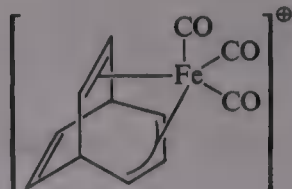
Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **101**, 121 (cmr)

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1976, 1768 (pmr)

C₁₂H₉FeO₃⁺

Fe-00842

[(2,3,4,6,7-η)-Bicyclo[3.2.2]nona-3,6,8-trien-2-yl]tricarbonyliron(1+), 9Cl



M 257.048 (ion)

Reacts with nucleophiles, eg. CN[−], to give subn. prods.

Tetrafluoroborate: [51889-36-2].

C₁₂H₉BF₄FeO₃ M 343.852

Yellow hexagonal cryst. (MeCN). Mp 180° dec.

Eisenstadt, A. *et al*, *Tetrahedron Lett.*, 1970, 4603 (synth, pmr)

Eisenstadt, A., *J. Organomet. Chem.*, 1973, **60**, 335 (props)

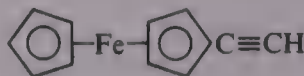
C₁₂H₁₀Fe

Fe-00843

Ethynylferrocene, 10Cl, 9Cl

Ferrocenylacetylene

[1271-47-2]



M 210.058

Amber-yellow cryst. (Et₂O/pentane). Mp 55-6°.

Benkeser, R.A. *et al*, *J. Org. Chem.*, 1961, **26**, 4179 (synth, ir)

Schlögl, K. *et al*, *Monatsh. Chem.*, 1963, **94**, 376 (synth)

Rosenblum, M. *et al*, *J. Organomet. Chem.*, 1966, **6**, 173 (synth, pmr)

Koridze, A.A. *et al*, *J. Organomet. Chem.*, 1977, **136**, 57 (cmr)

C₁₂H₁₀FeN⁺

Fe-00844

(η⁶-Benzene)[(1,2,3,4,5-η)-1-cyano-2,4-cyclopentadien-1-yl]iron(1+)

As (η⁶-Benzene)(η⁵-1-chloro-2,4-cyclopentadien-1-yl)-iron(1+), Fe-00703 with

X = CN

M 224.065 (ion)

Tetraphenylborate:

C₃₆H₃₀BF₄FeN M 543.297

Yellow solid. Dec. at 191-4°.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1965, **160**, 1327 (synth)

Turta, K.I. *et al*, *CA*, 1972, **76**, 19852 (mössbauer)

C₁₂H₁₀FeN⁺

Fe-00845

[(1,2,3,4,5,6-η)-Benzonitrile](η⁵-2,4-cyclopentadien-1-yl)iron(1+), 9Cl

(Cyclopentadienyl)(cyanobenzene)iron(1+)

As (η⁶-Bromobenzene)(η⁵-2,4-cyclopentadien-1-yl)-iron(1+), Fe-00702 with

X = CN

M 224.065 (ion)

Hexafluorophosphate: [33480-27-2].

C₁₂H₁₀F₆FeNP M 369.029

Yellow solid (Me₂CO/Et₂O). Dec. at 210°.

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1967, 1170 (synth)

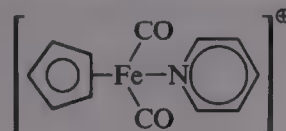
Turta, K.I. *et al*, *CA*, 1972, **76**, 19852 (mössbauer)

Steele, B.R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 529 (cmr)

C₁₂H₁₀FeNO₂⁺

Fe-00846

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(pyridine)iron(1+), 9Cl



M 256.064 (ion)

Hexafluorophosphate: [12088-86-7].

C₁₂H₁₀F₆FeNO₂P M 401.028

Yellow cryst. (Me₂CO/pet. ether).

Tetrafluoroborate: [80506-96-3].

C₁₂H₁₀BF₄FeNO₂ M 342.867

Yellow cryst. (pentane).

Meyer, T.J. *et al*, *Inorg. Chem.*, 1971, **10**, 1673 (synth)

Dombek, B.D. *et al*, *Inorg. Chim. Acta*, 1973, **7**, 345 (synth, ir, pmr)

Bancroft, G.M. *et al*, *Can. J. Chem.*, 1974, **52**, 782 (mössbauer, ir, pmr)

Schmidt, E. *et al*, *J. Organomet. Chem.*, 1981, **220**, 87 (synth)

C₁₂H₁₀FeO₂⁺

Fe-00847

(η⁶-Benzene)[(1,2,3,4,5-η)-2,4-cyclopentadien-1-yl]carboxylic acid]iron(1+)

(η⁶-Benzene)[(1,2,3,4,5-η)-1-carboxy-2,4-cyclopentadien-1-yl]iron(1+)

As (η⁶-Benzene)(η⁵-1-chloro-2,4-cyclopentadien-1-yl)-iron(1+), Fe-00703 with

X = COOH

M 242.057 (ion)

pK_a 3.53 (50% EtOH, 25°).

Hexafluorophosphate: [12301-30-3].

C₁₂H₁₀F₆FeO₂P M 387.021

Mp 210-5° dec.

Et ester, tetraphenylborate: (η⁶-Benzene)[(1,2,3,4,5,6-η)-1-(ethoxycarbonyl)-2,4-cyclopentadien-1-yl]iron(1+) tetraphenylborate, 9Cl.

C₃₈H₃₄BF₄FeO₂ M 589.342

Mp 212-3°.

Nitrile: See (η⁶-Benzene)[(1,2,3,4,5-η)-1-cyano-2,4-cyclopentadien-1-yl]iron(1+), Fe-00844

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1967, **177**, 1110 (synth)

Buet, A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1979, 447 (polarog)

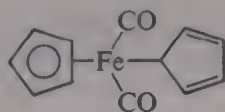
Roman, E. *et al*, *Tetrahedron Lett.*, 1979, 1433 (synth)

Moinet, C. *et al*, *CA*, 1981, **95**, 51712 (polarog)

C₁₂H₁₀FeO₂

Fe-00848

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)-2,4-cyclopentadien-1-yliron, 9Cl
σ-Cyclopentadienyl-π-cyclopentadienyldicarbonyliron
[12247-96-0]



M 242.057

Fluxional. Red monoclinic prisms or orange cryst. (pentane). Mp 47-8°. Bp_{0.001} 25° subl.

Piper, T.S. *et al*, *J. Inorg. Nucl. Chem.*, 1956, **3**, 104 (*synth*, *ir*, *pmr*)

Cotton, F.A. *et al*, *J. Am. Chem. Soc.*, 1966, **88**, 4371 (*struct*, *pmr*)

Campbell, C.H. *et al*, *J. Chem. Soc. (A)*, 1970, 1318 (*pmr*)

Grishin, Y.K. *et al*, *J. Organomet. Chem.*, 1972, **34**, 105; *Org. Magn. Reson.*, 1972, **4**, 377 (*cmr*, *nmr*)

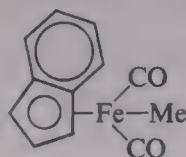
Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1974, **217**, 509 (*synth*)

Fabian, B.D. *et al*, *J. Organomet. Chem.*, 1980, **191**, 409 (*pe*)

C₁₂H₁₀FeO₂

Fe-00849

Dicarbonyl[(1,2,3,3a,7a-η)-1H-inden-1-yl]methyliron, 10Cl
[71498-19-6]



M 242.057

Yellow-brown oil.

King, R.B. *et al*, *Inorg. Chem.*, 1965, **4**, 475 (*synth*, *pmr*)

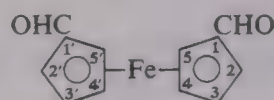
C₁₂H₁₀FeO₂

Fe-00850

1,1'-Ferrocenedicarboxaldehyde

1,1'-Di-formylferrocene, 9Cl. Bis(formyl-π-cyclopentadienyl)iron

[1271-48-3]



M 242.057

Bright-red needles (cyclohexane). Mp 183-4°.

Osgerby, J.M. *et al*, *J. Chem. Soc.*, 1961, 4604 (*synth*)

Abramovitch, R.A. *et al*, *Inorg. Chem.*, 1975, **14**, 3085 (*mössbauer*)

C₁₂H₁₀FeO₂

Fe-00851

1,2-Ferrocenedicarboxaldehyde

1,2-Di-formylferrocene. π-Cyclopentadienyl-(1,2-di-formyl-π-cyclopentadienyl)iron

[12093-78-6]

M 242.057

Red needles (pentane). Mp 170-2°.

Tirouflet, J. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1966, **262**, 1889 (*synth*)

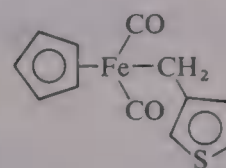
Marr, G. *et al*, *J. Organomet. Chem.*, 1969, **16**, 141 (*synth*, *pmr*)

C₁₂H₁₀FeO₂S

Fe-00852

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(3-thiophenylmethyl)-iron

Dicarbonyl-π-cyclopentadienyl-3-thienyliron, 8Cl



M 274.117

Red-brown liq.

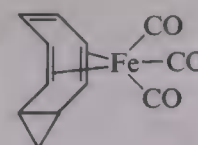
King, R.B. *et al*, *Inorg. Chem.*, 1969, **8**, 2535 (*synth*, *ir*, *pmr*)

C₁₂H₁₀FeO₃

Fe-00853

[(2,3,6,7-η)-Bicyclo[6.1.0]nona-2,4,6-triene]tricarbonyliron, 9Cl

[43140-14-3]



M 258.056

Yellow oil.

Reardon, E.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 4311 (*synth*, *pmr*)

Airoldi, M. *et al*, *Inorg. Chim. Acta*, 1976, **20**, L5.

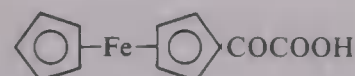
Salzer, A. *et al*, *J. Organomet. Chem.*, 1978, **161**, 39.

C₁₂H₁₀FeO₃

Fe-00854

2-Ferrocenyl-2-oxoacetic acid

Ferrocenoylformic acid. Carboxycarbonylferrocene. 2-Ferrocenyl-2-oxoethanoic acid



M 258.056

Free acid not known.

Me ester: (Methoxycarbonylcarbonyl)ferrocene.

C₁₃H₁₂FeO₃ M 272.083

Dark-red plates. Mp 65-8°. Bp_{0.4} 115-25°.

Me ester, 2,4-dinitrophenylhydrazone: Black solid. Mp 226-7°.

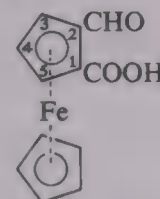
Goldberg, S.I. *et al*, *J. Chem. Eng. Data*, 1964, **9**, 250 (*synth*, *uv*, *ir*)

C₁₂H₁₀FeO₃

Fe-00855

2-Formyl-1-ferrocenecarboxylic acid

1-Carboxy-2-formylferrocene



M 258.056

(1R)-form

Me ester: [38768-41-1]. 1-Formyl-2-(methoxycarbonyl)-ferrocene, 9Cl.

C₁₃H₁₂FeO₃ M 272.083

[α]_D -384° (c, 0.6 in EtOH).

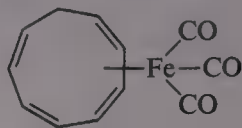
Me ester, semicarbazone: Cryst. (CHCl₃). Mp 210° dec.

Shirafuji, T. *et al*, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 2884 (*synth*, *pmr*, *ord*, *cd*, *ir*)

C₁₂H₁₀FeO₃

Fe-00856

Tricarbonyl[(1,2,3,4- η)-1,3,5,7-cyclononatetraene]iron, 9Cl
[43140-13-2]



M 258.056

Orange-yellow cryst. Mp 36-7°. Rearr. at 100° to Tricarbonyl[(4,5,6,7- η)-3a,7a-dihydro-1H-indene]iron, Fe-00858.

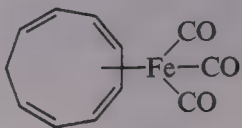
Deganello, G. *et al*, *J. Organomet. Chem.*, 1973, **60**, 323 (*synth*, *pmr*, *ir*, *ms*)

Reardon, E.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 4311 (*synth*, *pmr*, *ir*)

C₁₂H₁₀FeO₃

Fe-00857

Tricarbonyl[(3,4,5,6- η)-1,3,5,7-cyclononatetraene]iron, 9Cl
[51509-63-8]



M 258.056

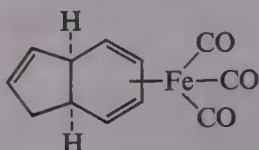
Orange-yellow oil. Contaminated with Tricarbonyl[(1,2,3,4- η)-1,3,5,7-cyclononatetraene]iron, Fe-00856.

Deganello, G. *et al*, *J. Organomet. Chem.*, 1973, **60**, 323 (*synth*)

C₁₂H₁₀FeO₃

Fe-00858

Tricarbonyl[(4,5,6,7- η)-3a,7a-dihydro-1H-indene]iron, 9Cl
(8,9-Dihydroindene)tricarbonyliron
[53584-93-3]



M 258.056

cis-form

Yellow oil or solid. Mp ca. 10°.

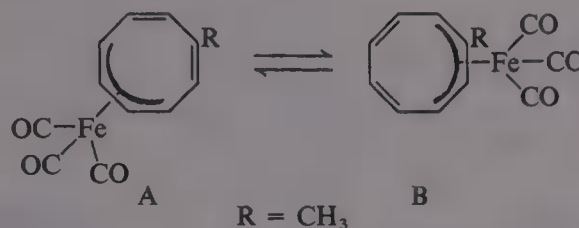
Deganello, G. *et al*, *J. Organomet. Chem.*, 1973, **60**, 323 (*synth*, *ir*, *pmr*, *ms*)

Reardon, E.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 4311 (*synth*, *ir*, *pmr*, *ms*)

C₁₂H₁₀FeO₃

Fe-00859

Tricarbonyl[(1,2,3,8- η)-1-methyl-1,3,5,7-cyclooctatetraene]iron, 9Cl
[56508-17-9]



M 258.056

Exhibits valence tautomerism with form B predominating in soln. at r.t. Red low-melting solid.

Keller, C.E. *et al*, *J. Am. Chem. Soc.*, 1966, **88**, 4760 (*pmr*)

Anet, F.A.L. *et al*, *J. Am. Chem. Soc.*, 1967, **89**, 2489, 2491 (*synth*, *ir*, *pmr*)

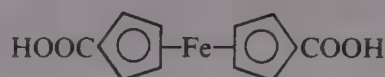
Paquette, L.A. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 4658 (*pmr*)

C₁₂H₁₀FeO₄

Fe-00860

1,1'-Ferrocenedicarboxylic acid

1,1'-Dicarboxyferrocene, 9Cl
[1293-87-4]



M 274.056

Orange-yellow cryst. (AcOH). Mp 250° dec.

Di-Me ester: [1273-95-6].

C₁₄H₁₄FeO₄ M 302.109

Cryst. (EtOH or pet. ether). Mp 114-5°.

Dichloride: 1,1'-Bis(chlorocarbonyl)ferrocene, 9Cl. 1,1'-Ferrocenedicarbonylchloride, 8Cl.

C₁₂H₈Cl₂FeO₂ M 310.947

Red cryst. (pet. ether). Mp 98-100°.

Diamide: [12089-37-1]. 1,1'-Bis(aminocarbonyl)ferrocene. 1,1'-Ferrocenedicarboxamide, 8Cl.

C₁₂H₁₂FeN₂O₂ M 272.086

Solid. Mp 275°.

Knobloch, F.W. *et al*, *J. Polymer Sci.*, 1961, **54**, 651 (*chloride*)

Okawara, M. *et al*, *Kogyo Kagaku Zasshi*, 1962, **65**, 685; *CA*, **58**, 577 (*synth*, *polymers*)

Dvoryantseva, G.G. *et al*, *Dokl. Akad. Nauk SSSR*, 1966, **169**, 1085; *CA*, **66**, 15276 (*pmr*)

Petrovitch, P., *Double Liaison*, 1966, No. 133, 1093; *CA*, **68**, 29843 (*synth*)

Rausch, M.D. *et al*, *J. Organomet. Chem.*, 1967, **10**, 127 (*synth*)

Golubeva, I.A. *et al*, *CA*, 1968, **68**, 87384 (*deriv*, *synth*)

Perjessy, A. *et al*, *Chem. Zvesti*, 1969, **23**, 533; *CA*, **72**, 78112 (*ir*)

Haworth, D.T. *et al*, *J. Chromatogr. Sci.*, 1976, **14**, 519 (*hplc*)

Takusagawa, F. *et al*, *Acta Crystallogr., Sect. B*, 1979, **35**, 2888 (*cryst struct*)

C₁₂H₁₀FeO₄

Fe-00861

1,2-Ferrocenedicarboxylic acid

1,2-Dicarboxyferrocene, 9Cl. [1,2-Bis(carboxy)- π -cyclopentadienyl]- π -cyclopentadienyliron

[51021-53-5]

M 274.056

Orange cryst. (CHCl₃). Mp 205-7° dec.

Roling, P.V. *et al*, *J. Org. Chem.*, 1974, **39**, 1420 (*synth*, *pmr*, *ir*)

C₁₂H₁₀FeO₄

Fe-00862

Tricarbonyl(1-acetyl-1,3,5-cycloheptatriene)iron

Tricarbonyl[1-[(3,4,5,6- η)-1,3,5-cycloheptatrien-1-yl]ethanone]iron, 9Cl. Tricarbonyl(1,3,5-cycloheptatrien-1-yl methyl ketone)iron, 8Cl

[36594-82-8]

As Tricarbonyl[(3,4,5,6- η)-1,3,5-cycloheptatriene-1-carboxaldehyde]iron, Fe-00682 with

M 274.056

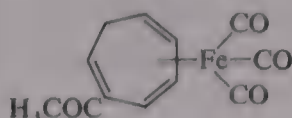
Yellow solid. Mp 88-9°. Bp_{0.05} 80°.Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 456 (*synth*, *pmr*, *ir*)C₁₂H₁₀FeO₄

Fe-00863

Tricarbonyl(2-acetyl-1,3,5-cycloheptatriene)iron

Tricarbonyl[1-[(3,4,5,6- η)-1,3,5-cycloheptatrien-2-yl]ethanone]iron, 10C1

[66615-42-7]



M 274.056

Orange oil.

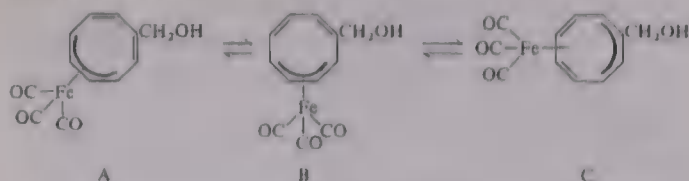
Cunningham, D. *et al*, *J. Chem. Soc., Dalton Trans.*, 1977, 2340 (*synth*, *pmr*, *ir*)C₁₂H₁₀FeO₄

Fe-00864

Tricarbonyl(1,3,5,7-cyclooctatetraene-1-methanol)iron, 9C1

Tricarbonyl(hydroxymethylcyclooctatetraene)iron

[11064-43-0]



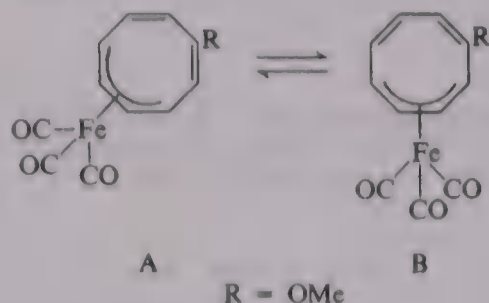
M 274.056

Exhibits valence tautomerism with form C predominating in soln. at r.t. Red oil. Bp_{0.05} 100°.Johnson, B.F.G. *et al*, *J. Chem. Soc. (A)*, 1971, 422 (*synth*, *ir*, *ms*, *pmr*)Alsop, J.E. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1686 (*ms*)
Paquette, L.A. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 4658 (*pmr*)C₁₂H₁₀FeO₄

Fe-00865

Tricarbonyl[(1,2,3,8- η)-1-methoxy-1,3,5,7-cyclooctatetraene]iron, 9C1

[61812-29-1]

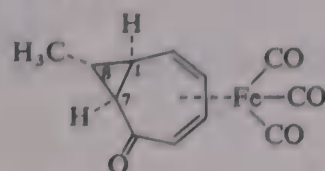


R = OMe

M 274.056

Exhibits valence tautomerism in soln. at r.t. Dark-red needles (pentane). Mp 46-46.5°. Bp_{0.1} 40° subl.Paquette, L.A. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 4658 (*synth*, *ir*, *pmr*)Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 1874 (*synth*, *pmr*, *ir*)C₁₂H₁₀FeO₄

Fe-00866

Tricarbonyl[(3,4,5,6- η)-8-methylbicyclo[5.1.0]octa-3,5-dien-2-one]iron, 9C1(1 α , 7 α , 8 α)-form

M 274.056

(1 α , 7 α , 8 α)-form [57407-43-9]

exo-methyl-form

Orange cryst. Mp 86°.

(1 α , 7 α , 8 β)-form [57457-36-0]

endo-methyl-form

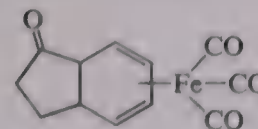
Minor isomer, not fully descr.

Franck-Neumann, M. *et al*, *Tetrahedron Lett.*, 1975, 1759 (*synth*, *ir*)C₁₂H₁₀FeO₄

Fe-00867

Tricarbonyl[(4,5,6,7- η)-2,3,3a,7a-tetrahydro-1H-inden-1-one]iron, 10C1

[56508-18-0]



M 274.056

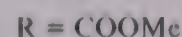
Eisenstadt, A., *Tetrahedron Lett.*, 1976, 3543 (*synth*)C₁₂H₁₀FeO₅

Fe-00868

Tricarbonyl[(2,3,5,6- η)-methyl bicyclo[2.2.1]hepta-2,5-diene-2-carboxylate]iron, 9C1

Tricarbonyl(2-carbomethoxybicyclo[2.2.1]hepta-2,5-diene)iron

[42183-79-9]

As [(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene-2-carboxaldehyde]tricarboxyliron, Fe-00679 with

M 290.055

Yellow powder (pet. ether). Mp 46.5-47°.

Graf, R.E. *et al*, *J. Organomet. Chem.*, 1976, **122**, 377 (*synth*, *pmr*, *ir*, *ms*)C₁₂H₁₀Fe₂N₄O₄S₂

Fe-00869

Bis(μ -benzenethiolato)tetranitrosyldiironTetranitrosyldiphenyldi- μ -thioxodiiron, 9C1

[15696-38-5]

As Tetranitrosylbis(trifluoromethanethiolato)diiron, Fe-00005 with



M 450.049

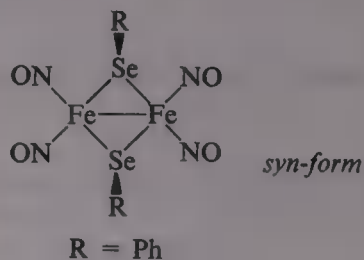
Exists as a mixt. of *syn*- and *anti*-isomers in soln. Black leaflets (C₆H₆). Mp 179°.Hofmann, K. *et al*, *Z. Anorg. Allg. Chem.*, 1895, **9**, 295 (*synth*)Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1965, **335**, 250 (*synth*)Rauchfuss, T.B. *et al*, *Inorg. Chem.*, 1982, **21**, 827 (*ir*, *pmr*, *ms*)

C₁₂H₁₀Fe₂N₄O₄Se₂

Fe-00870

Hall, D.W. *et al*, *J. Org. Chem.*, 1963, **28**, 1549 (*synth*)

Bis(μ-benzeneselenolato)tetranitrosyldiiron
[79919-43-0]



M 543.849

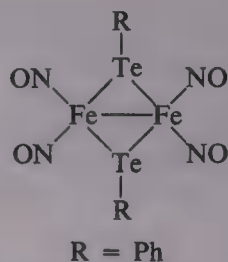
Exists as a mixt. of *syn*- and *anti*-isomers in soln. Brown cryst. (CH₂Cl₂/MeOH).

Rauchfuss, T.B. *et al*, *Inorg. Chem.*, 1982, **21**, 827 (*synth*, *ir*, *pmr*, *ms*)

C₁₂H₁₀Fe₂N₄O₄Te₂

Fe-00871

Bis(μ-benzenetellurolato)tetranitrosyldiiron
[79919-45-2]



M 641.129

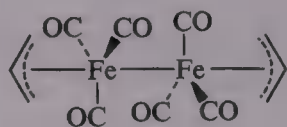
Red-brown cryst.

Rauchfuss, T.B. *et al*, *Inorg. Chem.*, 1982, **21**, 827 (*synth*, *ir*, *pmr*, *ms*)

C₁₂H₁₀Fe₂O₆

Fe-00872

Hexacarbonylbis(η³-2-propenyl)diiron, 9Cl
Di-π-allylhexacarbonyldiiron
[75936-43-5]



M 361.901

Red solns. in aliphatic hydrocarbons become green on dilution as Tricarbonyl(η³-2-propenyl)iron, Fe-00124 is produced. Air-sensitive dark-red garnet-like cryst. (pentane).

Murdoch, H.D. *et al*, *Helv. Chim. Acta*, 1964, **47**, 1517 (*synth*, *ir*)

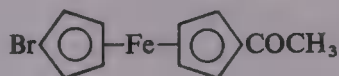
Andrews, D.G. *et al*, *J. Organomet. Chem.*, 1977, **124**, 181 (*ir*)
Putnik, C.F. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 4107 (*synth*, *struct*)

VanDerveer, M.C. *et al*, *J. Organomet. Chem.*, 1980, **197**, 357 (*synth*, *ir*)

C₁₂H₁₁BrFeO

Fe-00873

1-Acetyl-1'-bromoferrocene, 9Cl
[12088-99-2]



M 306.969

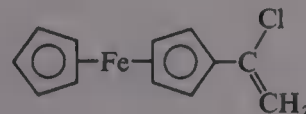
Mp 61.5-63°.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1961, **137**, 102 (*synth*)

C₁₂H₁₁ClFe

Fe-00874

(1-Chloroethenyl)ferrocene, 9Cl
1-Chloro-1-ferrocenylethylene
[1291-46-9]



M 246.519

Unstable yellow cryst. which are v. highly reactive and cannot be fully characterised. Mp 43°.

Schlögl, K. *et al*, *Monatsh. Chem.*, 1965, **96**, 1520 (*synth*)

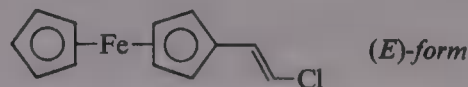
Rosenblum, M. *et al*, *J. Organomet. Chem.*, 1966, **6**, 173 (*synth*)

Abram, T.S. *et al*, *Synth. React. Inorg. Metal-Org. Chem.*, 1976, **6**, 31 (*synth*)

C₁₂H₁₁ClFe

Fe-00875

(2-Chloroethenyl)ferrocene, 9Cl
1-Chloro-2-ferrocenylethylene. (2-Chlorovinyl)-ferrocene



M 246.519

(*E*)-form [37473-25-9]

Oil or low-melting solid. Mp 46-8°.

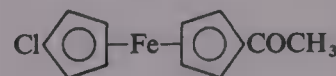
Schlögl, K. *et al*, *Monatsh. Chem.*, 1963, **94**, 376 (*synth*)

Eisenstadt, A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1972, 216 (*synth*, *pmr*, *ir*)

C₁₂H₁₁ClFeO

Fe-00876

1-Acetyl-1'-chloroferrocene, 9Cl
[1293-88-5]



M 262.518

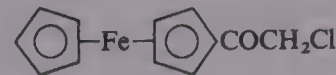
Mp 53-5°.

Hall, D.W. *et al*, *J. Org. Chem.*, 1963, **28**, 1549.

C₁₂H₁₁ClFeO

Fe-00877

(Chloroacetyl)ferrocene, 9Cl
2-Chloro-1-ferrocenylethanone
[51862-24-9]



M 262.518

Orange needles (C₆H₆/pet. ether). Mp 92-3°.

Schlögl, K., *Monatsh. Chem.*, 1957, **88**, 601 (*synth*)

Elecko, P. *et al*, *Chem. Zvesti.*, 1974, **28**, 94 (*synth*)

Pannell, K.H. *et al*, *Org. Mass. Spectrom.*, 1975, **10**, 550 (*ms*)

Rimmelin, P. *et al*, *J. Organomet. Chem.*, 1976, **114**, 175 (*pmr*)

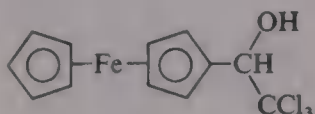
C₁₂H₁₁Cl₃FeO

Fe-00878

(2,2,2-Trichloro-1-hydroxyethyl)ferrocene, 9Cl

Cyclopentadienyl[(2,2,2-trichloro-1-hydroxyethyl)cyclopentadienyl]iron. 2,2,2-Trichloro-1-ferrocenylethanol

[12129-62-3]



M 333.424

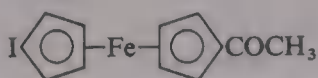
Brown-red solid. Mp 150°.

Furdik, M. *et al*, *Chem. Zvesti*, 1964, **18**, 607 (*synth*)Eisenstadt, A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1972, 216.C₁₂H₁₁FeIO

Fe-00879

1-Acetyl-1'-iodoferrocene, 9Cl

[36348-35-3]



M 353.970

Orange cryst. (MeOH aq.). Mp 51-2°.

Kovar, R.F. *et al*, *J. Organomet. Chem.*, 1972, **35**, 351 (*synth*, *ir*, *pmr*)C₁₂H₁₁FeIO

Fe-00880

1-Acetyl-2-iodoferrocene, 9Cl

[36348-34-2]

M 353.970

Orange cryst. (MeOH aq.).

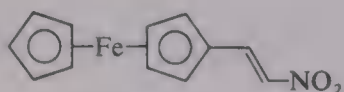
Kovar, R.F. *et al*, *J. Organomet. Chem.*, 1972, **35**, 351 (*synth*, *ir*, *pmr*)C₁₂H₁₁FeNO₂

Fe-00881

(2-Nitroethenyl)ferrocene, 9Cl

1-Ferrocenyl-2-nitroethylene

[12146-58-6]



M 257.071

(E)-form [32985-16-3]

Violet cryst. (EtOH) or brown needles (hexane). Mp 139-40°.

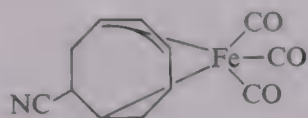
Dahle, P. *et al*, *Experientia*, 1965, **21**, 648 (*synth*, *ir*)Shiga, M. *et al*, *Bull. Chem. Soc. Jpn.*, 1968, **41**, 1897 (*synth*)Nesmeyanov, A.N. *et al*, *Zh. Strukt. Khim.*, 1973, **14**, 49 (*cmr*)C₁₂H₁₁FeNO₃

Fe-00882

Tricarbonyl[(1,4,5,6-η)-8-cyano-5-cyclooctene-1,4-diyl]iron, 9Cl

Tricarbonyl[4,5,6-η,1-σ-(2-cyanocyclooctenyl)]iron

[55938-88-0]



M 273.071

Struct. uncertain. White cryst. Mp 120°.

Deeming, A.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 2093 (*synth*, *pmr*, *ir*)Schiavon, G. *et al*, *J. Organomet. Chem.*, 1981, **210**, 247.C₁₂H₁₁FeO₂⁺

Fe-00883

[(1,2,3,4,5,6-η)-Benzoic acid](η⁵-2,4-cyclopentadien-1-yl)-iron(1+)

[32984-28-4]

As (η⁶-Bromobenzene)(η⁵-2,4-cyclopentadien-1-yl)-iron(1+), Fe-00702 with

X = COOH

M 243.065 (ion)

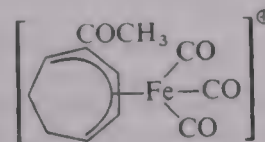
Salts of this compd. are named as derivs. of the zwitterion in 10Cl. pK_a 3.05 (50% EtOH, 25°).Hexafluorophosphate: [12288-80-1]. [(1,2,3,4,5,6-η)-Benzoato](η⁵-2,4-cyclopentadien-1-yl)iron(1+) compd. with HPF₆(1:1), 10Cl.C₁₂H₁₁F₆FeO₂P M 388.029Orange-yellow powder (Me₂CO/Et₂O). Mp 200-5° dec.Me ester, tetrafluoroborate: [59676-12-9]. (η⁵-2,4-Cyclopentadien-1-yl)[1,2,3,4,5,6-η]-methyl benzoate]iron(1+) tetrafluoroborate.C₁₃H₁₃BF₄FeO₂ M 343.895Bright-yellow solid (Me₂CO/Et₂O). Mp 134-6°.Et ester, tetraphenylborate: (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6-η)-ethyl benzoate]iron(1+) tetraphenylborate.C₃₈H₃₅BF₄FeO₂ M 590.350Cryst. (Me₂CO). Mp 220-1° dec.

Amide, hexafluorophosphate: [12288-82-3].

[(1,2,3,4,5,6-η)-Benzamide](η⁵-2,4-cyclopentadien-1-yl)iron(1+) hexafluorophosphate.C₁₂H₁₂F₆FeNOP M 387.044Cryst. (Me₂CO/EtOH). Mp 194.5-195.5°.Nitrile: See [(1,2,3,4,5,6-η)-Benzonitrile](η⁵-2,4-cyclopentadien-1-yl)iron(1+), Fe-00845Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1967, 1170 (*synth*)McGreer, J.F. *et al*, *J. Organomet. Chem.*, 1976, **110**, 103 (*derivs*, *pmr*)Moinet, C. *et al*, *CA*, 1981, **95**, 51712 (*polarog*)C₁₂H₁₁FeO₄⁺

Fe-00884

[(1,2,3,4,5-η)-2-Acetyl-2,4-cycloheptadien-1-yl]tricarbonyliron(1+), 9Cl



M 275.064 (ion)

Hexafluorophosphate: [66615-43-8].

C₁₂H₁₁F₆FeO₄P M 420.028

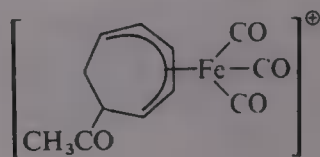
Characterised spectroscopically.

Cunningham, D., *J. Chem. Soc., Dalton Trans.*, 1977, 2340 (*synth*, *pmr*)

C₁₂H₁₁FeO₄⁺

Fe-00885

[(1,2,3,4,5- η)-6-Acetyl-2,4-cycloheptadien-1-yl]tricarbonyliron(1+), 9Cl
(Acetyl- π -cycloheptadienylium)tricarbonyliron(1+)



M 275.064 (ion)

Hexafluorophosphate: [32732-66-4].

C₁₂H₁₁F₆FeO₄P M 420.028

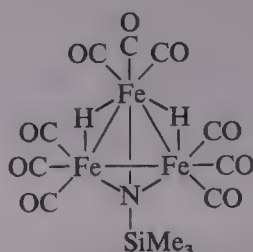
Pale-yellow solid. Mp 120° dec.

Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 456
(*synth*, *pmr*, *ir*)

C₁₂H₁₁Fe₃NO₉Si

Fe-00886

Nonacarbonyldi- μ -hydro[μ_3 -[1,1,1-trimethylsilanaminato(2-)]]triiron, 9Cl
[60342-08-7]



M 508.847

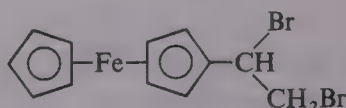
Black cryst. (toluene). Mp 110° dec.

Fischler, I. *et al*, *J. Organomet. Chem.*, 1976, **112**, 155 (*synth*,
pmr, *ms*, *ir*)

C₁₂H₁₂Br₂Fe

Fe-00887

(1,2-Dibromoethyl)ferrocene
1,2-Dibromo-1-ferrocenylethane



M 371.882

(±)-form

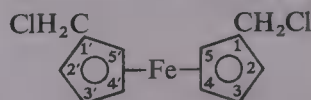
Yellow cryst. (pentane). Mp 63-4°. Dec. at r.t., stable at
-78°.

Benkeser, R.A. *et al*, *J. Org. Chem.*, 1961, **26**, 4179 (*synth*)

C₁₂H₁₂Cl₂Fe

Fe-00888

1,1'-Bis(chloromethyl)ferrocene, 10Cl
Bis(η^5 -chloromethylcyclopentadienyl)iron
[32677-73-9]



M 282.980

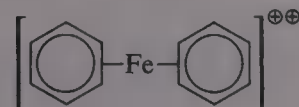
Yellow cryst. (hexane). Mp 97-8°.

Sonoda, A. *et al*, *J. Organomet. Chem.*, 1971, **26**, 133 (*synth*, *ir*)
Tverdokhlebov, N.Yu. *et al*, *Zh. Org. Khim.*, 1980, **16**, 46
(*synth*)

C₁₂H₁₂Fe²⁺

Fe-00889

Bis(η^6 -benzene)iron(2+), 10Cl
[51263-22-0]



M 212.074 (ion)

Bis(hexafluorophosphate): [11108-19-3].

C₁₂H₁₂F₁₂FeP₂ M 502.002

Pale-orange solid. Mp 145-52° dec.

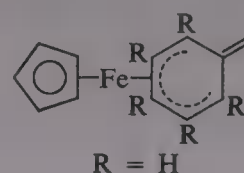
Helling, J.F. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 930
(*synth*, *pmr*, *ir*)

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1977, **236**, 1130 (*synth*, *pmr*)

C₁₂H₁₂Fe

Fe-00890

(η^5 -2,4-Cyclopentadien-1-yl)((1,2,3,4,5- η)-6-methylene-2,4-cyclohexadien-1-yl)iron, 10Cl
[72576-18-2]



M 212.074

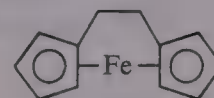
Generated and reacted *in situ*. Characterised spectroscopically.

Sutherland, R.G. *et al*, *J. Organomet. Chem.*, 1979, **181**, 411.

C₁₂H₁₂Fe

Fe-00891

1,1'-(1,2-Ethanediy)ferrocene
1,1'-Ethyleneferrocene, 8Cl. [2]Ferrocenophane. 1,1'-Dimethyleneferrocene
[31868-87-8]



M 212.074

Red, sublimable solid. Mp 104-7°.

Spilners, I.J. *et al*, *Org. Mass Spectrom.*, 1970, **3**, 915 (*ms*)

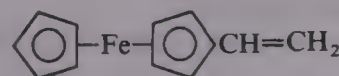
Lentzner, H.L. *et al*, *Tetrahedron*, 1971, **27**, 4343 (*synth*, *props*,
uv, *ir*, *pmr*)

Gorton, J.E. *et al*, *Tetrahedron*, 1971, **27**, 4353 (*polarog*)

C₁₂H₁₂Fe

Fe-00892

Vinylferrocene
Ethenylferrocene, 9Cl. Ferrocenylethylene
[1271-51-8]



M 212.074

Orange cryst. Mp 51-52.5°. Bp_{0.2} 80-5°.

Horspool, W.H. *et al*, *Can. J. Chem.*, 1968, **46**, 3453 (*synth*,
pmr)

Rausch, M.D. *et al*, *J. Organomet. Chem.*, 1968, **11**, 317 (*synth*,
pmr)

Kasahara, A. *et al*, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 895 (*synth*,
pmr)

Nesmeyanov, A.N. *et al*, *Zh. Strukt. Khim.*, 1973, **14**, 49 (*cmr*)
Berger, K.R. *et al*, *J. Org. Chem.*, 1974, **39**, 477 (*synth*)

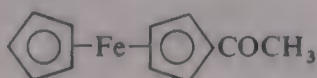
C₁₂H₁₂FeO

Fe-00893

Acetylferrocene, 9Cl

Ferrocenyl methyl ketone

[1271-55-2]



M 228.073

Orange cryst. (heptane). Mp 85-6°.

▷OB3700000.

Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 2749 (*ir*)
 Graham, P.J. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 3416 (*synth*)
 Broadhead, G.D. *et al*, *J. Chem. Soc.*, 1958, 650 (*synth*)
 Mulay, L.N. *et al*, *J. Inorg. Nucl. Chem.*, 1960, **16**, 23 (*pmr*)
 Lundquist, R.T. *et al*, *J. Org. Chem.*, 1962, **27**, 1167 (*uv*)
Org. Reactions, 1969, **17**, 1 (*synth*)
 Braun, S. *et al*, *J. Organomet. Chem.*, 1975, **97**, 429 (*cmr*)

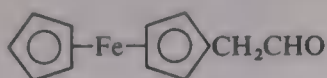
C₁₂H₁₂FeO

Fe-00894

Ferrocenylacetaldehyde

(2-Oxoethyl)ferrocene, 9Cl. 2-Ferrocenylethanal

[36731-63-2]



M 228.073

Viscous yellow oil. Dec. after 2 days in air, giving a brown powder.

Semicarbazone: Cryst. (MeOH). Mp 187-8°.

Weygand, F. *et al*, *Angew. Chem.*, 1953, **65**, 523 (*synth*)
 Sevenair, J.P. *et al*, *J. Org. Chem.*, 1972, **37**, 4061 (*synth*, *ir*, *pmr*)

C₁₂H₁₂FeO

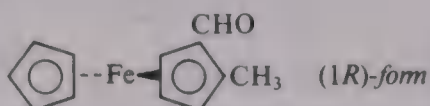
Fe-00895

1-Formyl-2-methylferrocene

2-Methylferrocenecarboxaldehyde, 8Cl.

α-Methylferrocenealdehyde

[12214-95-8]



M 228.073

(1R)-form [12126-66-8]

Oil. Bp_{0.01} 95-100°. [α]_D +225° (c, 0.76 in EtOH), [α]_D +22° (c, 1.4 in C₆H₆). [α]_D +220° (c, 0.5 in EtOH).

(1S)-form [33010-90-1]

Bp_{0.15} ~140°. [α]_D²⁰ -72° (c, 2.5 in EtOH), [α]_D²⁰ -166.5° (c, 0.76 in EtOH).

(±)-form

Brown-red solid. Mp 37-42°.

Semicarbazone: Cryst. (EtOH aq.). Mp 184-7°.

Schlögl, K. *et al*, *Monatsh. Chem.*, 1964, **95**, 558, 576; 1966, **97**, 1029; 1967, **98**, 82, 592, 603 (*synth*, *resoln*, *pmr*)

Aratani, T. *et al*, *Tetrahedron*, 1970, **26**, 5453 (*synth*)Moise, C. *et al*, *Bull. Soc. Chim. Fr.*, 1971, 4562 (*synth*)

Sokolov, V.I. *et al*, *J. Organomet. Chem.*, 1979, **182**, 537 (*synth*, *pmr*)

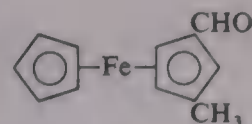
C₁₂H₁₂FeO

Fe-00896

1-Formyl-3-methylferrocene, 9Cl

3-Methylferrocenecarboxaldehyde

[12214-96-9]



M 228.073

Mp 37-42°.

Schlögl, K. *et al*, *Monatsh. Chem.*, 1964, **95**, 558; 1967, **98**, 82 (*synth*, *pmr*)

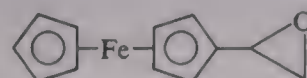
C₁₂H₁₂FeO

Fe-00897

Oxiranylferrocene, 9Cl

2-Ferrocenyloxirane

[52456-02-7]



M 228.073

Synth. not authenticated. No phys. props. recorded.

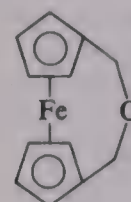
Schlögl, K. *et al*, *Monatsh. Chem.*, 1963, **94**, 376.Schlögl, K. *et al*, *J. Organomet. Chem.*, 1964, **2**, 398.U.S.P., 3 762 969, (1973); CA, **80**, 61706 (*use*)C₁₂H₁₂FeO

Fe-00898

1,1'-[Oxybis(methylene)]ferrocene, 9Cl

2-Oxa[3]ferrocenophane. 7-Oxa[3]ferrocenophane

[12126-67-9]



M 228.073

Orange-yellow plates (hexane). Mp 147-8°.

Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 4111 (*synth*, *pmr*)

Yamakawa, K. *et al*, *J. Organomet. Chem.*, 1973, **52**, 407 (*synth*, *pmr*)

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1974, **218**, 1107 (*cmr*, *pmr*)

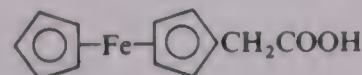
C₁₂H₁₂FeO₂

Fe-00899

Ferroceneacetic acid

(Carboxymethyl)ferrocene, 9Cl. Ferrocenylethanoic acid

[1287-16-7]



M 244.073

Golden flakes. Mp 152-6°. Sublimes *in vacuo*.

Me ester:

C₁₃H₁₄FeO₂ M 258.099

Orange cryst. (hexane). Mp 20-1°.

Nitrile: [1316-91-2]. (Cyanomethyl)ferrocene. Ferrocenylacetoneitrile. Ferrocenyl methyl cyanide.

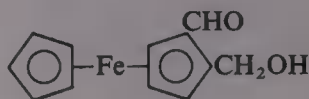
C₁₂H₁₁FeN M 225.073

Yellow leaflets (ligroin). Mp 85°.

Lednicer, D. *et al*, *J. Org. Chem.*, 1958, **23**, 653 (*synth*)Osgerby, J.M. *et al*, *J. Chem. Soc.*, 1958, 656 (*synth*, *deriv*)

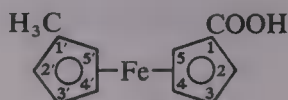
Perevalova, E.G. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1963, 1967 (*synth*)
 Roberts, D.T. *et al*, *J. Am. Chem. Soc.*, 1967, **89**, 6156 (*synth*)
Org. Synth., Coll. Vol., **5**, 578.

C₁₂H₁₂FeO₂ **Fe-00900**
2-Hydroxymethylferrocenecarboxaldehyde
1-Formyl-2-(hydroxymethyl)ferrocene, 9Cl
 [12126-11-3]



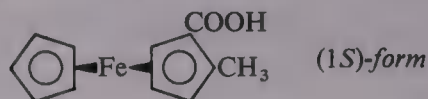
M 244.073
 Orange-red cryst. (pentane). Mp 87-8°.
 Marr, G. *et al*, *J. Organomet. Chem.*, 1969, **16**, 141 (*synth*, *pmr*)
 Goldberg, S.I. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 6381 (*synth*)

C₁₂H₁₂FeO₂ **Fe-00901**
1'-Methylferrocenecarboxylic acid
1-Carboxy-1'-methylferrocene, 9Cl
 [12126-12-4]



M 244.073
 Orange-yellow cryst. (MeOH aq. or Et₂O). Mp 148-50°.
Me ester: 1-Methoxycarbonyl-1'-methylferrocene.
 C₁₃H₁₄FeO₂ M 258.099
 Solid. Mp 35-7°.
 Schlögl, K. *et al*, *Monatsh. Chem.*, 1964, **95**, 558; 1967, **98**, 82, 592 (*synth*, *pmr*)
 Rapic, V. *et al*, *J. Organomet. Chem.*, 1975, **94**, 87 (*synth*)
 Schmidt, G. *et al*, *Tetrahedron Lett.*, 1975, 3689 (*synth*)

C₁₂H₁₂FeO₂ **Fe-00902**
2-Methylferrocenecarboxylic acid
1-Carboxy-2-methylferrocene, 9Cl

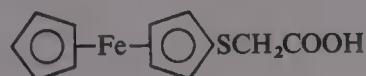


M 244.073
(1S)-form [12241-80-4]
(R)planar-form
 Mp 158° dec. [α]_D +53° (c, 0.5 in EtOH).
Me ester: 1-Carbomethoxy-2-methylferrocene.
 C₁₃H₁₄FeO₂ M 258.099
 Yellow oil. [α]_D²⁰ -24.5° (c, 0.1 in C₆H₆).
Nitrile: 1-Cyano-2-methylferrocene.
 C₁₂H₁₁FeN M 225.073
 Mp 37-43°. [α]_D²⁰ -37.0° (c, 0.1 in C₆H₆).
(±)-form [12214-99-2]
 Orange cryst (MeOH aq.). Mp 158-60°.
 Schlögl, K. *et al*, *Monatsh. Chem.*, 1964, **95**, 558 (*synth*)
 Falk, H. *et al*, *Monatsh. Chem.*, 1966, **97**, 1029; 1967, **98**, 603 (*synth*, *resoln*)
 Lehner, H. *et al*, *Monatsh. Chem.*, 1970, **101**, 895.
 Slocum, D.W. *et al*, *J. Org. Chem.*, 1973, **38**, 1677 (*synth*, *ir*, *pmr*)
 Schlögl, K. *et al*, *Monatsh. Chem.*, 1977, **108**, 767 (*synth*, *ir*, *pmr*)
 Sokolov, V.I. *et al*, *J. Organomet. Chem.*, 1979, **182**, 537 (*synth*)

C₁₂H₁₂FeO₂ **Fe-00903**
3-Methylferrocenecarboxylic acid
1-Carboxy-3-methylferrocene, 9Cl
 [12214-98-1]
 M 244.073
 Cryst. (MeOH aq.). Mp 159-61°.
Me ester: 1-Methoxycarbonyl-3-methylferrocene.
 C₁₃H₁₄FeO₂ M 258.099
 Solid. Mp 64-5°.

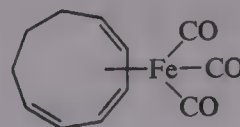
Schlögl, K. *et al*, *Monatsh. Chem.*, 1964, **95**, 558; 1967, **98**, 82, 592 (*synth*, *pmr*)
 Rapic, V. *et al*, *J. Organomet. Chem.*, 1975, **94**, 87 (*synth*)

C₁₂H₁₂FeO₂S **Fe-00904**
[(Carboxymethyl)thio]ferrocene, 9Cl
(S-Ferrocenyl)thioglycollic acid. (*Ferrocenylthio*)acetic acid
 [52201-95-3]



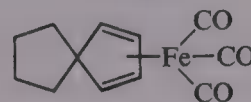
M 276.133
 Sl. hygroscopic orange-yellow rods (ligroin). Mp 110.5°.
 Knox, G.R. *et al*, *J. Chem. Soc.*, 1958, 692 (*synth*)

C₁₂H₁₂FeO₃ **Fe-00905**
Tricarbonyl[(1,2,3,4-η)-1,3,5-cyclononatriene]iron, 10Cl
 [69041-49-2]



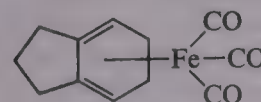
M 260.072
 Orange cryst. (hexane). Mp 45°.
 Salzer, A. *et al*, *J. Organomet. Chem.*, 1978, **161**, 39 (*synth*, *ir*, *cmr*)

C₁₂H₁₂FeO₃ **Fe-00906**
Tricarbonyl[(1,2,3,4-η)-spiro[4.4]nona-1,3-diene]iron, 9Cl
 [12282-42-7]



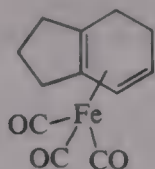
M 260.072
 Brown-yellow oil. Bp₂ 100°.
 Grant, G.F. *et al*, *J. Organomet. Chem.*, 1967, **9**, 553 (*synth*, *ir*, *pmr*)
 Eilbracht, P. *et al*, *Chem. Ber.*, 1980, **113**, 542 (*synth*, *ir*)

C₁₂H₁₂FeO₃ **Fe-00907**
Tricarbonyl[(3a,4,7,7a-η)-2,3,5,6-tetrahydro-1H-indene]iron, 10Cl
(Bicyclo[4.3.0]nona-1,5-diene)tricarbonyliron
 [79891-15-9]



M 260.072
 Birch, A.J. *et al*, *Tetrahedron Suppl.*, 1981, 289 (*synth*)

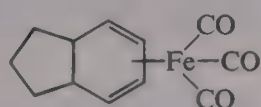
C₁₂H₁₂FeO₃ **Fe-00908**
Tricarbonyl[(3a,6,7,7a-η)-2,3,4,5-tetrahydro-1H-indene]iron, 10Cl
 (Bicyclo[4.3.0]nona-1(6),2-diene)tricarbonyliron
 [79891-14-8]



M 260.072

Birch, A.J. *et al*, *Tetrahedron Suppl.*, 1981, 289 (synth)

C₁₂H₁₂FeO₃ **Fe-00909**
Tricarbonyl[(4,5,6,7-η)-2,3,3a,7a-tetrahydro-1H-indene]iron, 10Cl
 (Bicyclo[4.3.0]nona-2,4-diene)tricarbonyliron
 [69041-50-5]

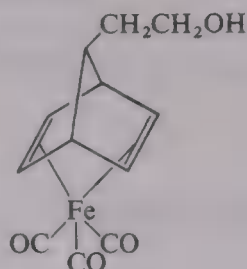


M 260.072

Bright-yellow oil or solid (hexane). Mp ca 10°.

Salzer, A. *et al*, *J. Organomet. Chem.*, 1978, **161**, 39 (synth, pmr, cmr, ir)

C₁₂H₁₂FeO₄ **Fe-00910**
2-[(2,3,5,6-η)-Bicyclo[2.2.1]hepta-2,5-dien-7-yl]ethanol]tricarbonyliron, 10Cl
 β-[7-(π-(Norbornadienyl)irontricarbonyl)]ethanol. [7-(2-Hydroxyethylnorbornadiene)]tricarbonyliron
 [72726-69-3]



M 276.071

Dark-brown oil.

Ac: [72726-71-7].

C₁₄H₁₄FeO₅ M 318.109

Yellow oil.

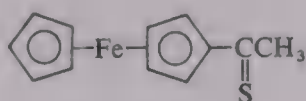
Methanesulfonyl: [72726-70-6].

C₁₃H₁₄FeO₆S M 354.157

Yellow microcryst. Mp 37-9°.

Bly, R.S. *et al*, *J. Org. Chem.*, 1980, **45**, 980 (synth, pmr, ir)

C₁₂H₁₂FeS **Fe-00911**
(1-Thioxoethyl)ferrocene, 10Cl
 Ferrocenyl methyl thioketone. Thioacetylferrocene.
 Methanecarbonothioylferrocene
 [70616-54-5]

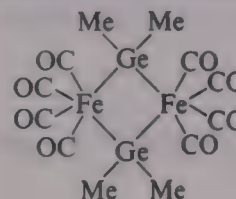


M 244.134

Cherry-red cryst. (hexane). Mp 39-40°.

Kursanov, D.S. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1979, 869 (synth, pmr, ir, ms)

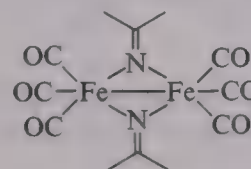
C₁₂H₁₂Fe₂Ge₂O₈ **Fe-00912**
Octacarbonylbis[μ-(dimethylgermylene)]diiron, 9Cl
 [15751-09-4]



M 541.096

Yellow or orange cryst. (hexane). Subl. *in vacuo*.Kahn, O. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1966, **262**, 906 (synth, ir)Marks, T.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 769 (synth, pmr, ir)Bonny, A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1978, 722 (synth, ir, pmr, ms)

C₁₂H₁₂Fe₂N₂O₆ **Fe-00913**
Hexacarbonylbis[μ-(2-propaniminato)]diiron, 9Cl
 [50986-63-5]

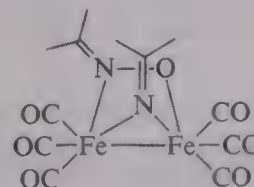


M 391.931

Orange-yellow needles (hexane). Mp 122-3° (111-3°).

Bp_{0.01} 70° subl.King, R.B. *et al*, *Inorg. Chem.*, 1974, **13**, 1339 (synth, ir, pmr, ms)Albini, A. *et al*, *J. Organomet. Chem.*, 1975, **94**, 75 (synth, ir, pmr, uv)

C₁₂H₁₂Fe₂N₂O₇ **Fe-00914**
Hexacarbonyl[μ-(2-propaniminato)][μ-(2-propanoneoximate-N:O)]diiron, 9Cl
 [50986-64-6]



M 407.930

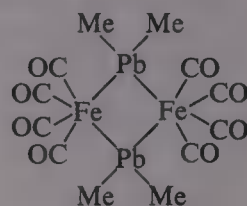
Orange cryst. (CH₂Cl₂/hexane). Mp 108-9°. Bp_{0.01} 70° subl.King, R.B. *et al*, *Inorg. Chem.*, 1974, **13**, 1339 (synth, ir, pmr, ms)Khare, G.P. *et al*, *Inorg. Chem.*, 1976, **15**, 86 (struct)

C₁₂H₁₂Fe₂O₈Pb₂

Fe-00915

Octacarbonylbis[μ-(dimethylplumbylene)]diiron, 8Cl

[29889-98-3]



M 810.316

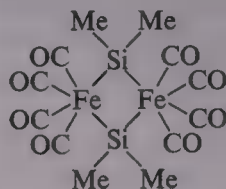
Red-brown solid. Mp 120-30° dec.

Hein, F. *et al*, *Z. Anorg. Allg. Chem.*, 1947, **254**, 138 (*synth*)Cotton, J.D. *et al*, *J. Chem. Soc. (A)*, 1967, 264 (*synth, ir*)Dalton, J. *et al*, *J. Chem. Soc. (A)*, 1968, 1215 (*ir*)Delbeke, F.T. *et al*, *J. Organomet. Chem.*, 1970, **25**, 213 (*ir*)C₁₂H₁₂Fe₂O₈Si₂

Fe-00916

Octacarbonylbis[μ-(dimethylsilylene)]diiron, 10Cl

[71453-76-4]



M 452.087

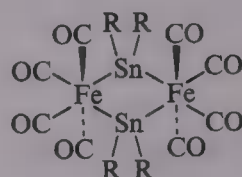
Air-sensitive yellow substance. Dec. at r.t.

Schmid, G. *et al*, *Z. Naturforsch., B*, 1979, **34**, 929 (*synth, ir, mössbauer*)C₁₂H₁₂Fe₂O₈Sn₂

Fe-00917

Octacarbonylbis[μ-(dimethylstannylene)]diiron, 9Cl, 8Cl

[15615-58-4]



R = Me

M 633.296

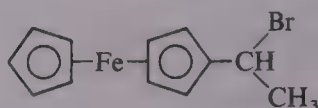
Golden-yellow platelets (hexane). Dec. >170° (220°).

King, R.B. *et al*, *J. Am. Chem. Soc.*, 1960, **85**, 3833 (*synth*)Cotton, J.D. *et al*, *J. Chem. Soc. (A)*, 1967, 264 (*synth, ir*)Abel, E.W. *et al*, *J. Organomet. Chem.*, 1970, **22**, C31 (*synth*)Gilmore, C.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 1387 (*struct*)Marks, T.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 769 (*synth, ir, pmr*)C₁₂H₁₃BrFe

Fe-00918

(1-Bromoethyl)ferrocene

1-Bromo-1-ferrocenylethane



M 292.986

(±)-form

Amber-coloured, water-sensitive solid. Mp 48-50° dec.

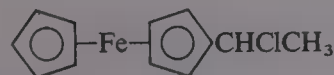
Benkeser, R.A. *et al*, *J. Org. Chem.*, 1961, **26**, 4179 (*synth, ir*)C₁₂H₁₃ClFe

Fe-00919

(1-Chloroethyl)ferrocene, 9Cl

1-Chloro-1-ferrocenylethane

[1274-26-6]



M 248.535

(±)-form

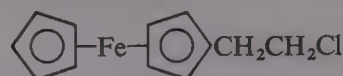
Yellow cryst. (Et₂O). Mp 66-8°.Benkeser, R.A. *et al*, *J. Org. Chem.*, 1961, **26**, 4179 (*synth, ir, pmr*)Patin, H. *et al*, *Bull. Soc. Chim. Fr.*, 1973, 2760 (*pmr*)C₁₂H₁₃ClFe

Fe-00920

(2-Chloroethyl)ferrocene, 9Cl

1-Chloro-2-ferrocenylethane

[56081-86-8]



M 248.535

Yellow plates (pet. ether). Mp 52-4°.

Schlögl, K. *et al*, *Monatsh. Chem.*, 1963, **94**, 376 (*synth*)Lee, C.C. *et al*, *Can. J. Chem.*, 1975, **53**, 232 (*synth, pmr, ms*)C₁₂H₁₃ClFeO

Fe-00921

(2-Chloro-1-hydroxyethyl)ferrocene, 10Cl

[(2-Chloro-1-hydroxyethyl)cyclopentadienyl]cyclopentadienyliron. Ferrocenyl chloromethyl carbinol. 2-Chloro-1-ferrocenylethanol

[1271-58-5]



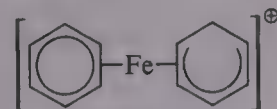
M 264.534

(±)-form

Yellow cryst. (pet. ether). Mp 76-7°.

Schlögl, K. *et al*, *Monatsh. Chem.*, 1963, **94**, 376 (*synth*)Lorkowski, H.J. *et al*, *J. Prakt. Chem.*, 1965, **27**, 6 (*synth*)Nekrasov, Yu.S. *et al*, *Org. Mass Spectrom.*, 1979, **14**, 22 (*ms*)C₁₂H₁₃Fe[⊕]

Fe-00922

(η⁶-Benzene)[(1,2,3,4,5-η)-2,4-cyclohexadien-1-yl]iron(1+), 10Cl

M 213.082 (ion)

Hexafluorophosphate: [65296-91-5].

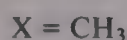
C₁₂H₁₃F₆Fe[⊕] M 358.046Orange cryst. with no well-defined Mp. Sol. CH₂Cl₂, 1,2 dichloroethane.Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1977, **236**, 1130 (*synth, ir*)

C₁₂H₁₃Fe⁺

Fe-00923

(η^6 -Benzene)(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]iron(1+), 9Cl
[51150-29-9]

As (η^6 -Benzene)(η^5 -1-chloro-2,4-cyclopentadien-1-yl)-iron(1+), Fe-00703 with



M 213.082 (ion)

Hexafluorophosphate: [34978-78-4].

C₁₂H₁₃F₆FeP M 358.046

Yellow solid (Me₂CO/Et₂O). Mp 180° dec.

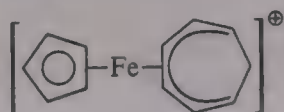
Astruc, D. *et al*, *Bull. Soc. Chim. Fr.*, 1975, 2571 (*synth*, *pmr*)

Turta, K.I. *et al*, *CA*, 1972, **76**, 19852 (*mössbauer*)

C₁₂H₁₃Fe⁺

Fe-00924

[(1,2,3,4,5,6- η)-1,3,5-Cycloheptatriene](η^5 -2,4-cyclopentadien-1-yl)iron(1+), 10Cl



M 213.082 (ion)

Tetrafluoroborate: [79105-24-1].

C₁₂H₁₃BF₄Fe M 299.885

Golden cryst. (CH₂Cl₂/hexane). Mp 214-5° dec.

Gill, T.P. *et al*, *J. Organomet. Chem.*, 1981, **216**, 65 (*synth*, *pmr*)

C₁₂H₁₃Fe⁺

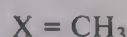
Fe-00925

(η^5 -2,4-Cyclopentadien-1-yl)(1,2,3,4,5,6- η)-methylbenzene]iron(1+), 9Cl

π -Cyclopentadienyl(toluene)iron(1+), 8Cl

[32760-28-4]

As (η^6 -Bromobenzene)(η^5 -2,4-cyclopentadien-1-yl)-iron(1+), Fe-00702 with



M 213.082 (ion)

Hexafluorophosphate: [33435-42-6].

C₁₂H₁₃F₆FeP M 358.046

Orange cryst. (Me₂CO/Et₂O).

Tetrafluoroborate: [32758-59-1].

C₁₂H₁₃BF₄Fe M 299.885

Orange solid (Me₂CO/Et₂O). Mp 159-60°.

Tetraphenylborate:

C₃₆H₃₃BFe M 532.314

Orange-red solid. Dec. at 246°.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1966, **166**, 607 (*synth*)

Khand, I.U. *et al*, *J. Chem. Soc. (C)*, 1968, 2257 (*synth*, *pmr*)

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1969, **184**, 358 (*ir*)

Turta, K.I. *et al*, *CA*, 1972, **76**, 19852 (*mössbauer*)

Solodovnikov, S.P. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1981, **258**, 415 (*uv*)

Steele, B.R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 529 (*cmr*)

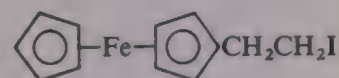
C₁₂H₁₃FeI

Fe-00926

(2-Iodoethyl)ferrocene, 9Cl

π -Cyclopentadienyl(2-iodoethyl- π -cyclopentadienyl)iron. 1-Ferrocenyl-2-iodoethane. β -Ferrocenylethyl iodide

[59308-19-9]



M 339.986

Cryst. (pet. ether). Mp 57-9°.

Tverdokhlebov, V.P. *et al*, *Zh. Org. Khim.*, 1976, **12**, 362; *CA*, **84**, 180380 (*synth*, *ir*, *pmr*)

C₁₂H₁₃FeNO₂

Fe-00927

1-Ethyl-1'-nitroferrocene, 8Cl

[12109-76-1]

As 1-Methyl-1'-nitroferrocene, Fe-00739 with



M 259.087

Violet cryst. (pet. ether/C₆H₆). Mp 60-1°.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1961, **137**, 102 (*synth*)

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1966, 1938 (*synth*, *ir*)

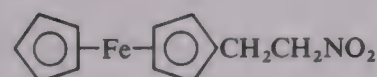
C₁₂H₁₃FeNO₂

Fe-00928

(2-Nitroethyl)ferrocene, 9Cl

2-Ferrocenylnitroethane

[59308-20-2]



M 259.087

Solid. Mp 87°.

Tverdokhlebov, V.P. *et al*, *Zh. Org. Khim.*, 1976, **12**, 362 (*synth*, *ir*, *pmr*)

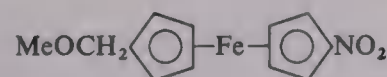
Shvekhgeimer, G.A. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1980, **252**, 636 (*synth*)

C₁₂H₁₃FeNO₃

Fe-00929

1-(Methoxymethyl)-1'-nitroferrocene, 9Cl

[59922-70-2]



M 275.087

Mp 64-6°.

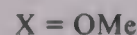
Slocum, D.W. *et al*, *J. Org. Chem.*, 1976, **41**, 3664 (*synth*, *pmr*)

C₁₂H₁₃FeO⁺

Fe-00930

(η^6 -Benzene)(1,2,3,4,5- η)-1-methoxy-2,4-cyclopentadien-1-yl]iron(1+), 9Cl

As (η^6 -Benzene)(η^5 -1-chloro-2,4-cyclopentadien-1-yl)-iron(1+), Fe-00703 with



M 229.081 (ion)

Hexafluorophosphate: [32758-63-7].

C₁₂H₁₃F₆FeOP M 374.045

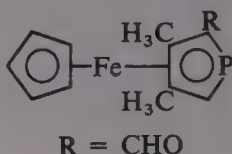
No phys. props. reported.

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1969, **20**, 169 (*polarog*)

Turta, K.I. *et al*, *CA*, 1972, **76**, 19852 (*mössbauer*)C₁₂H₁₃FeOP

Fe-00931

(η^5 -2,4-Cyclopentadien-1-yl)((1,2,3,4,5- η)-3,4-dimethyl-1H-phosphole-2-carboxaldehydato)iron, 10Cl
2-Formyl-3,4-dimethyl-1-phosphaferrocene
[73153-28-3]

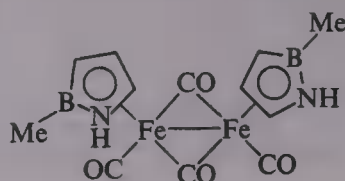


M 260.055

Cryst. (C₆H₆). Mp 76°.De Lauzon, G. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 994 (*synth*, *pmr*, *cmr*, *nmr*, *ir*, *ms*)C₁₂H₁₄B₂Fe₂N₂O₄

Fe-00932

Di- μ -carbonyldicarbonylbis[(3,4,5- η)-2,3-dihydro-2-methyl-1H-1,2-azaborol-3-yl-B²,N¹]diiron, 10Cl
[78534-54-0]

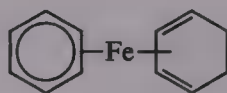


M 383.568

Dark-red cryst. (toluene). Mp 140° dec. Bp_{0.01} 80° subl.Schulze, J. *et al*, *Chem. Ber.*, 1981, **114**, 1297 (*synth*, *ir*, *ms*, *pmr*, *nmr*)C₁₂H₁₄Fe

Fe-00933

(η^6 -Benzene)((1,2,3,4- η)-1,3-cyclohexadiene]iron, 10Cl
[71265-76-4]

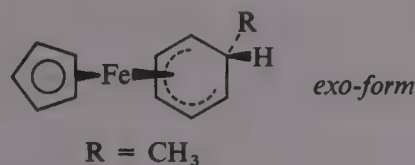


M 214.090

Yellow-orange air-sensitive cryst. (pentane). Mp 109°. Bp 40° subl. *in vacuo*.Fischer, E.O. *et al*, *Z. Naturforsch.*, **B**, 1962, **17**, 776 (*synth*, *ir*, *pmr*)Fischer, E.O. *et al*, *Chem. Ber.*, 1963, **96**, 3217 (*pmr*, *ir*)Ittel, S.D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 3874 (*synth*, *pmr*, *cmr*, *ms*)Beard, L.K. *et al*, *J. Organomet. Chem.*, 1981, **209**, 245 (*synth*, *ms*, *pmr*)Ittel, S.D. *et al*, *Organometallics*, 1982, **1**, 1432 (*synth*, *pmr*, *cmr*, *ms*)C₁₂H₁₄Fe

Fe-00934

(η^5 -2,4-Cyclopentadien-1-yl)((1,2,3,4,5- η)-6-methyl-2,4-cyclohexadien-1-yl]iron, 9Cl
[32879-24-6]

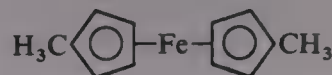


M 214.090

*exo-form*Dark-red liq. Bp_{0.005} 65°.Khand, I.U. *et al*, *J. Chem. Soc. (C)*, 1969, 2024 (*synth*, *ir*, *pmr*)Nesmeyanov, A.N. *et al*, *CA*, 1975, **83**, 88063 (*cmr*, *ir*)C₁₂H₁₄Fe

Fe-00935

1,1'-Dimethylferrocene, 9Cl
Bis(methylcyclopentadienyl)iron
[1291-47-0]



M 214.090

Polyesterification catalyst. Yellow needles. Mp 37.5-38°. Bp_{0.02} 100°.Pauson, P.L. *et al*, *J. Chem. Soc. (C)*, 1966, 251 (*synth*)Schlögl, K. *et al*, *Monatsh. Chem.*, 1967, **98**, 82 (*pmr*)Spilners, I.J. *et al*, *Org. Prep. Proced. Int.*, 1973, **5**, 255; *CA*, **80**, 70932 (*synth*)Braun, S. *et al*, *J. Organomet. Chem.*, 1975, **97**, 429 (*cmr*)Materikova, R.B. *et al*, *J. Organomet. Chem.*, 1977, **142**, 81 (*ir*, *cmr*)C₁₂H₁₄Fe

Fe-00936

1,2-Dimethylferrocene, 9Cl
[12126-15-7]

M 214.090

Yellow solid (pet. ether). Mp 34-6°. Bp_{0.5} 67-8°, Bp_{0.1} 50-60°.Schlögl, K. *et al*, *Monatsh. Chem.*, 1964, **95**, 558 (*synth*, *ir*)Slocum, D.W. *et al*, *J. Org. Chem.*, 1969, **34**, 1973 (*synth*, *pmr*, *ms*)Turbitt, T.D. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1974, 189 (*synth*)C₁₂H₁₄Fe

Fe-00937

1,3-Dimethylferrocene, 9Cl
[12126-16-8]

M 214.090

Yellow liq. Bp_{0.1} 50-60°.Schlögl, K. *et al*, *Monatsh. Chem.*, 1964, **95**, 558 (*synth*, *ir*)Slocum, D.W. *et al*, *J. Chem. Soc., Chem. Commun.*, 1974, 967 (*synth*)Turbitt, T.D. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1974, 189 (*synth*)

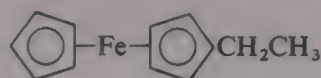
C₁₂H₁₄Fe

Fe-00938

Ethylferrocene, 9Cl

Ferrocenylethane. (π -Cyclopentadienyl)(π -ethylcyclopentadienyl)iron

[1273-89-8]



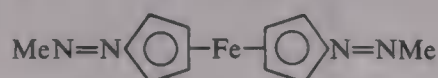
M 214.090

Orange oil. Bp₁₀ 121-3°, Bp_{0.2} 74-6°.Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR*, 1957, **112**, 439 (*synth*)Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 4112 (*synth*)Pauson, P.L. *et al*, *J. Chem. Soc.*, 1962, 3880 (*synth*)Slocum, D.W. *et al*, *J. Org. Chem.*, 1972, **37**, 4278 (*pmr*)Koridze, A.A. *et al*, *J. Organomet. Chem.*, 1975, **96**, C13 (*cmr*)C₁₂H₁₄FeN₄

Fe-00939

1,1'-Bis(methylazo)ferrocene

Bis(methylazo- π -cyclopentadienyl)iron



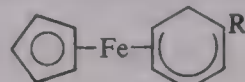
M 270.116

Maroon needles (ligroin). Mp 101-3°. Bp_{0.005} 65° subl.Knox, G.R. *et al*, *J. Chem. Soc.*, 1961, 4615 (*synth*)C₁₂H₁₄FeO

Fe-00940

(η^5 -2,4-Cyclopentadien-1-yl)((1,2,3,4,5- η)-5-(hydroxymethyl)-2,4-cyclohexadien-1-yl)iron, 9Cl

[59691-82-6]

R = CH₂OH

M 230.089

Obt. by redn. of (η^5 -2,4-Cyclopentadien-1-yl)-[(1,2,3,4,5- η)-5-(methoxycarbonyl)-2,4-cyclohexadien-1-yl]iron, Fe-01075. Orange-red low-melting solid.

Unstable in soln. or in absence of solv.

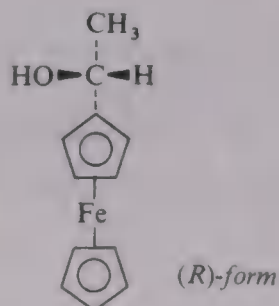
Khan, M.M. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1979, 1879 (*synth*)C₁₂H₁₄FeO

Fe-00941

1-Ferrocenylethanol

(1-Hydroxyethyl)ferrocene, 9Cl. α -Methylferrocenemethanol, 8Cl

[1277-49-2]



M 230.089

▷LK0730000.

(R)-form [35025-24-2]

[α]_D²² -30° (c, 5 in C₆H₆).

(±)-form

Orange-red cryst. (pet. ether/Et₂O). Mp 77-8° (73-5°).

Dehydrates on distillation.

Ac: [1271-98-3].

C₁₄H₁₆FeO₂ M 272.126

Cryst. (diisopropyl ether). Mp 70.2-71°. Sublimes.

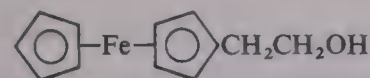
Arimoto, F.S. *et al*, *J. Am. Chem. Soc.*, 1955, **77**, 6295 (*synth*)Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk. SSSR, Ser. Khim.*, 1969, 1939; *CA*, **72**, 16940.Williams, G.H. *et al*, *J. Organomet. Chem.*, 1973, **60**, C53 (*cmr*)Ratajczak, A. *et al*, *J. Organomet. Chem.*, 1975, **91**, 73 (*synth, resoln*)C₁₂H₁₄FeO

Fe-00942

(2-Hydroxyethyl)ferrocene, 9Cl

2-Ferrocenylethanol. Ferroceneethanol

[1273-90-1]



M 230.089

Light-orange needles (pet. ether). Mp 32.5-33.5°, 41-41.5°, 49-50°.

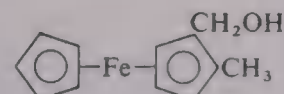
Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 3420 (*synth*)Lednicer, D. *et al*, *J. Org. Chem.*, 1958, **23**, 653 (*synth*)Schlöggl, K. *et al*, *Monatsh. Chem.*, 1963, **94**, 376 (*synth*)Mauldin, C.H. *et al*, *Tetrahedron Lett.*, 1972, 2955 (*synth*)Lee, C.C. *et al*, *Can. J. Chem.*, 1975, **53**, 232 (*ms, pmr*)C₁₂H₁₄FeO

Fe-00943

1-(Hydroxymethyl)-2-methylferrocene, 9Cl

2-Methylferrocenemethanol

[32879-23-5]



M 230.089

(±)-form

Orange oil. Bp_{0.01} 75-85°. [α]_D +9°.

(±)-form

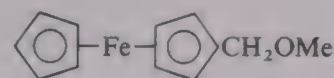
Orange oil. Bp_{0.01} 75-85°.Schlöggl, K. *et al*, *Monatsh. Chem.*, 1964, **95**, 576 (*synth, resoln*)Falk, H. *et al*, *Monatsh. Chem.*, 1966, **97**, 1029.Schlöggl, K., *Fortschr. Chem. Forsch.*, 1966, **6**, 479 (*rev*)Dannenberg, J.J. *et al*, *Tetrahedron*, 1973, **29**, 1575 (*synth, pmr*)Slocum, D.W. *et al*, *J. Organomet. Chem.*, 1974, **72**, 227 (*synth, pmr*)C₁₂H₁₄FeO

Fe-00944

(Methoxymethyl)ferrocene, 9Cl

(Ferrocenylmethyl) methyl ether

[12153-89-8]



M 230.089

Source of C₁₀H₉FeCH₂Li. Yellow oil. Bp_{1.5} 106-107.5°, Bp °.Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1960, **133**, 1105 (*synth*)

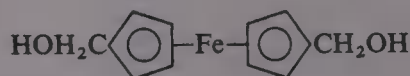
C₁₂H₁₄FeO₂

Fe-00945

1,1'-Bis(hydroxymethyl)ferrocene, 9Cl

Bis(hydroxymethyl- π -cyclopentadienyl)iron. 1,1'-
Ferrocenedimethanol

[1291-48-1]



M 246.088

Yellow cryst. Mp 107-8°.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1957, **112**, 439 (synth)

Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 4111 (synth, ir)

Yamakawa, K. *et al*, *J. Organomet. Chem.*, 1973, **52**, 407 (pmr)

C₁₂H₁₄FeO₂

Fe-00946

1,2-Bis(hydroxymethyl)ferrocene, 9Cl

1,2-Ferrocenedimethanol

[12093-82-2]

M 246.088

Brilliant-yellow plates (C₆H₆). Mp 117-8°.

Tirouflet, J. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1966, **262**, 1889 (synth)

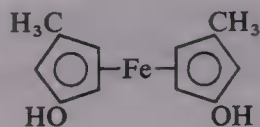
Marr, G. *et al*, *J. Organomet. Chem.*, 1967, **8**, 17 (synth, pmr)

C₁₂H₁₄FeO₂

Fe-00947

1,1'-Dihydroxy-3,3'-dimethylferrocene

Bis(1-hydroxy-3-methyl- π -cyclopentadienyl)iron. 3,3'-
Dimethyl-1,1'-ferrocenediol



M 246.088

Air-sensitive yellow solid. Bp_{0.1} 130-40° subl. Isol. as a
mixt. of 2 isomers.

Isomer 1

Benzoyl:

C₂₆H₂₂O₄Fe M 454.304

Fine yellow-orange needles (AcOH or heptane). Mp
125.5-127°.

Isomer 2

Benzoyl: Fine yellow-orange needles (heptane). Mp 104-
5°.

Benson, R.E. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 5471 (synth,
derivs, ir)

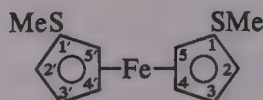
C₁₂H₁₄FeS₂

Fe-00948

1,1'-Bis(methylthio)ferrocene, 8Cl

Bis(methylthio- π -cyclopentadienyl)iron

[1293-94-3]



M 278.210

Dark-orange liq. Bp_{0.02} 103°.

Nefedov, V.A. *et al*, *Zh. Obshch. Khim.*, 1966, **36**, 122 (synth)

Knox, G.R. *et al*, *J. Chem. Soc. (C)*, 1967, 1842 (synth, ir, pmr)

C₁₂H₁₄FeSi

Fe-00949

1,1'-(Dimethylsilylene)ferrocene, 10Cl

(1,1'-Ferrocenyldiyl)dimethylsilane

[72380-68-8]

As (1,1'-Dichlorosilylene)ferrocene, Fe-00514 with

X = Me

M 242.175

Electroactive monolayer derivatising reagent. Orange
platelets. Mp 72-5°. Bp_{0.01} 40° subl.

Fischer, A.B. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 6501 (synth,
ms, pmr, uv)

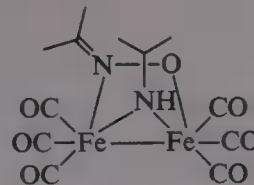
Fischer, A.B. *et al*, *Inorg. Chem.*, 1982, **21**, 1766 (use)

C₁₂H₁₄Fe₂N₂O₇

Fe-00950

Hexacarbonyl[μ -(2-propanaminato)] μ -(2-propanoneoxima-to-N:O)]diiron, 9Cl

[60365-29-9]



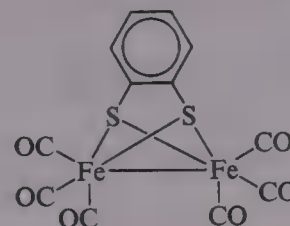
M 409.946

Orange cryst. (heptane). Mp 94.5°.

Aime, S. *et al*, *J. Chem. Soc., Chem. Commun.*, 1976, 370
(synth, struct, ir, pmr, ms)

C₁₂H₁₄Fe₂O₆S₂

Fe-00951

 μ -[1,2-Benzenedithiolato(2-)-S,S':S,S']hexacarbonyldi-iron

M 430.053

Red needles (cyclohexane). Mp 112-3°.

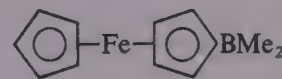
Staab, H. *et al*, *Chem. Ber.*, 1972, **105**, 2320 (synth)

C₁₂H₁₅BFe

Fe-00952

Dimethylborylferrocene

Ferrocenyldimethylboron, 10Cl. (Dimethylboryl)ferro-
cene. Ferrocenyldimethylborane



M 225.908

Py complex: [61649-81-8].

C₁₇H₂₀BFeN M 305.009

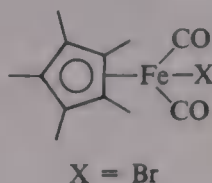
Solid. Mp 113-5°.

Renk, T. *et al*, *J. Organomet. Chem.*, 1976, **120**, 1 (synth)

C₁₂H₁₅BrFeO₂

Fe-00953

Bromodicarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, η Cl
(η^5 -Pentamethylcyclopentadienyl)dicarbonyliron
bromide
[34808-38-3]

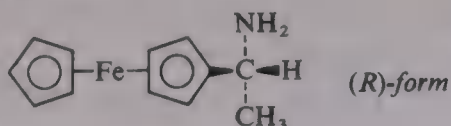


M 327.000
Red-brown cryst. (CH₂Cl₂/hexane). Mp 160-2°.
King, R.B. *et al*, *J. Organomet. Chem.*, 1974, **69**, 131 (*synth*, *ir*, *pmr*, *ms*)

C₁₂H₁₅FeN

Fe-00954

(1-Aminoethyl)ferrocene, η Cl
1-Ferrocenylethylamine.
 α -Methylferrocenemethanamine



M 229.104
(R)-form [59685-04-0]
Air-sensitive amber oil. Mp 30°. Bp_{0.01} 81°. [α]_D²⁰ -20.8° (c, 1 in EtOH).
B, HCl: [α]_D²⁰ -3° (c, 4.0 in EtOH).
(S)-form [31869-27-9]
Previously assigned the (R) configuration based on optical rotation data. Mp 30°. Bp_{0.1} 85-95°. [α]_D²⁰ +21.0° (c, 4 in EtOH).
B, HCl: [α]_D²¹ +2° (c, 3 in EtOH).
(±)-form [12215-08-6]
Air-sensitive amber oil. Bp_{0.05} 90°.
B, AcOH: [50266-55-2]. Mp 124°.
B, HCl: Lemon-yellow cryst. (MeOH/C₆H₆). Mp 166-7° dec.
Graham, P.J. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 3416 (*synth*)
Buell, G.R. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 40 (*synth*)
Schlögl, K. *et al*, *Monatsh. Chem.*, 1964, **95**, 558; 1969, **100**, 254 (*resoln*, *ord*)
Marquarding, D. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 1969 (*abs config*)
Gokel, G.W. *et al*, *J. Org. Chem.*, 1972, 3053 (*synth*)
Allenmark, S., *et al*, *Chem. Scr.*, 1973, **4**, 69 (*pmr*)
Mourot, D. *et al*, *J. Organomet. Chem.*, 1976, **114**, 89 (*synth*)

C₁₂H₁₅FeN

Fe-00955

(2-Aminoethyl)ferrocene, η Cl
2-Ferrocenylethylamine. Ferroceneethanamine
[41312-65-6]

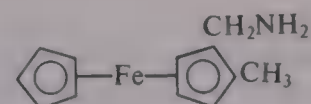


M 229.104
Orange oil. Bp_{0.5} 118-20°.
Lednicer, D. *et al*, *J. Org. Chem.*, 1958, **23**, 653 (*synth*)
Osgerber, J.M. *et al*, *J. Chem. Soc.*, 1961, 4600 (*synth*)

C₁₂H₁₅FeN

Fe-00956

1-(Aminomethyl)-2-methylferrocene
2-Methylferrocenemethylamine, η Cl

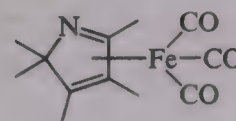


M 229.104
(±)-form
Liq. Mp ca. 20°. Bp_{0.01} 90-5°.
B, HCl: [α]_D¹⁶ +47.5° (c, 3 in EtOH).
Phenylurea deriv.: Cryst. (EtOH aq.). Mp 170-3°.
(-)-form
Liq. Bp_{0.01} 90-5°. [α]_D¹⁶ -17.1° (c, 2.7 in EtOH).
(±)-form
Orange oil. Mp 20°. Bp_{0.01} 90-5°.
Phenylurea deriv.: Cryst. (C₆H₆/MeOH). Mp 191-3°.
Schlögl, K. *et al*, *Monatsh. Chem.*, 1964, **95**, 558 (*synth*, *resoln*)

C₁₂H₁₅FeNO₃

Fe-00957

Tricarbonyl(2,2,3,4,5-pentamethyl-2H-pyrrole)iron, η Cl



M 277.102
Orange-red air-sensitive cryst. Mp 68-70°.
Tom Dieck, H. *et al*, *J. Chem. Soc., Chem. Commun.*, 1968, 678 (*synth*, *ir*)

C₁₂H₁₅FeOP

Fe-00958

(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-3,4-dimethyl-1H-phosphole-2-methanolato]iron, η Cl
2-Hydroxymethyl-3,4-dimethyl-1-phosphaferrocene
[73153-29-4]
As (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-3,4-dimethyl-1H-phosphole-2-carboxaldehydato]iron, Fe-00931 with

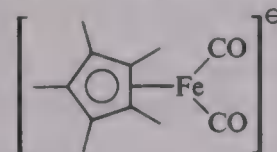
R = CH₂OH

M 262.071
Orange oil.
De Lauzon, G. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 994 (*synth*, *pmr*, *cmr*, *nmr*, *ir*)

C₁₂H₁₅FeO₂[⊖]

Fe-00959

Dicarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]ferrate(1-), η Cl

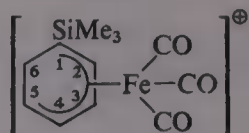


M 247.096 (ion)
Prepd. and used *in situ*.
K salt: [59654-59-0].
C₁₂H₁₅FeKO₂ M 286.195
Extremely air-sensitive dark brown-purple soln. in THF.
Ellis, J.E. *et al*, *Inorg. Chem.*, 1976, **15**, 2031 (*synth*, *ir*)
Catheline, D. *et al*, *J. Organomet. Chem.*, 1982, **226**, C52 (*synth*, *ir*, *mössbauer*, *props*)

C₁₂H₁₅FeO₃Si⁺

Fe-00960

Tricarbonyl[(1,2,3,4,5-η)-1-trimethylsilyl-2,4-cyclohexadien-1-yl]iron(1+)



M 291.181 (ion)

Tetrafluoroborate:

C₁₂H₁₅BF₄FeO₃Si M 377.985Yellow ppt. (MeCN/Et₂O). Mp 175-82° dec.Keil, M. *et al*, *Chem. Ber.*, 1982, **115**, 1103 (*synth*, *pmr*, *ir*)C₁₂H₁₅FeO₃Si⁺

Fe-00961

Tricarbonyl[(1,2,3,4,5-η)-2-trimethylsilyl-2,4-cyclohexadien-1-yl]iron(1+)

M 291.181 (ion)

Isol. as a mixt. with the 1-isomer, Tricarbonyl[(1,2,3,4,5-η)-1-trimethylsilyl-2,4-cyclohexadien-1-yl]iron(1+), Fe-00960.

Keil, M. *et al*, *Chem. Ber.*, 1982, **115**, 1103, 1113 (*synth*, *pmr*, *ir*)C₁₂H₁₅FeO₃Si⁺

Fe-00962

Tricarbonyl[(1,2,3,4,5-η)-3-trimethylsilyl-2,4-cyclohexadien-1-yl]iron(1+)

M 291.181 (ion)

Tetrafluoroborate:

C₁₂H₁₅BF₄FeO₃Si M 377.985Yellow ppt. (MeCN/Et₂O). Mp 166° dec.Effenberger, F. *et al*, *Chem. Ber.*, 1982, **115**, 1113 (*synth*, *ir*, *pmr*, *cmr*)C₁₂H₁₅FeP

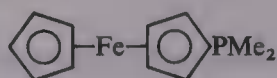
Fe-00963

(Dimethylphosphino)ferrocene, 9Cl

Ferrocenyldimethylphosphine.

Dimethylferrocenylphosphine

[41684-66-6]



M 246.071

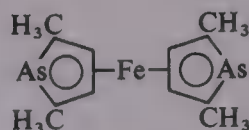
Liq. Bp_{2.0} 106°.Kiso, Y. *et al*, *J. Organomet. Chem.*, 1973, **50**, 297 (*synth*, *pmr*)C₁₂H₁₆As₂Fe

Fe-00964

Bis[(1,2,3,4,5-η)-2,5-dimethyl-1H-arsol-1-yl]iron, 10Cl

2,2',5,5'-Tetramethyl-1,1'-diarsaferrocene

[70114-45-3]



M 365.949

Possesses eclipsed sandwich struct. Red solid. Mp 34°.

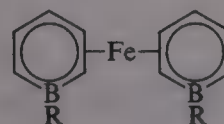
Thiollet, G. *et al*, *Inorg. Chim. Acta*, 1979, **32**, L67 (*synth*, *pmr*, *cmr*, *ms*)Chiche, L. *et al*, *Acta Crystallogr., Sect. B*, 1980 **36**, 1344 (*struct*)C₁₂H₁₆B₂Fe

Fe-00965

Bis[(1,2,3,4,5,6-η)-1-methylboratabenzene]iron, 9Cl

Bis(1-methylborinato)iron

[54853-80-4]



R = Me

M 237.725

Orange air-stable cryst. (pentane). Mp 44-5°, 71.2-71.7°.

Herberich, G. *et al*, *Chem. Ber.*, 1974, **107**, 3780 (*synth*, *pmr*, *ir*, *ms*)Ashe, A.J. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 6865 (*synth*, *mössbauer*, *nmr*, *uv*, *ms*)C₁₂H₁₆FeN₂

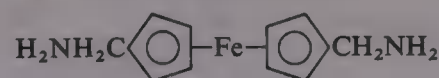
Fe-00966

1,1'-Bis(aminomethyl)ferrocene, 9Cl

Bis(aminomethyl-π-cyclopentadienyl)iron. 1,1'-

Ferrocenebismethylamine

[36344-20-4]



M 244.119

Red-brown oil.

Cassidy, P.E. *et al*, *J. Polym. Sci., A1*, 1971, **9**, 2419 (*synth*, *pmr*)C₁₂H₁₆FeO₃Si

Fe-00967

Tricarbonyl[(1,2,3,4-η)-2-trimethylsilyl-1,3-cyclohexadienyl]iron

As Tricarbonyl[(1,2,3,4-η)-2-chloro-1,3-cyclohexadienyl]iron, Fe-00364 with

R = SiMe₃

M 292.189

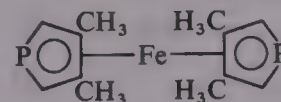
Orange liq. Mp ~25°. Bp_{0.1} 78°.Keil, M. *et al*, *Chem. Ber.*, 1982, **115**, 1103 (*synth*, *pmr*, *ir*, *ms*)C₁₂H₁₆FeP₂

Fe-00968

Bis[(1,2,3,4,5-η)-3,4-dimethyl-1H-phosphol-1-yl]iron, 10Cl

3,3',4,4'-Tetramethyl-1,1'-diphosphaferrocene

[67887-86-9]



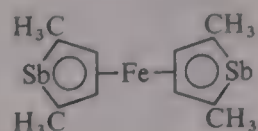
M 278.053

Red cryst. (MeOH). Mp 140°. Bp_{0.1} 70-80° subl.De Lauzon, G. *et al*, *J. Organomet. Chem.*, 1978, **156**, C33 (*synth*, *pmr*, *cmr*, *nmr*)De Lauzon, G. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 994 (*synth*, *struct*, *pmr*, *nmr*)

C₁₂H₁₆FeSb₂

Fe-00969

Bis[(1,2,3,4,5- η)-2,5-dimethyl-1*H*-stibol-1-yl]iron, 10Cl
 Bis(2,5-dimethylstibacyclopentadienyl)iron. 2,2',5,5'-
 Tetramethyl-1,1'-distibaferrocene
 [77188-00-2]



M 459.605

Deep-red air-stable cryst. Mp 59° dec. Subl. *in vacuo*.Ashe, A.J. *et al*, *J. Organomet. Chem.*, 1980, **202**, C95 (*synth*, *ms*, *pmr*, *cmr*)C₁₂H₁₈Fe

Fe-00970

Bis[(1,2,3,4,5- η)-3-methyl-2,4-pentadienyl]iron, 10Cl
 [74910-63-7]

As Bis(η^5 -2,4-pentadienyl)iron, Fe-00629 with

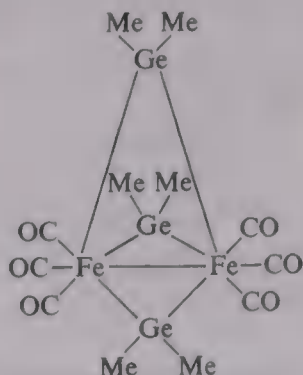
M 218.121

Orange cryst. Sol. hydrocarbons. Sublimes.

Wilson, D.E. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 5928 (*synth*, *pmr*, *ms*, *ir*)C₁₂H₁₈Fe₂Ge₃O₆

Fe-00971

Hexacarbonyltris[μ -(dimethylgermylene)]diiron, 8Cl
 [20468-10-4]



M 587.735

Yellow, air-stable needles (CH₂Cl₂).Brooks, E.H. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 3587 (*synth*, *struct*, *pmr*, *ir*)Elder, M. *et al*, *Inorg. Chem.*, 1969, **8**, 1424 (*struct*)C₁₂H₁₈N₆Fe²⁺

Fe-00972

Hexakis(isocyanomethane)iron(2+), 9Cl
 Hexakis(methyl isocyanide)iron(2+), 8Cl
 [17455-63-9]



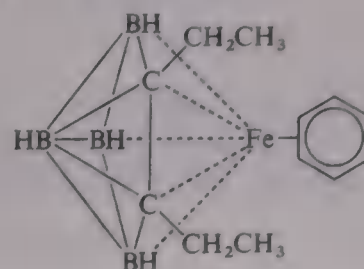
M 302.161 (ion)

Dichloride: [14873-17-7].

C₁₂H₁₈Cl₂N₆Fe M 373.067Yellow prisms + 3H₂O (EtOH aq./xylene).Hartley, E.G.J., *J. Chem. Soc.*, 1910, **97**, 1725 (*synth*)Powell, H.M. *et al*, *J. Chem. Soc.*, 1945, 799 (*synth*, *struct*)Fantucci, P.C. *et al*, *Inorg. Chim. Acta*, 1971, **5**, 425 (*uv*, *pmr*, *ir*, *raman*)C₁₂H₂₀B₄Fe

Fe-00973

(η^6 -Benzene)(2,3,4,5,6- η)-2,2-diethyl-1,4,5,6-tetrahydro-2,3-dicarbaheptaborato(2-)]iron
 [84582-99-0]

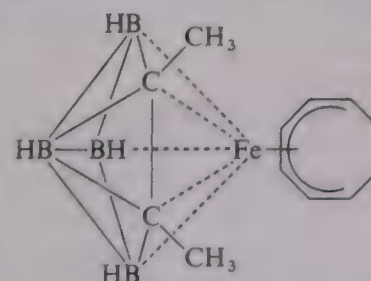


M 263.377

Golden-yellow air-stable cryst. (C₆H₆/hexane). Mp 156-7°.Swisher, R.G. *et al*, *Organometallics*, 1983, **2**, 506 (*synth*, *pmr*, *cmr*, *nmr*, *ms*, *ir*, *struct*)C₁₂H₂₀B₄Fe

Fe-00974

[(1,2,3,4,5,6- η)-1,3,5-Cyclooctatriene](2,3,4,5,6- η)-2,3-dimethyl-1,4,5,6-tetrahydro-2,3-dicarbaheptaborato(2-)]-iron
 [84583-04-0]

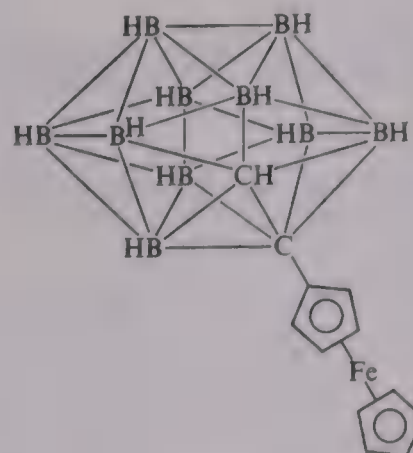


M 263.377

Air-stable red cryst. (CH₂Cl₂/hexane).Maynard, R.B. *et al*, *Organometallics*, 1983, **2**, 500 (*synth*, *struct*, *pmr*, *ir*, *nmr*, *cmr*, *ms*)C₁₂H₂₀B₁₀Fe

Fe-00975

(1,2-Dicarbadoecaboran(12)-1-yl)ferrocene, 9Cl
 [11064-94-1]



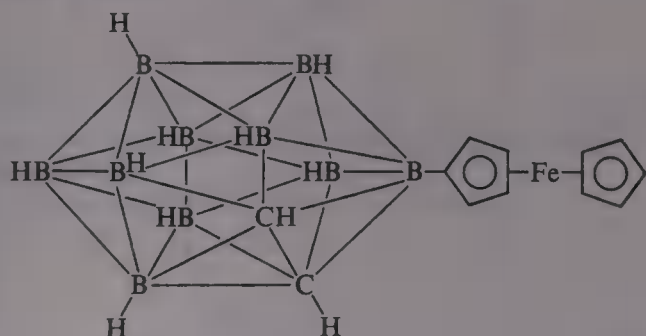
M 328.237

Cryst. (hexane). Mp 127-127.5°.

Zakharkin, L.I. *et al*, *Zh. Obshch. Khim.*, 1970, **40**, 2246 (*synth*)

C₁₂H₂₀B₁₀Fe

(1,2-Dicarbododecaboran(12)-3-yl)ferrocene, 9Cl
(o-Carboran-3-yl)ferrocene
[37298-49-0]



M 328.237

Cryst. (hexane). Mp 154-5°.

Krieg, V. *et al*, *Z. Anorg. Allg. Chem.*, 1969, 44 (*synth*)Zakharkin, L.I. *et al*, *J. Organomet. Chem.*, 1972, **40**, 15 (*synth*, *pmr*, *ir*)C₁₂H₂₃FeNP₂

Fe-00977

(Cyano-C)(η⁵-2,4-cyclopentadien-1-yl)bis(trimethylphosphine)iron, 10Cl
[78192-65-1]

As (η⁵-2,4-Cyclopentadien-1-yl)iodobis(trimethylphosphine)iron, Fe-00791 with

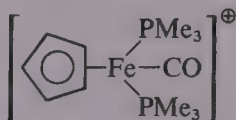
X = CN

M 299.115

Yellow cryst. Mp 178-80°. Bp_{0.02} 120° subl.Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1981, **206**, 77 (*synth*, *pmr*, *ir*)C₁₂H₂₃FeOP₂[⊕]

Fe-00978

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)bis(trimethylphosphine)iron(1+), 10Cl



M 301.108 (ion)

Tetrafluoroborate: [78192-43-5].

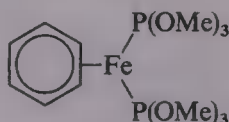
C₁₂H₂₃BF₄FeOP₂ M 387.911Yellow cryst. (Me₂CO/pet. ether). Mp >300°.

Hexafluorophosphate: [78192-44-6].

C₁₂H₂₃F₆FeOP₃ M 446.072Yellow cryst. (CH₂Cl₂/Et₂O). Mp >300°.Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1981, **206**, 77 (*synth*, *ir*, *pmr*)C₁₂H₂₄FeO₆P₂

Fe-00979

(η⁶-Benzene)bis(trimethyl phosphite-P)iron, 10Cl
[68643-83-4]



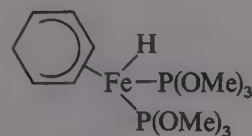
M 382.113

Red cryst. (pentane). Mp 39°.

Ittel, S.D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 3874; *Organometallics*, 1982, **1**, 1432 (*synth*, *pmr*, *cmr*, *nmr*, *ir*, *ms*)C₁₂H₂₆FeO₆P₂

Fe-00980

[(1,2,3,4,5-η)-2,4-Cyclohexadien-1-yl]hydrobis(trimethyl phosphite-P)iron, 10Cl
[71265-75-3]



M 384.128

No phys. props. reported.

Ittel, S.D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 3874 (*synth*, *pmr*, *cmr*)C₁₂H₂₆FeP₂

Fe-00981

(η⁵-2,4-Cyclopentadien-1-yl)methylbis(trimethylphosphine)iron, 10Cl
[78192-62-8]

As (η⁵-2,4-Cyclopentadien-1-yl)iodobis(trimethylphosphine)iron, Fe-00791 with

X = Me

M 288.132

Deep-red cryst. rapidly destroyed by air. Mp 93-100°.

Bp_{0.05} 70-80° subl.Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1981, **206**, 77 (*synth*, *pmr*)C₁₂H₃₀FeO₂P₃[⊕]

Fe-00982

Dicarbonylmethyltris(trimethylphosphine)iron(1+)

[FeMe(CO)₂(PMe₃)₃][⊕]

M 355.136 (ion)

Tetraphenylborate: [60685-69-0].

C₃₆H₅₀BFeO₂P₃ M 674.368

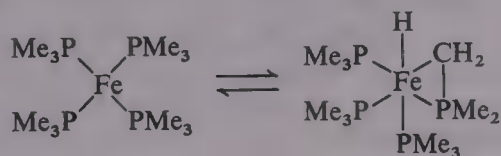
Characterised by ir.

Pankowski, M. *et al*, *J. Organomet. Chem.*, 1981, **221**, C21 (*synth*, *ir*)C₁₂H₃₆FeP₄

Fe-00983

Tetrakis(trimethylphosphine)iron

[63835-22-3]



M 360.158

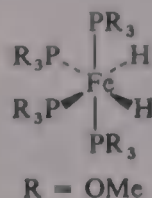
Coordinatively unsaturated. In soln. exists in equilibrium with isomeric iron(0) hydride form. Air-sensitive yellow cryst. (pentane). Sol. hydrocarbons, Et₂O. Mp >70° dec. Bp_{0.2} 60-80° subl.

Karsch, H.H. *et al*, *Chem. Ber.*, 1977, **110**, 2200, 2213 (*synth*, *pmr*, *nmr*, *ir*)Harris, T.V. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 6966 (*synth*, *pmr*, *nmr*)*Inorg. Synth.*, 1980, **20**, 71 (*synth*, *ir*)

C₁₂H₃₈FeO₁₂P₄

Fe-00984

Dihydrotetrakis(trimethyl phosphite-*P*)iron, 10Cl
[68643-75-4]



M 554.167
Colorless.

Harris, T.V. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 6966 (*synth*, *pmr*, *nmr*)

C₁₂H₃₈FeP₄

Fe-00985

Dihydrotetrakis(trimethylphosphine)iron, 10Cl, 9Cl
[56362-67-5]

As Dihydrotetrakis(trimethyl phosphite-*P*)iron, Fe-00984 with

R = Me

M 362.174

cis-form [56362-67-5]

Bright-yellow or yellow-brown cryst. Bp_{1.0} 80-90° subl.
Dec. >180-90°. Stereochemically nonrigid.

Klein, H.-F., *Angew. Chem., Int. Ed. Engl.*, 1970, **9**, 904 (*synth*, *pmr*, *ir*)

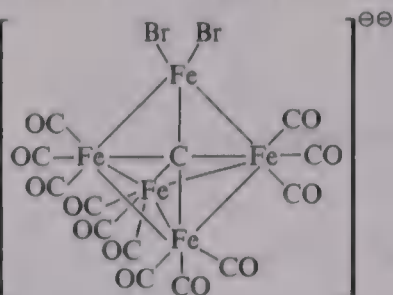
Karsch, H.H. *et al*, *Chem. Ber.*, 1977, **110**, 2200 (*synth*, *ir*, *pmr*, *nmr*)

Harris, T.V. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 6966 (*synth*, *pmr*)

C₁₃Br₂Fe₅O₁₂^{⊖⊖}

Fe-00986

(μ₃-Dibromoferrio)(μ₅-carbon)dodecacarbonyltetrafer-
rate(2-)
Dibromo(carbon)dodecacarbonylpentairon(2-)



M 787.179 (ion)

Bis(tetraethylammonium) salt: [83270-10-4].

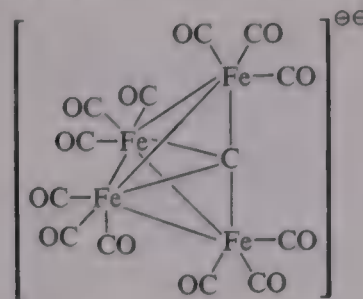
C₂₉H₄₀Br₂Fe₅N₂O₁₂ M 1047.684
Black cubes (CH₂Cl₂).

Bradley, J.S. *et al*, *Organometallics*, 1982, **1**, 1634 (*synth*)

C₁₃Fe₄O₁₂^{⊖⊖}

Fe-00987

(Carbon)dodecacarbonyltetraferrate(2-), 9Cl
Dodecacarbonyl-μ₄-methanetetrayltetraferrate(2-), 10Cl



M 571.524 (ion)

Bis(tetraethylammonium) salt: [83270-11-5].

C₂₉H₄₀Fe₄N₂O₁₂ M 832.029
Black cryst.

Bis[*bis*(triphenylphosphine)iminium] salt: [74792-05-5].

C₈₅H₆₀Fe₄N₂O₁₂P₄ M 1648.698
Red-black cryst.

Tachikawa, M. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 4541
(*synth*, *ir*, *cmr*)

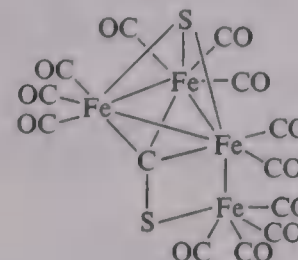
Boehme, R.F. *et al*, *Acta Crystallogr., Sect. B*, 1981, **37**, 1914
(*struct*)

Sievert, A.C. *et al*, *Organometallics*, 1982, **1**, 214 (*struct*)

C₁₃Fe₄O₁₂S₂

Fe-00988

Dodecacarbonyl[μ₄-[methanethiolato(4-)-C:C:C:S]]-μ₃-thi-
oxotetrairon
[76187-93-4]



M 635.644

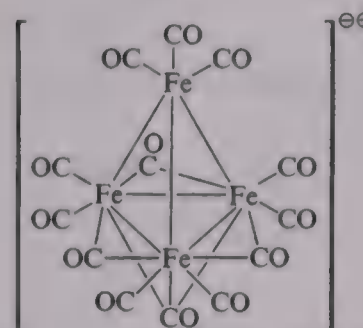
Orange-brown or black platelets (hexane). Mp ~120°
dec.

Broadhurst, P.V. *et al*, *J. Chem. Soc., Chem. Commun.*, 1980,
812; 1982, 140 (*synth*, *struct*, *ir*, *ms*)

C₁₃Fe₄O₁₃^{⊖⊖}

Fe-00989

Tri-μ-carbonyldodecacarbonyltetraferrate(2-), 9Cl
Tridecacarbonyltetraferrate(2-), 9Cl. μ₃-Carbonyldode-
cacarbonyltetraferrate(2-), 9Cl, 8Cl
[25767-85-5]



M 587.523 (ion)

Bis(tetraethylammonium) salt: [26024-89-5].

C₂₉H₄₀Fe₄N₂O₁₃ M 848.029
Moderately air-sensitive red-black cryst. (CH₂Cl₂).

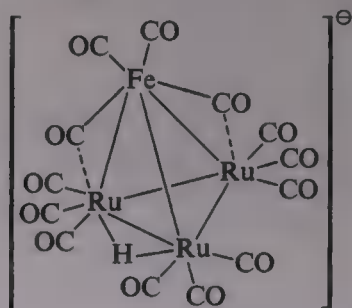
Hieber, W. *et al*, *Chem. Ber.*, 1957, **90**, 286 (*synth*)
 Hieber, W. *et al*, *Z. Naturforsch. B*, 1962, **17**, 211 (*uv*)
 Doedens, R.J. *et al*, *J. Am. Chem. Soc.*, 1966, **88**, 4847 (*struct*)
 Farmery, K. *et al*, *J. Chem. Soc. (A)*, 1969, 2339 (*synth, ir, mössbauer*)
Inorg. Synth., 1982, **21**, 66 (*synth, ir*)

 $C_{13}HFeO_{13}Ru_3^{\ominus}$ Fe-00990

Di- μ -carbonylnonacarbonyl(dicarbonylferrate)- μ -hydrotriruthenate(1-)

Tridecacarbonylhydroirontriruthenium(1-)

[74128-10-2]



M 724.200 (ion)

Air-stable.

Bis(triphenylphosphine)iminium salt: [78571-90-1].

$C_{49}H_{31}FeNO_{13}P_2Ru_3$ M 1262.787

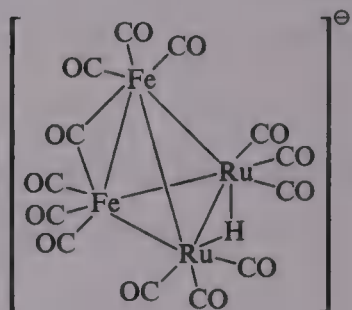
Air-stable black cryst. (Et_2O /hexane). Sol. CH_2Cl_2 , Et_2O , insol. hexane.

Takusagawa, F. *et al*, *Inorg. Chem.*, 1981, **20**, 3823 (*synth, cryst struct*)

Inorg. Synth., 1982, **21**, 60 (*synth, ir, pmr*)

 $C_{13}HFe_2O_{13}Ru_2^{\ominus}$ Fe-00991

Hexacarbonyl(μ -carbonylhexacarbonyldiferrate)- μ -hydroditeruthenate(1-), 10Cl



M 678.977 (ion)

Bis(triphenylphosphine)iminium salt: [78571-92-3].

$C_{49}H_{31}Fe_2NO_{13}P_2Ru_2$ M 1217.564

Black cryst. (Et_2O /hexane). Sol. Et_2O , THF.

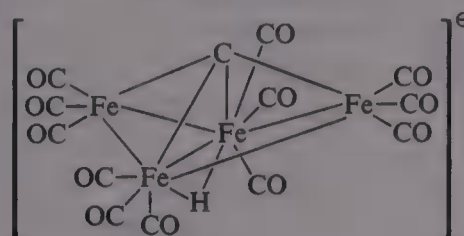
Takusagawa, F. *et al*, *Inorg. Chem.*, 1981, **20**, 3823 (*synth, ir, cryst struct*)

 $C_{13}HFe_4O_{12}^{\ominus}$

Fe-00992

Dodecacarbonyl- μ -hydro- μ_4 -methanetetrayltetraferate(1-), 10Cl

(μ_4 -Carbon)dodecacarbonyl- μ -hydrotetraferrate(1-)



M 572.532 (ion)

Bis(triphenylphosphine)iminium salt: [74792-03-3].

$C_{49}H_{31}Fe_4NO_{12}P_2$ M 1111.119

Dark red-black cryst. (MeOH).

Holt, E.M. *et al*, *J. Organomet. Chem.*, 1981, **213**, 125 (*synth, ir, struct*)

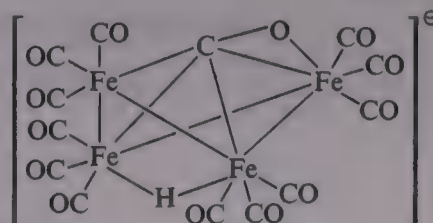
 $C_{13}HFe_4O_{13}^{\ominus}$

Fe-00993

μ_3 -Carbonyldodecacarbonylhydrotetraferrate(1-), 8Cl

[μ_4 -(Carbonyl-C:C:C:C,O)]dodecacarbonyl- μ -hydrotetraferrate(1-). Tridecacarbonylhydrotetraferrate(1-)

[25463-35-8]



M 588.531 (ion)

Red.

Pyridinium salt:

$C_{18}H_7Fe_4NO_{13}$ M 668.640

Air- and moisture-sensitive light-brown microcryst.

Benzyltrimethylammonium salt: [62476-99-7].

$C_{23}H_{17}Fe_4NO_{13}$ M 738.774

Black air-sensitive cryst. (CH_2Cl_2 /heptane).

Hieber, W. *et al*, *Chem. Ber.*, 1957, **90**, 287.

Farmery, K. *et al*, *J. Chem. Soc. (A)*, 1969, 2339 (*synth, mössbauer*)

Manassero, M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1976, 919 (*synth, cryst struct, pmr*)

Whitmire, K.H. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 6754 (*cmr*)

Longoni, G. *et al*, *Philos. Trans. R. Soc. London, Ser. A*, 1982, **308**, 47; *CA*, **98**, 136531 (*synth*)

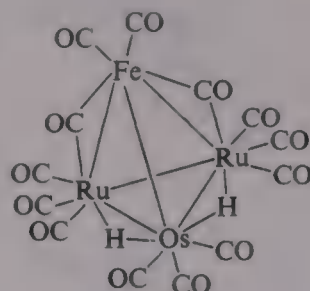
Sosinsky, B.A. *et al*, *Inorg. Chem.*, 1982, **21**, 348 (*mössbauer*)

C₁₃H₂FeO₁₃OsRu₂

Fe-00994

Di-μ-carbonyltricarbonyl(dicarbonyliron)(hexacarbonyl-μ-hydrodiruthenium)-μ-hydroosmium, 10Cl*Di-μ-carbonyltricarbonyl(dicarbonyliron)di-μ-hydrobis(tricarbonylruthenium)osmium, 10Cl. Tridecacarbonyldihydroirondirutheniumosmium*

[61863-84-1]



M 814.338

Fluxional molecule, interconverting mixt. of 2 isomers at r.t. The isomer shown predominates, the minor isomer having the Os exchanged with one Ru. Also shows CO group migration. Orange-red.

Geoffroy, G.L. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 304 (*synth, uv, ir, pmr*)

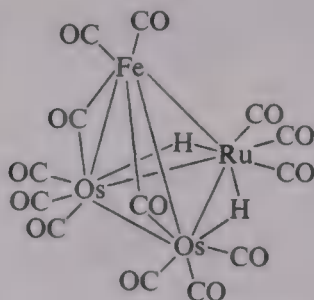
Gladfelter, W.L. *et al*, *Inorg. Chem.*, 1980, **19**, 2579 (*cmr, pmr*)

C₁₃H₂FeO₁₃Os₂Ru

Fe-00995

Di-μ-carbonylhexacarbonyl(dicarbonyliron)di-μ-hydro(tricarbonylruthenium)diosmium*Tridecacarbonyldihydroirondiosmiumruthenium*

[61816-94-2]



M 903.468

Fluxional molecule showing CO ligand migration and skeletal rearr. having the effect of Os-Ru interchange. Isomer shown predominates. Orange.

Geoffroy, G.L. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 6775, 7565 (*synth, cmr, ms, ir*)

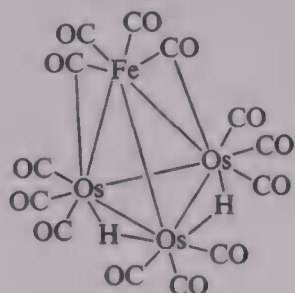
Gladfelter, W.L. *et al*, *Inorg. Chem.*, 1980, **19**, 2579 (*pmr, cmr*)

C₁₃H₂FeO₁₃Os₃

Fe-00996

Di-μ-carbonylnonacarbonyl(dicarbonyliron)di-μ-hydrotriosmium, 9Cl*Tridecacarbonyldihydrotriosmiumiron, 8Cl*

[12563-74-5]



M 992.598

Possesses two semi-bridging CO groups. Mod. air-stable orange cryst. (CH₂Cl₂/hexane). Sol. hexane.

Plotkin, J.S. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 6157 (*synth, ir, struct, bibl*)

Churchill, M.R. *et al*, *Inorg. Chem.*, 1982, **21**, 1958 (*synth, cmr, cryst struct*)

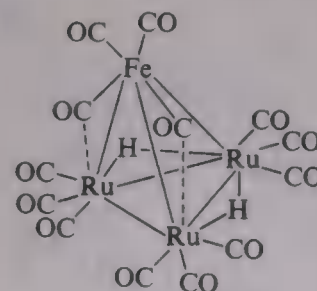
Inorg. Synth., 1982, **21**, 57 (*synth, spectra*)

C₁₃H₂FeO₁₃Ru₃

Fe-00997

Di-μ-carbonyldicarbonyldi-μ-hydrotris(μ₃-(tricarbonylruthenio))iron, 10Cl*Tridecacarbonyldihydroirondiruthenium, 9Cl. Tridecacarbonyldihydrotriruthenium iron, 8Cl*

[12375-24-5]



M 725.208

Fluxional molecule showing CO group migration and skeletal rearr. Orange or red needles. pK_a 14.3 (MeOH, 25°). Air-stable.

Knight, J. *et al*, *Chem. Ind. (London)*, 1968, 115 (*synth, ir*)

Yawney, D.B.W. *et al*, *J. Chem. Soc. (A)*, 1969, 502 (*synth*)

Gilmore, C.J. *et al*, *J. Chem. Soc. (A)*, 1971, 3453 (*cryst struct*)

Geoffroy, G.L. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 7565 (*synth*)

Walker, H.W. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 7428.

Gladfelter, W.L. *et al*, *Inorg. Chem.*, 1980, **19**, 2579 (*pmr, cmr*)

Geoffroy, G.L. *et al*, *ACS Symp. Ser.*, 1981, **155**, 111 (*rev*)

Inorg. Synth., 1982, **21**, 57 (*synth, bibl*)

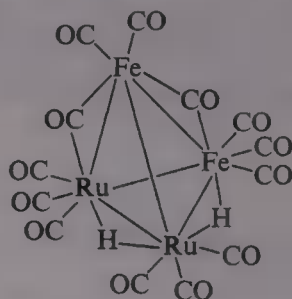
Suggestions for new Entries are welcomed. Please write to the Editor, Dictionary of Organometallic Compounds, Chapman and Hall Ltd, 11 New Fetter Lane, London EC4P 4EE

C₁₃H₂Fe₂O₁₃Ru₂

Fe-00999

**μ-Carbonylhexacarbonyl(μ-carbonylpentacarbonyldiiron)d-
i-μ-hydrodiruthenium***Tridecacarbonyldihydrodiirondiruthenium*

[65724-47-2]



M 679.985

Obt. only as mixt. with

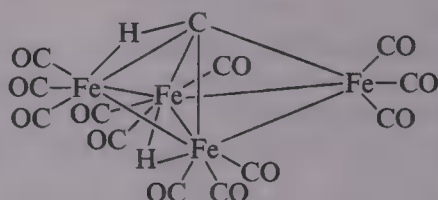
Tridecacarbonyldihydroirondiruthenium, Fe-00997.

Geoffroy, G.L. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 7565 (*synth*, *ms*, *ir*)C₁₃H₂Fe₄O₁₂

Fe-01000

**Dodecacarbonyl-μ-hydro[μ₄-(methylidyne-C:C:C-
:C,H)]tetrairon, 10Cl**

[74792-06-6]



M 573.540

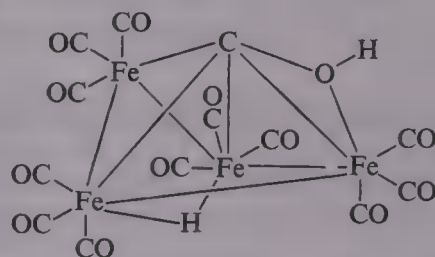
Stereochemically non-rigid. Black cryst. (hexane).

Tachikawa, M. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 4541 (*synth*, *ms*, *ir*, *cmr*)Beno, M.A. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 4542; 1981, **103**, 1485 (*struct*)Holt, E.M. *et al*, *J. Organomet. Chem.*, 1981, **213**, 125 (*synth*, *ir*, *pmr*)C₁₃H₂Fe₄O₁₃

Fe-01001

**Dodecacarbonyl-μ-hydro[μ₄-(hydroxymethylidyne-C:C:C-
:C,O)]tetrairon, 10Cl***Tridecacarbonyldihydrotetrairon, 9Cl*

[56731-29-4]



M 589.539

Characterised spectroscopically in soln. V. unstable at ambient temps.

Whitmire, K.H. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 6754 (*synth*, *cmr*, *pmr*)C₁₃H₅F₅FeO₂

Fe-01002

**Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(pentafluorophenyl)-
iron, 9Cl***σ-(Pentafluorophenyl)-π-cyclopentadienyliron
dicarbonyl*

[12176-60-2]

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron,
Fe-00173 withX = C₆F₅

M 344.020

Yellow-orange solid. Mp 142-3°. Subl. *in vacuo*.King, R.B. *et al*, *J. Organomet. Chem.*, 1964, **2**, 38 (*synth*, *ir*, *pmr*)Bruce, M.I., *J. Chem. Soc. (A)*, 1968, 1459 (*nmr*)King, R.B. *et al*, *J. Inorg. Nucl. Chem.*, 1970, **32**, 441 (*mössbauer*)Roe, D.M. *et al*, *J. Organomet. Chem.*, 1970, **23**, 547 (*synth*)Gansow, O.A. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 3406 (*ir*, *cmr*)Downs, R.L. *et al*, *Inorg. Chim. Acta*, 1978, **27**, 91 (*synth*)C₁₃H₅F₅FeO₂S

Fe-01003

**Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(pentafluorobenzen-
ethiolato)iron, 9Cl***Dicarbonyl-π-cyclopentadienyl(pentafluorophenyl-
thio)iron. Cyclopentadienyldicarbonyliron
pentafluorophenylmercaptide*

[12289-00-8]

As Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)
(difluorophosphinothioyl-*P*)iron, Fe-00189 withL = SC₆F₅

M 376.080

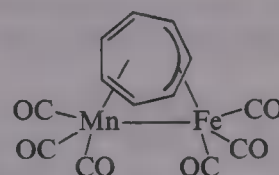
Purple needles (hexane). Mp 93°.

Cooke, J. *et al*, *J. Chem. Soc. (A)*, 1968, 170 (*synth*, *pmr*, *nmr*, *ir*)C₁₃H₇FeMnO₆

Fe-01004

**Tricarbonyl[μ-[(1,2,3-η:4,5,6,7-η)-2,4,6-cycloheptatrien-
1-yl]](tricarbonyliron)manganese, 9Cl***μ-[(1,2,3-η:4,5,6,7-η)-Cycloheptatrienyl]tricarbonyli-
rontricarbonylmanganese*

[60767-46-6]



M 369.980

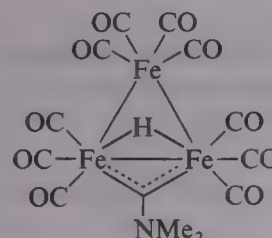
Fluxional molecule. Orange cryst. (pentane). Mp 141-2°.

Bennett, M.J. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 4810 (*synth*, *pmr*, *cmr*, *ms*, *ir*)C₁₃H₇Fe₃NO₁₀

Fe-01005

**Decacarbonyl[μ-[(dimethylamino)methylidyne]]-μ-hydrotri-
iron, 8Cl**

[29132-22-7]



M 504.740

Red-black cryst. (pentane). Mp 162-4° dec.

- Rhee, I. *et al*, *J. Chem. Soc., Chem. Commun.*, 1968, 455 (*synth*)
 Greatrex, R. *et al*, *J. Chem. Soc., Chem. Commun.*, 1970, 1193 (*mössbauer*, *ms*, *pmr*)

C₁₃H₈FeO₃ Fe-01006

Tricarbonyl(phenylcyclobutadiene)iron

Tricarbonyl[(η^4 -1,3-cyclobutadien-1-yl)benzene]iron, η^4 Cl

[31781-22-3]

As (η^4 -1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with

R = Ph

M 268.051

Bright-yellow cryst. (pentane). Mp 68.0-68.5°.

Brune, H.A. *et al*, *Tetrahedron*, 1970, **26**, 3099 (*synth*, *pmr*, *ms*, *ir*)

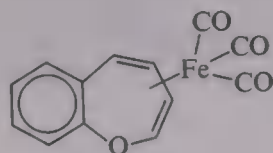
Brune, H.A. *et al*, *Z. Naturforsch., B*, 1973, **28**, 656 (*cmr*)

Pruitt, P.L. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1977, 907 (*pmr*)

C₁₃H₈FeO₄ Fe-01007

(Benzoxepin)tricarbonyliron

Tricarbonyl[(3,4,5,6- η)-1-benzoxepin]iron
 [12276-81-2]



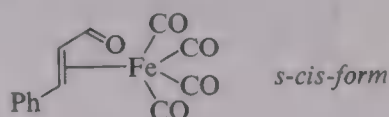
M 284.051

Yellow cryst. Mp 116-7°. Bp 80-90° subl. *in vacuo*.

Fischer, E.O. *et al*, *Chem. Ber.*, 1967, **100**, 1905 (*synth*, *ir*, *pmr*)

C₁₃H₈FeO₅ Fe-01008Tetracarbonyl[(2,3- η)-3-phenyl-2-propenal]iron, η^4 Cl

Tetracarbonyl(cinnamaldehyde)iron
 [38720-32-0]



M 300.050

Yellow cryst. (C₆H₆/pet. ether). Mp 87-92°. C₆H₆ solns. contain 77% *s-cis*-form.

Collins, R.L. *et al*, *J. Chem. Phys.*, 1963, **39**, 3433 (*mössbauer*)

Weiss, E. *et al*, *Helv. Chim. Acta*, 1963, **27**, 288 (*synth*, *ir*, *pmr*)

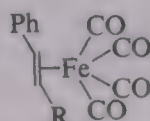
Cardaci, G., *J. Am. Chem. Soc.*, 1975, **97**, 1412 (*ir*)

Sorriso, J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 1041.

Jenny, T. *et al*, *J. Organomet. Chem.*, 1981, **205**, 211 (*nmr*)

C₁₃H₈FeO₆ Fe-01009Tetracarbonyl[(2,3- η)-3-phenyl-2-propenoic acid]iron

Tetracarbonyl(cinnamic acid)iron, η^4 Cl



R = COOH

M 316.050

Yellow cryst. (MeOH). Mp 110° dec. pK_a 4.90 (20% MeCN aq.).

Me ester: [31798-65-9].

C₁₄H₁₀FeO₆ M 330.076

Yellow cryst. (pet. ether). Mp 63.5°.

Weiss, E. *et al*, *Helv. Chim. Acta*, 1963, **27**, 288 (*synth*, *ir*, *pmr*)

Dessy, R.E. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 3947

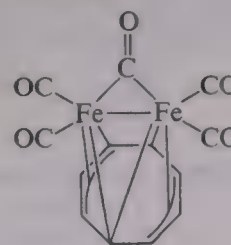
(*mössbauer*, *ir*, *uv*, *props*)

Reichenbach, G. *et al*, *J. Organomet. Chem.*, 1977, **134**, 47 (*synth*, *uv*, *ir*)

C₁₃H₈Fe₂O₅ Fe-01010 μ -Carbonyltetracarboxylate[(1,2,3,4- η :5,6,7,8- η)-1,3,5,7-cyclooctatetraene]diiron, η^4 Cl

Pentacarboxyl(cyclooctatetraene)diiron. (Cyclooctatetraene)pentacarboxyldiiron

[12085-58-4]



M 355.897

Fluxional molecule. Dark-red prismatic cryst. (C₆H₆).

Mp ca. 220° dec. Identical with the compound previously described as C₈H₈Fe₂(CO)₇.

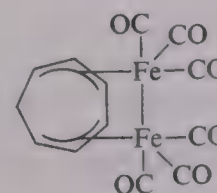
Keller, C.E. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 1390 (*synth*, *ir*, *pmr*)

Fleischer, E.B. *et al*, *J. Am. Chem. Soc.*, 1966, **88**, 3158 (*struct*)

Schwartz, J., *J. Chem. Soc., Chem. Commun.*, 1972, 814 (*synth*)

C₁₃H₈Fe₂O₆ Fe-01011 μ -Hexacarboxylate[(1,2,3- η :4,5,6- η)-1,3,5-cycloheptatriene]diiron, η^4 Cl

[34738-60-8]



M 371.897

Air-stable lustrous orange-red platelets (pentane). Mp 120-40° dec.

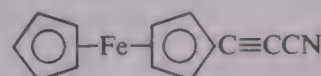
Cotton, F.A. *et al*, *J. Am. Chem. Soc.*, 1971, **93**, 5069 (*synth*, *struct*, *ir*, *pmr*)

Deganello, G. *et al*, *J. Organomet. Chem.*, 1973, **59**, 329 (*cmr*)

C₁₃H₉FeN Fe-01012(Cyanoethynyl)ferrocene, η^4 Cl

3-Ferrocenylpropynenitrile. 1-Cyano-2-ferrocenylacetylene

[36119-35-4]



M 235.068

Solid. Mp 118-9°.

Koridze, A.A., *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1971, 2616 (*synth*)

C₁₃H₁₀FeHgO₂ Fe-01013

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(phenylmercury)iron, ⁹Cl
Dicarbonyl-π-cyclopentadienyl(phenylmercurio)iron.
(Cyclopentadienyldicarbonyliron)phenylmercury
 [41617-44-1]

As (Bromomercury)dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, Fe-00171 with

X = Ph

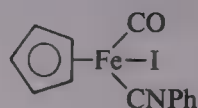
M 454.658

Orange cryst. Mp 101°.

Roberts, R.M.G., *J. Organomet. Chem.*, 1973, **47**, 359 (*synth*, *ir*, *pmr*)

C₁₃H₁₀FeINO Fe-01014

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)iido(isocyanobenzene)-iron, ⁹Cl
Carbonyl-π-cyclopentadienyliido(phenyl isocyanide)-iron, ⁸Cl. Cyclopentadienylcarbonyl(phenyl isonitrile)-iron iodide. (η⁵-Cyclopentadienyl)carbonyliido(phenyl isocyanide)iron
 [32626-64-5]



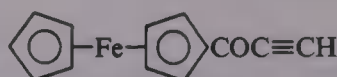
M 378.980

Brown cryst. (CH₂Cl₂/pet. ether). Mp 108°.

Joshi, K.K. *et al*, *J. Organomet. Chem.*, 1963, **1**, 51 (*synth*, *ir*)
 Becker, W. *et al*, *Z. Naturforsch., B*, 1970, **25**, 1332 (*nmr*, *ir*)

C₁₃H₁₀FeO Fe-01015

1-Ferrocenyl-2-propyn-1-one
(1-Oxo-2-propynyl)ferrocene, ¹⁰Cl. Propioloylferrocene. Cyclopentadienyl(propioloylcyclopentadienyl)iron
 [63510-06-5]



M 238.068

Red cryst. (C₆H₆/pet. ether). Mp 78-80°.

Schlögl, K. *et al*, *Monatsh. Chem.*, 1962, **93**, 861 (*synth*)
 Takeo, M. *et al*, *Chem. Lett.*, 1980, 361 (*synth*)

C₁₃H₁₀FeOS₃ Fe-01016

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)(phenyltrithiocarbonato-S,S')iron
Cyclopentadienylcarbonyliron phenyltrithiocarbonate. (Hydrogen trithiocarbonato)carbonylcyclopentadienyliron phenyl ester

As Carbonyl(η⁵-2,4-cyclopentadien-1-yl)(methyltrithiocarbonato-S,S')iron, Fe-00297 with

X = SPh

M 334.248

Deep-red cryst. (Et₂O/pet. ether). Mp 92°.

Bruce, R. *et al*, *J. Organomet. Chem.*, 1966, **6**, 67 (*synth*, *ir*, *pmr*)

C₁₃H₁₀FeO₂ Fe-01017

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)phenyliron, ⁹Cl
σ-Phenyl-π-cyclopentadienyliron dicarbonyl. (η¹-Phenyl)(η⁵-cyclopentadienyl)dicarbonyliron
 [12126-73-7]

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, Fe-00173 with

X = Ph

M 254.068

Yellow cryst. (pentane). Mp 35-6°.

King, R.B. *et al*, *J. Organomet. Chem.*, 1964, **2**, 15 (*synth*, *uv*, *ir*, *pmr*)

Gansow, O.A. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 3406 (*cmr*, *ir*, *pmr*)

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1974, **217**, 509 (*synth*)

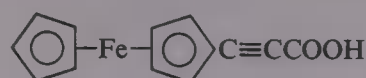
Ellis, J.E. *et al*, *J. Organomet. Chem.*, 1976, **111**, 331 (*synth*, *bibl*)

Zakharkin, L.I. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1977, 1673 (*synth*)

Kuhlmann, E.J. *et al*, *J. Organomet. Chem.*, 1979, **174**, 81 (*synth*)

C₁₃H₁₀FeO₂ Fe-01018

3-Ferrocenyl-2-propynoic acid
(Carboxyethynyl)ferrocene, ¹⁰Cl. Ferrocenepropiolic acid, ⁸Cl
 [1291-50-5]



M 254.068

Dark-red cryst. Mp 122° with effervescence.

Benkeser, R.A. *et al*, *J. Org. Chem.*, 1961, **26**, 4179 (*synth*, *ir*)

Cais, M. *et al*, *Isr. J. Chem.*, 1969, **7**, 73 (*ms*)

C₁₃H₁₀FeO₂S Fe-01019

(Benzenethiolato)dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, ⁹Cl
Dicarbonyl-π-cyclopentadienyl(phenylthio)iron. Cyclopentadienyldicarbonyliron phenylmercaptide
 [12110-44-0]

As Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(difluorophosphinothioyl-P)iron, Fe-00189 with

L = SPh

M 286.128

Vermilion cryst. (Et₂O/pentane). Mp 80.5°.

Ahmad, M. *et al*, *J. Organomet. Chem.*, 1966, **6**, 1 (*synth*, *ir*, *pmr*)

C₁₃H₁₀FeO₂Se Fe-01020

(Benzeneselenolato)dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)-iron
Cyclopentadienyldicarbonyliron phenylselenide. (η⁵-Cyclopentadienyl)dicarbonyl(phenylselenolato)iron
 [32799-79-4]

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, Fe-00173 with

X = -SePh

M 333.028

Dark cryst. (CH₂Cl₂/hexane). Mp 50-2°.

Schermer, E.D. *et al*, *J. Organomet. Chem.*, 1971, **27**, 83 (*synth*, *pmr*, *ir*)

C₁₃H₁₀FeO₂Te **Fe-01021**
(Benzenetellurolato)dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)-iron

Cyclopentadienyldicarbonyliron phenyltelluride. (η⁵-Cyclopentadienyl)dicarbonyl(phenyltellurolato)iron [32802-67-8]

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, Fe-00173 with



M 381.668

Green cryst. (CH₂Cl₂/hexane). Mp 66°.

Schermer, E.D. *et al*, *J. Organomet. Chem.*, 1971, **27**, 83 (*synth*, *pmr*, *ir*)

C₁₃H₁₀FeO₃ **Fe-01022**
[(η⁴-1,3-Butadienyl)benzene]tricarbonyliron, 9Cl

Tricarbonyl(1-phenyl-1,3-butadiene)iron

As (η⁴-1-Bromo-1,3-butadiene)tricarbonyliron, Fe-00174 with



M 270.067

syn-form [12085-62-0]

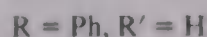
Yellow cryst. (pentane). Mp 60-1°.

Landesberg, J.M. *et al*, *J. Organomet. Chem.*, 1972, **35**, 327 (*synth*, *ir*, *uv*, *pmr*)

C₁₃H₁₀FeO₃ **Fe-01023**
Tricarbonyl(η⁴-2-methylene-1-phenyl-1,3-propanediyl)iron, 9Cl

Tricarbonyl(π,σ-2-methylene-1-phenyltrimethylene)-iron, 8Cl. (2-Benzylidenetrimethylene)tricarbonyliron, 8Cl. (Phenyltrimethylenemethane)iron tricarbonyl [36645-11-1]

As Tricarbonyl[η⁴-2-(oxoethylidene)-1,3-propanediyl]-iron, Fe-00273 with



M 270.067

Yellow plates (EtOH). Mp 63.5-64.2°. Bp_{0.5} 110-4°.

Churchill, M.R. *et al*, *Inorg. Chem.*, 1969, **8**, 401 (*struct*)
Noyori, R. *et al*, *J. Chem. Soc., Chem. Commun.*, 1969, 89 (*synth*, *ir*)

Ehrlich, K. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 2464 (*synth*)
Pinhas, A.R. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 1668 (*synth*, *pmr*)

C₁₃H₁₀FeO₄ **Fe-01024**
Tricarbonyl(acetylcyclooctatetraene)iron

Tricarbonyl[η⁴-1,3,5,7-cyclooctatetraene-1-ylethanone]-iron, 9Cl. Tricarbonyl(1,3,5,7-cyclooctatetraen-1-yl methyl ketone)iron, 8Cl [33363-31-4]

As Tricarbonyl[(1,2,3,8-η)-1-methoxy-1,3,5,7-cyclooctatetraene]iron, Fe-00865 with



M 286.067

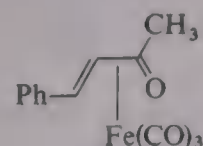
Exhibits valence tautomerism with form A predominating in soln. at r.t. Red oil. Bp_{0.05} 100°.

Johnson, B.F.G. *et al*, *J. Chem. Soc. (A)*, 1971, 422 (*synth*, *ms*, *ir*, *pmr*)

Paquette, L.A. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 4658 (*pmr*)

C₁₃H₁₀FeO₄ **Fe-01025**

Tricarbonyl[(O,2,3,4-η)-4-phenyl-3-buten-2-one]iron, 9Cl
1-Phenyl-1-buten-3-onetricarbonyliron. Tricarbonyl-(benzylideneacetone)iron. (Benzylideneacetone)tricarbonyliron [38333-35-6]



M 286.067

Intermed. for synth. of Fe(CO)₃ complexes. Orange-red or dark-red cryst. Mp 88-9°.

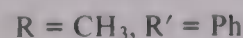
Howell, J. *et al*, *J. Organomet. Chem.*, 1972, **39**, 329 (*synth*, *ir*, *pmr*)

Cardaci, G., *J. Am. Chem. Soc.*, 1975, **97**, 1412 (*ir*)

C₁₃H₁₀FeO₄ **Fe-01026**

Tricarbonyl[(O,1,2,3-η)-1-phenyl-2-buten-1-one]iron, 9Cl
[57596-20-0]

As [(O,2,3,4-η)-3-Buten-2-one]tricarbonyliron, Fe-00205 with



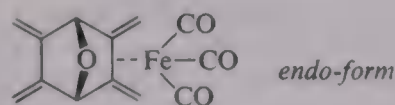
M 286.067

Orange needles (hexane). Mp 119-20° dec.

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1975, 2133 (*synth*, *ir*, *pmr*, *ms*)

Nesmeyanov, A.N. *et al*, *Zh. Obshch. Khim.*, 1978, **48**, 1815.

C₁₃H₁₀FeO₄ **Fe-01027**
Tricarbonyl[2,3,5,6-tetrakis(methylene)-7-oxabicyclo[2.2.1]-heptane]iron



M 286.067

endo-form [74244-37-4]

Yellow cryst. (Et₂O/pentane). Mp 92-4°.

exo-form [74227-06-8]

Yellow cryst. (Et₂O/pentane). Mp 91-4°.

Meier, E. *et al*, *J. Organomet. Chem.*, 1980, **186**, 247 (*synth*, *pmr*, *cmr*, *ir*, *ms*, *uv*, *struct*)

Granozzi, G. *et al*, *J. Organomet. Chem.*, 1982, **224**, 147 (*pe*)

C₁₃H₁₀FeO₄S **Fe-01028**

(Benzenesulfonyl)dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron
Dicarbonyl-π-cyclopentadienyl(phenylsulfonyl)iron.
(η⁵-Cyclopentadienyl)dicarbonyl(phenyl-S-sulfonato)-iron

As Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)
(difluorophosphinothioyl-P)iron, Fe-00189 with



M 318.127

Yellow cryst. (pentane/CHCl₃). Sol. org. solvs., conc. HCl. Mp 137°.Bibler, J.P. *et al*, *J. Am. Chem. Soc.*, 1966, **88**, 4862 (*synth*, *ir*, *pmr*)C₁₃H₁₀FeO₄S

Fe-01029

Tricarbonyl[(1-(phenylsulfinyl)-1,3-butadiene)]iron

[[(η^4 -1,3-Butadienyl)sulfinyl]benzene]tricarbonyliron, 10ClAs (η^4 -1-Bromo-1,3-butadiene)tricarbonyliron, Fe-00174 with

X = SOPh

M 318.127

No phys. props. reported.

Gaoni, Y., *Tetrahedron Lett.*, 1977, 4521 (*synth*)C₁₃H₁₀FeO₅

Fe-01030

Tetracarbonyl(ethoxyphenylmethylene)iron, 9Cl
[35797-87-6](OC)₄Fe=C(OEt)Ph

M 302.066

Brown-red volatile oil, stable for 2 to 3 days under N₂ at -20°. V. sol. org. solvs. Sinters on heating and dec. with gas evolution.Fischer, E.O. *et al*, *Chem. Ber.*, 1972, **105**, 162 (*synth*, *ms*, *ir*, *pmr*)Conder, H.L. *et al*, *Inorg. Chem.*, 1974, **13**, 506 (*synth*)C₁₃H₁₀FeO₅

Fe-01031

Tricarbonyl[methyl(3,4,5,6- η)-1,3,5,7-cyclooctatetraene-1-carboxylate]iron, 9ClTricarbonyl(1,3,5,7-cyclooctatetraene-1-carboxylic acid methyl ester)iron, 8Cl. Tricarbonyl[(1,2,3,4- η)-5-methoxycarbonyl-1,3,5,7-cyclooctatetraene]iron

[57142-22-0]

As Tricarbonyl[(1,2,3,8- η)-1-methoxy-1,3,5,7-cyclooctatetraene]iron, Fe-00865 with

R = COOMe

M 302.066

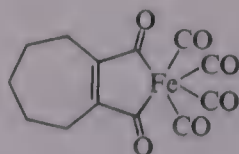
Exhibits valence tautomerism with form A predominating in soln. at r.t. Dark-red cryst. Mp 52.5-53°. Bp_{0.01} 48° subl.Keller, C.E. *et al*, *J. Am. Chem. Soc.*, 1966, **88**, 4760 (*pmr*)Becker, Y. *et al*, *J. Chem. Soc., Chem. Commun.*, 1972, 1156 (*synth*, *ir*)Paquette, L.A. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 4658 (*synth*, *ir*, *pmr*)C₁₃H₁₀FeO₆

Fe-01032

Tetracarbonyl[(1-cycloheptene-1,2-diyl)dicarbonyl]iron

Tetracarbonyl(1-cycloheptene-1,2-dicarbonyl)iron, 8Cl

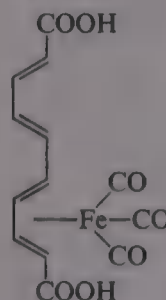
[16165-06-3]



M 318.065

Orange cryst. (C₆H₆). Mp 155° dec.Bird, C.W. *et al*, *J. Chem. Soc. (C)*, 1967, 1862 (*synth*, *ir*)C₁₃H₁₀FeO₇

Fe-01033

Tricarbonyl[(2,3,4,5- η)-2,4,6,8-decatetraenedioic acid]iron

M 334.065

(±)*syn, syn-form*

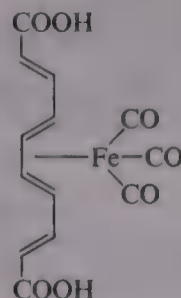
Di-Me ester: [35914-20-6].

C₁₅H₁₄FeO₇ M 362.118

Mp 123-5°.

Whitlock, H.W. *et al*, *J. Am. Chem. Soc.*, 1971, **93**, 5290, 5291 (*synth*, *pmr*)C₁₃H₁₀FeO₇

Fe-01034

Tricarbonyl[(4,5,6,7- η)-2,4,6,8-decatetraenedioic acid]iron

M 334.065

syn, syn-form

Di-Me ester: [35914-19-3].

C₁₅H₁₄FeO₇ M 362.118

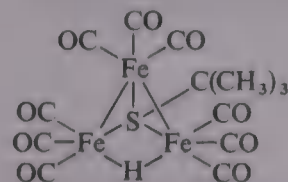
Mp 107.5-109°.

Whitlock, H.W. *et al*, *J. Am. Chem. Soc.*, 1971, **93**, 5290, 5291 (*synth*, *pmr*)C₁₃H₁₀Fe₃O₉S

Fe-01035

Nonacarbonyl- μ -hydro[μ_3 -(2-methyl-2-propanethiolato)]tri-iron, 8Cl

[56421-55-7]



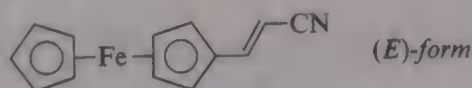
M 509.818

Red cryst. (C₆H₆/pet. ether). Bp_{0.01} 55° subl.De Beer, J.A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1970, 288 (*synth*, *ir*, *ms*, *pmr*)De Beer, J.A. *et al*, *J. Organomet. Chem.*, 1970, **24**, 757 (*synth*, *ir*, *pmr*)Bau, R. *et al*, *Inorg. Chem.*, 1975, **14**, 3021 (*struct*, *mössbauer*)Winter, A. *et al*, *Chem. Ber.*, 1982, **115**, 1286 (*struct*)

C₁₃H₁₁FeN

Fe-01036

(2-Cyanoethenyl)ferrocene, 9Cl

1-Cyano-2-ferrocenylethylene. 3-Ferrocenylacrylonitrile
[33009-52-8]

M 237.084

(E)-form [32626-63-4]

Orange-yellow. Mp 94.8-95.2°.

(Z)-form [32992-31-7]

Orange-yellow. Mp 82-3°.

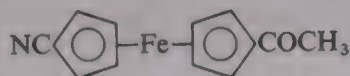
Asano, R. *et al*, *J. Chem. Soc. (C)*, 1971, 3691 (*synth*, *ir*, *pmr*)
Kasahara, A. *et al*, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 895 (*synth*,
ir, *pmr*)Koridze, A.A. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1974,
2156 (*cmr*)Borowiak, T., *CA*, 1976, **84**, 143208 (*struct*)C₁₃H₁₁FeNO

Fe-01037

1-Acetyl-1'-cyanoferrocene, 9Cl

1'-Acetyl-1-ferrocenecarbonitrile

[12276-85-6]



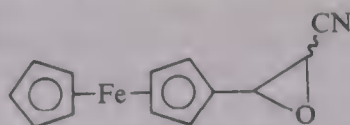
M 253.083

Mp 99.8-101°. Bp_{0.2} 145-6°.Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*,
1962, 1772 (*synth*)Hall, D.W. *et al*, *J. Org. Chem.*, 1963, **28**, 1549 (*synth*, *ir*, *uv*)Kazakova, L.I. *et al*, *Zh. Obshch. Khim.*, 1973, **43**, 1577 (*synth*,
pmr)C₁₃H₁₁FeNO

Fe-01038

(3-Cyanooxiranyl)ferrocene

1-Cyano-2-ferrocenyloxirane



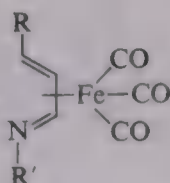
M 253.083

Stereochemistry unknown. Bright-yellow solid. Mp 75-
6°.Koridze, A.A. *et al*, *Zh. Obshch. Khim.*, 1969, **39**, 1649 (*synth*,
ir)C₁₃H₁₁FeNO₃

Fe-01039

(η⁴-N-2-Butenylideneaniline)tricarbonyliron(η⁴-N-2-Butenylidenebenzenamine)tricarbonyliron, 9Cl.
(Crotonaldehyde anil)iron tricarbonyl

[53822-54-1]

R = CH₃, R' = Ph

M 285.082

Air-sensitive red oil or cryst. Mp 32-5°.

Becker, Y. *et al*, *Tetrahedron*, 1974, **30**, 839 (*synth*, *ir*, *pmr*)C₁₃H₁₁FeNO₃

Fe-01040

Tricarbonyl[η⁴-N-(3-phenyl-2-propenylidene)methanamine]-
iron, 10Cl

[73643-79-5]

As (η⁴-N-2-Butenylideneaniline)tricarbonyliron, Fe-
01039 with

R = Ph, R' = Me

M 285.082

Characterised spectroscopically.

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1979, **182**, 393
(*synth*, *ir*)C₁₃H₁₁FeNO₄

Fe-01041

Tetracarbonyl[(dimethylamino)phenylmethylene]iron, 9Cl

[35797-88-7]

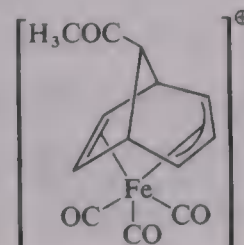
(OC)₄Fe=C(NMe₂)Ph

M 301.081

Light-yellow fine needles. Mp 106° dec.

Fischer, E.O. *et al*, *Chem. Ber.*, 1972, **105**, 162 (*synth*, *ms*, *ir*,
pmr)Petz, W. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1972, **11**, 934
(*nmr*)C₁₃H₁₁FeO₄⁺

Fe-01042

[(2,3,4,6,7-η)-8-Acetylbicyclo[3.2.1]octa-3,6-dien-2-yl]tri-
carbonyliron(1+), 10ClTricarbonyl[8-acetyl-2-4:6-7-η-bicyclo[3.2.1]octadi-
enylium]iron(1+)

M 287.075 (ion)

Hexafluorophosphate: [63081-09-4].

C₁₃H₁₁F₆FeO₄P M 432.039

Cryst.

Charles, A.D. *et al*, *J. Organomet. Chem.*, 1977, **128**, C31
(*synth*, *struct*)C₁₃H₁₂CrFeP₂O₉

Fe-01043

Tetracarbonyl[μ-(tetramethyldiphosphine)](pentacarbonyl-
chromium)iron, 8Cl

[34406-98-9]

(OC)₅CrPMe₂PMe₂Fe(CO)₄

M 482.023

Yellow. Mp 96°.

Vahrenkamp, H. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1971, **10**,
513 (*synth*)

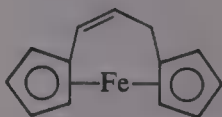
C₁₃H₁₂Fe

Fe-01044

[3]Ferrocenophan-1-ene

1,1'-Propenyleneferrocene, 8Cl. 1,1'-(1,3-Propenediyl)-ferrocene. 1,2-Dehydro[3]ferrocenophane. Dehydro-1,1'-trimethyleneferrocene

[32628-46-9]



M 224.085

Yellow cryst. by subl. Mp 101-102.5°.

Applebaum, M.N. *et al*, *J. Org. Chem.*, 1964, **29**, 2452 (*synth*, *pmr*, *uv*)

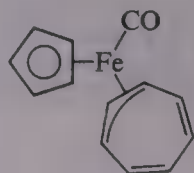
Sonoda, A. *et al*, *J. Organomet. Chem.*, 1971, **26**, 133 (*synth*)

C₁₃H₁₂FeO

Fe-01045

Carbonyl[(1,2,3- η)-2,4,6-cycloheptatrien-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, 9Cl

[33221-66-8]



M 240.084

Fluxional. Red cryst. (pet. ether). Mp 98-9°. Dec. by hydroxylic solvs.

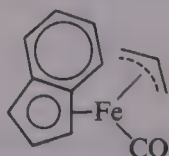
Ciappenelli, D. *et al*, *J. Am. Chem. Soc.*, 1969, **91**, 3673, 6876 (*synth*, *ir*, *ms*, *pmr*)

C₁₃H₁₂FeO

Fe-01046

Carbonyl[(1,2,3,3a,7a- η)-1H-inden-1-yl](η^3 -2-propenyl)iron, 9Cl π -Allylcarbonyl- π -indenyliron

[52326-27-9]



M 240.084

Air-sensitive red-orange needles (pentane).

Faller, J.W. *et al*, *J. Organomet. Chem.*, 1974, **65**, 395 (*synth*, *ir*, *pmr*)

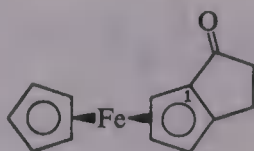
C₁₃H₁₂FeO

Fe-01047

(η^5 -2,4-Cyclopentadien-1-yl)((3a,4,5,6,6a- η)-2,3-dihydro-1-oxo-3a(1H)-pentalenyl)iron, 9Cl

2,3-Ferrocenocyclopentenone

[38959-05-6]



M 240.084

(1S)-form

(R)_{planar}-form

Dark-red cryst. (MeOH). Mp 82-3°. [α]_D -49° (c, 0.32 in EtOH).

Shirafuji, T. *et al*, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 2884 (*synth*, *pmr*, *ord*, *cd*, *ir*, *ms*)

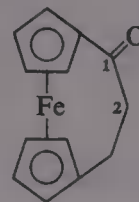
C₁₃H₁₂FeO

Fe-01048

[3]Ferrocenophan-1-one

1,1'-(1-Oxo-1,3-propanediyl)ferrocene, 9Cl. 1-Keto[3]-ferrocenophane. 1-Oxo[3]ferrocenophane

[12085-78-8]



M 240.084

Mp 144-5°.

Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 3290; 1963, **85**, 970 (*synth*, *ir*, *uv*, *pmr*)

Jones, N.D. *et al*, *Acta. Crystallogr.*, 1965, **19**, 330 (*cryst struct*)

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1974, **218**, 1107 (*cmr*, *pmr*)

Abramovitch, R.A. *et al*, *Inorg. Chem.*, 1975, **14**, 3085 (*mössbauer*)

C₁₃H₁₂FeO

Fe-01049

[3]Ferrocenophan-2-one

1,1'-(2-Oxo-1,3-propanediyl)ferrocene, 9Cl. 2-Keto[3]-ferrocenophane. 2-Oxo[3]ferrocenophane

[32626-67-8]

M 240.084

Yellow-orange needles (heptane). Mp 154-5°.

Mock, W. *et al*, *J. Org. Chem.*, 1962, **27**, 4050 (*synth*)

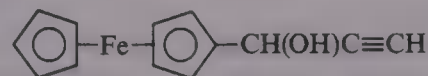
Good, M.L. *et al*, *CA*, 1975, **82**, 97247 (*mössbauer*)

C₁₃H₁₂FeO

Fe-01050

1-Ferrocenyl-2-propyn-1-ol

(1-Hydroxy-2-propynyl)ferrocene. Cyclopentadienyl[(1-hydroxy-2-propynyl)cyclopentadienyl]iron



M 240.084

(±)-form

Cryst. (C₆H₆/pet. ether). Mp 81-3°. Bp_{0.5} 100-10°.

Schlögl, K. *et al*, *Monatsh. Chem.*, 1961, **92**, 219 (*synth*)

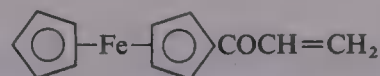
C₁₃H₁₂FeO

Fe-01051

(1-Oxo-2-propenyl)ferrocene, 9Cl

Acryloylferrocene. Ferrocenyl vinyl ketone

[12154-64-2]



M 240.084

Red cryst. (hexane). Mp 73.5-74°. Thermally polymerised.

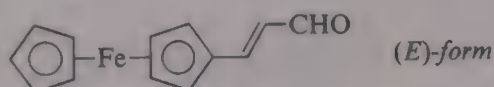
Hauser, C.R. *et al*, *J. Org. Chem.*, 1961, **26**, 1800 (*synth*, *ir*)

Schlögl, K. *et al*, *Monatsh. Chem.*, 1962, **93**, 861 (*synth*)

C₁₃H₁₂FeO

Fe-01052

(3-Oxo-1-propenyl)ferrocene, 9Cl

3-Ferrocenylpropenal. Ferrocenylacraldehyde
[32982-01-7]

M 240.084

Mp 90-5°.

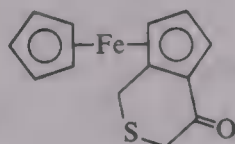
(E)-form [36222-48-7]

Violet cryst (pet. ether). Mp 97-8° (93-6°).

Oxime: Mp 180° dec.

Schlögl, K. *et al*, *Monatsh. Chem.*, 1962, **93**, 861; 1965, **96**, 1520 (synth)Schlögl, K. *et al*, *Justus Liebigs Ann. Chem.*, 1964, **676**, 76, 88 (synth, uv, deriv)Dudnik, P. *et al*, *J. Organomet. Chem.*, 1969, **18**, 365 (synth, ir, pmr)Asano, R. *et al*, *J. Chem. Soc. (C)*, 1971, 3691 (synth, ir, pmr)Kasahara, A. *et al*, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 895 (synth, ir)Vittal, E.E. *et al*, *Zh. Obshch. Khim.*, 1973, **43**, 590 (synth)C₁₃H₁₂FeOS

Fe-01053

(η⁵-2,4-Cyclopentadien-1-yl)((4a,5,6,7,7a-η)-1,3,4-trihydro-4-oxocyclopenta[c]thiopyran-4a-yl)iron
1,2-(2'-Thia-4'-ketotetramethylene)ferrocene

M 272.144

Dark-red cryst. Mp 66-7°.

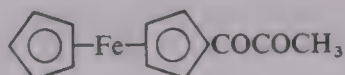
Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1965, 1882 (synth)C₁₃H₁₂FeO₂

Fe-01054

1-Ferrocenyl-1,2-propanedione

(1,2-Dioxopropyl)ferrocene, 9Cl. Ferrocenyl(methyl)-glyoxal

[42552-73-8]



M 256.084

Violet cryst. (pet. ether). Mp 100-2°.

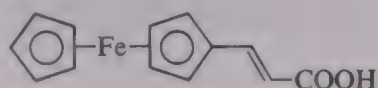
Toma, S. *et al*, *J. Organomet. Chem.*, 1973, **55**, 371 (synth, ir, pmr)C₁₃H₁₂FeO₂

Fe-01055

3-Ferrocenyl-2-propenoic acid

(2-Carboxyethenyl)ferrocene, 10Cl. Ferroceneacrylic acid, 8Cl. 2-Ferrocenylacrylic acid. (2-Carboxyvinyl)-ferrocene

[12154-65-3]



M 256.084

(E)-form [67462-91-3]

Bright-red needles or rhombic cryst. (CH₂Cl₂/hexane).Mp 188-91° dec. Bp_{0.1} 130° subl.

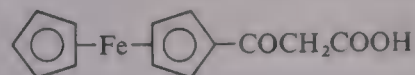
p-Nitrophenyl ester: Metallic red cryst. Mp 158-9°.

Hauser, C.R. *et al*, *J. Org. Chem.*, 1957, **22**, 906 (synth)Schlögl, K., *Monatsh. Chem.*, 1957, **88**, 601 (synth, uv)Roberts, D.T. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 973 (synth)Cais, M. *et al*, *Isr. J. Chem.*, 1969, **7**, 73 (ms)Boev, V.I. *et al*, *Zh. Obshch. Khim.*, 1980, **50**, 121 (synth)Breslow, R. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 762 (synth)Senda, Y. *et al*, *Bull. Chem. Soc. Jpn.*, 1980, **53**, 3381 (pmr)C₁₃H₁₂FeO₃

Fe-01056

3-Ferrocenyl-3-oxopropanoic acid

Ferrocenylethanoic acid. Ferrocenylacetic acid. β-Ox-ferrocenepropanoic acid



M 272.083

Free acid not known.

Et ester: Ethyl ferrocenylacetate.

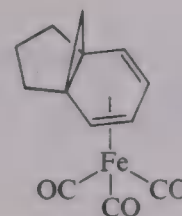
C₁₅H₁₆FeO₃ M 300.137Orange needles (hexane/C₆H₆). Mp 49-54.5°, 57.5-58.5°.Hauser, C.R. *et al*, *J. Org. Chem.*, 1957, **22**, 482 (synth)Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 3263 (synth)Roberts, D.T. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 973 (synth)C₁₃H₁₂FeO₃

Fe-01057

Tricarbonyl[(2,3,4,5-η)-tricyclo[4.3.1.0^{1,6}]deca-2,4-diene]ironTricarbonyl(tricyclo[4.3.1.0^{1,6}]deca-2,4-diene)iron.

Tricarbonyl(3a,7a-methanoindan)iron, 8Cl

[32354-42-0]



M 272.083

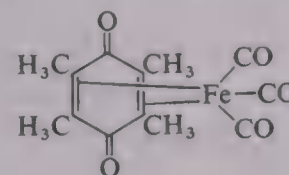
Solid. Mp 49°.

Bleck, W.-E. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1970, **9**, 303 (synth, pmr, uv)Beddoes, R.L. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1970, **9**, 304 (cryst struct)C₁₃H₁₂FeO₅

Fe-01058

Tricarbonyl[(2,3,5,6-η)-2,3,5,6-tetramethyl-2,5-cyclohexadiene-1,4-dione]iron

Tricarbonyl[(2,3,5,6-η)-1,4-dioxo-2,3,5,6-tetramethyl-2,5-cyclohexadiene]iron. (Duroquinone)tricarbonyliron. (Tetramethyl-p-benzoquinone)iron tricarbonyl



M 304.082

Large orange cryst. Mp ~50° dec.

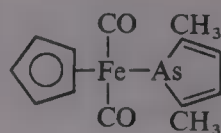
Sternberg, H.W. *et al*, *J. Am. Chem. Soc.*, 1958, **80**, 1009 (synth, ir)Schrauzer, G.N. *et al*, *J. Organomet. Chem.*, 1964, **2**, 336 (uv)

C₁₃H₁₃AsFeO₂

Fe-01059

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(2,5-dimethyl-1H-arsol-1-yl)iron, 10Cl

[70215-62-2]



M 332.013

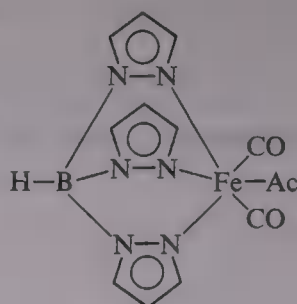
Dec. to arsaferrocenes. Red cryst.

Thiollet, G. *et al*, *Inorg. Chim. Acta*, 1979, **32**, L67 (*synth, ir*)C₁₃H₁₃BFeN₆O₃

Fe-01060

Acetyldicarbonyl[hydrotris(1H-pyrazolato-N¹)borato(1-)-N²,N²',N²'']iron, 9Cl

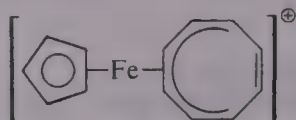
[43070-44-6]



M 367.941

Bright-yellow cryst. (CH₂Cl₂/hexane). Decarbonylates to the Fe-Me compd. in soln.Cotton, F.A. *et al*, *Inorg. Chim. Acta*, 1973, **7**, 161 (*synth, ir, pmr, struct*)C₁₃H₁₃Fe⁺

Fe-01061

[(1,2,3,4,5,6-η)-1,3,5,7-Cyclooctatetraene](η⁵-2,4-cyclopentadien-1-yl)iron(1+), 10Cl

M 225.093 (ion)

Hexafluorophosphate: [79122-13-7].

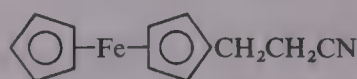
C₁₃H₁₃F₆FeP M 370.057Orange cryst. (CH₂Cl₂/hexane). Mp 186-7° dec.Gill, T.P. *et al*, *J. Organomet. Chem.*, 1981, **216**, 65 (*synth, pmr*)C₁₃H₁₃FeN

Fe-01062

(2-Cyanoethyl)ferrocene, 9Cl

1-Cyano-2-ferrocenylethane. Ferrocenepropionitrile

[37408-51-8]



M 239.099

Yellow plates (heptane). Mp 72-3°.

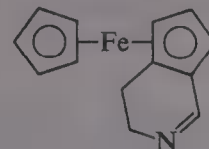
Nesmeyanov, A.N. *et al*, *Synth. React. Inorg. Metal-Org. Chem.*, 1971, **1**, 279 (*synth*)Rybinskaya, M.I. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1972, 2063 (*synth, ir, pmr*)Nesmeyanov, A.N. *et al*, *Zh. Strukt. Khim.*, 1973, **14**, 49 (*cmr*)Maier, N.A. *et al*, *Zh. Obshch. Khim.*, 1979, **49**, 2518 (*synth, props*)C₁₃H₁₃FeN

Fe-01063

(η⁵-2,4-Cyclopentadien-1-yl)((4a,5,6,7,7a-η)-3,4-dihydro-4aH-2-pyridin-4a-yl)iron, 9Cl

Ferrocene-5,6-dihydropyridine. 3',4'-Dihydropyrido(3',4')ferrocene

[53096-88-1]



M 239.099

(–)-form

Red liq. Bp_{0.001} 110-20°. [α]_D –1370° (c, 0.3 in EtOH).

(±)-form

Red-brown oil. Bp_{0.03} 125-30°.Osgerby, J.M. *et al*, *J. Chem. Soc.*, 1961, 4600 (*synth*)Schlögl, K. *et al*, *Monatsh. Chem.*, 1964, **95**, 576 (*synth, resoln, ir*)Schlögl, K., *Fortsch. Chem. Forsch.*, 1966, **6**, 479 (*rev*)C₁₃H₁₃FeO⁺

Fe-01064

[(1,2,3,4,5-η)-1-Acetyl-2,4-cyclopentadien-1-yl](η⁶-benzene)iron(1+), 9ClAs (η⁶-Benzene)(η⁵-1-chloro-2,4-cyclopentadien-1-yl)-iron(1+), Fe-00703 withX = COCH₃

M 241.092 (ion)

Hexafluorophosphate: [32760-76-2].

C₁₃H₁₃F₆FeOP M 386.056

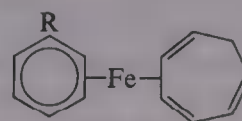
No phys. props. reported.

Astruc, D. *et al*, *Tetrahedron*, 1976, **32**, 245 (*synth*)Román, E. *et al*, *J. Chem. Soc., Chem. Commun.*, 1976, 512 (*polarog*)C₁₃H₁₄Fe

Fe-01065

(η⁶-Benzene)[(1,2,3,4-η)-1,3,5-cycloheptatriene]iron

[82798-51-4]



R = H

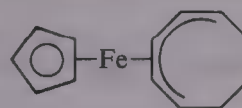
M 226.101

Air-sensitive red cryst. (Et₂O).Ittel, S.D. *et al*, *Organometallics*, 1982, **1**, 1432 (*synth, pmr*)C₁₃H₁₄Fe

Fe-01066

[(1,2,3,4,5-η)-2,4,6-Cyclooctatrien-1-yl](η⁵-2,4-cyclopentadien-1-yl)iron

π-Cyclooctatrienylium-π-cyclopentadienyliron, 8Cl



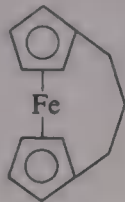
M 226.101

Greco, A. *et al*, *Chem. Ind. (Milan)*, 1970, **52**, 877; *CA*, **74**, 3715 (*synth*)

C₁₃H₁₄Fe

[3]Ferrocenophane

1,1'-(1,3-Propanediyl)ferrocene, 9Cl. 1,1'-Trimethyleneferrocene
[12302-04-4]



M 226.101

Bright-yellow plates (pet. ether). Mp 107-8°. Bp₂ 64° subl.

Lüttringhaus, A. *et al*, *Angew. Chem.*, 1958, **70**, 438;Makromol. Chem., 1961, **44-46**, 669 (synth)Mock, W. *et al*, *J. Org. Chem.*, 1962, **27**, 4050 (synth, ir)Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 3263 (synth)Rosenblum, M. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 316 (synth, uv, pmr)Winstead, J.A. *et al*, *J. Org. Chem.*, 1972, **37**, 2055 (pmr)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci.*Khim., 1974, **218**, 1107 (cmr, pmr)Duggan, D.M. *et al*, *Inorg. Chem.*, 1975, **14**, 955 (ir, uv, cation)Abramovitch, R.A. *et al*, *Inorg. Chem.*, 1975, **14**, 3085 (mössbauer)

Fe-01067

(+) -form [36548-93-3]

Oil. $[\alpha]_D^{25} +626^\circ$ (c, 1.5 in EtOH).

(–) -form

Oil. $[\alpha]_D^{25} -676^\circ$ (c, 1.7 in EtOH).Hill, E.A. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 4216 (synth)Benkeser, R.A. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 3742 (glc)Moise, C. *et al*, *Bull. Soc. Chim. Fr.*, 1971, 4562 (synth, resoln, ord)Eberhardt, R. *et al*, *Monatsh. Chem.*, 1973, **104**, 1409 (hplc)C₁₃H₁₄FeO

Fe-01071

1-Acetyl-3-methylferrocene, 9Cl

[12093-85-5]

M 242.100

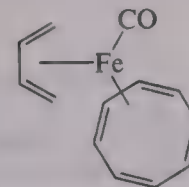
Mp 57.5-61.5°.

Hill, E.A. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 4216 (synth)Benkeser, R.A. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 3742 (glc)Moise, C. *et al*, *Bull. Soc. Chim. Fr.*, 1971, 4562 (synth)Eberhardt, R. *et al*, *Monatsh. Chem.*, 1973, **104**, 1409 (hplc)C₁₃H₁₄FeO

Fe-01072

(η⁴-1,3-Butadiene)carbonyl[(1,2,3,4-η)-1,3,5,7-cyclooctatetraene]iron, 9Cl

[32679-65-5]



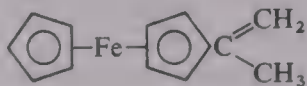
M 242.100

Fluxional C₈H₈ ligand. Dark-brown needles. Mp 131°.Carbonaro, A. *et al*, *J. Organomet. Chem.*, 1970, **25**, 477 (synth, pmr)Bassi, I. *et al*, *J. Organomet. Chem.*, 1972, **37**, 353 (cryst struct)C₁₃H₁₄Fe

Fe-01068

(1-Methylethenyl)ferrocene, 9Cl

Isopropenylferrocene. 2-Ferrocenylpropene
[31725-14-1]



M 226.101

Air-sensitive cryst. (pet. ether). Mp 77.5-78.5° (66-9°).

Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 2082 (uv)Hoh, G.L.K. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 3949 (synth)Horspool, W.M. *et al*, *Can. J. Chem.*, 1968, **46**, 3453 (synth, pmr)Gokel, G.W. *et al*, *J. Org. Chem.*, 1973, **38**, 1913 (synth, pmr)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci.*Khim., 1974, **219**, 614 (synth)Cardin, C.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1979, 970

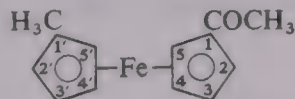
(pmr, uv)

C₁₃H₁₄FeO

Fe-01069

1-Acetyl-1'-methylferrocene, 9Cl

[12215-49-5]



M 242.100

Mp 42.7-43.2°.

Hill, E.A. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 4216 (synth)Benkeser, R.A. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 3742 (glc)Moise, C. *et al*, *Bull. Soc. Chim. Fr.*, 1971, 4562 (synth)Eberhardt, R. *et al*, *Monatsh. Chem.*, 1973, **104**, 1409 (hplc)C₁₃H₁₄FeO

Fe-01070

1-Acetyl-2-methylferrocene, 9Cl

[1294-01-5]

M 242.100

Mp 62.2-63.2°.

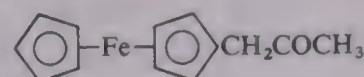
C₁₃H₁₄FeO

Fe-01074

(2-Oxopropyl)ferrocene, 9Cl

Acetonylferrocene. (Ferrocenylmethyl) methyl ketone.
Ferrocenylacetone. 1-Ferrocenyl-2-propanone

[12215-52-0]



M 242.100

Yellow-orange cryst. (hexane/C₆H₆). Dec. ca. 130°.

Sevenair, J.P. *et al*, *J. Org. Chem.*, 1972, **37**, 4061 (*synth*, *ir*)
 Ali, L.H. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1468 (*synth*,
ir, *pmr*, *uv*)

C₁₃H₁₄FeO₂ Fe-01075

(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-5-(methoxycarbonyl)-2,4-cyclohexadien-1-yl]iron, 10C1
 [59691-81-5]

As (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-5-(hydroxymethyl)-2,4-cyclohexadien-1-yl]iron, Fe-00940 with

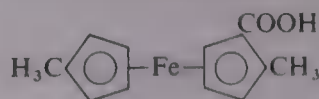
R = COOMe

M 258.099
 Deep-red oil.

McGreer, J.F. *et al*, *J. Organomet. Chem.*, 1976, **110**, 103
 (*synth*, *pmr*)

C₁₃H₁₄FeO₂ Fe-01076

1',2-Dimethylferrocenecarboxylic acid
1-Carboxy-1',2-dimethylferrocene, 9C1
 [12242-25-0]



M 258.099
 Orange cryst. (Et₂O/pentane). Mp 123-6°.
 Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 2749 (*synth*)
 Westman, L. *et al*, *Acta. Chem. Scand.*, 1962, **16**, 1199 (*synth*,
uv)
 Rapić, V. *et al*, *J. Organomet. Chem.*, 1975, **94**, 87 (*synth*)

C₁₃H₁₄FeO₂ Fe-01077

1',3-Dimethylferrocenecarboxylic acid
1-Carboxy-1',3-dimethylferrocene, 9C1
 [12242-26-1]

M 258.099
 Orange cryst. (Et₂O/pentane). Mp 108-109.5°.

(+)-*form*
 Mp 119-21°. [α]_D²² +37.5° (c, 0.8 in CHCl₃).
Cinchonidine salt: Yellow needles (EtOH aq.). Mp 169-71°.

(-)-*form*
 Mp 119-21°. [α]_D²² -36.0° (c, 0.8 in CHCl₃).
Cinchonidine salt: Cryst. (EtOH aq.). Mp 118-22°.
 Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 2749 (*synth*)
 Westman, L. *et al*, *Acta. Chem. Scand.*, 1962, **16**, 1199 (*synth*,
resoln, *uv*)
 Carter, O.L. *et al*, *J. Chem. Soc. (A)*, 1967, 365 (*struct*, *ord*)

C₁₃H₁₄FeO₂ Fe-01078

Ferrocenepropanoic acid
 (2-Carboxyethyl)ferrocene, 9C1. β -Ferrocenylpropionic acid
 [12261-46-0]



M 258.099
 Yellow or fine orange needles (heptane or Et₂O). Mp 119-20°.

Me ester:
 C₁₄H₁₆FeO₂ M 272.126
 Yellow cryst. (hexane). Mp 36-8°.

Hauser, C.R. *et al*, *J. Org. Chem.*, 1957, **22**, 1246 (*synth*)
 Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 3263 (*synth*)
 U.S.P., 3 420 865, (1969); CA, **70**, 96961 (*synth*)
 Din, L.B. *et al*, *Tetrahedron Lett.*, 1979, 4783 (*synth*)
 Senda, Y. *et al*, *Bull. Chem. Soc. Jpn.*, 1980, **53**, 3381 (*cmr*)

C₁₃H₁₄FeO₂S Fe-01079

[(2-Carboxyethyl)thio]ferrocene, 9C1
 (2-Ferrocenylthio)propanoic acid
 [52138-51-9]



M 290.159
 Mp 83°.
 Ratajczak, A. *et al*, *Rocz. Chem.*, 1974, **48**, 175; CA, **80**, 146269
 (*synth*)

C₁₃H₁₄FeO₂S Fe-01080

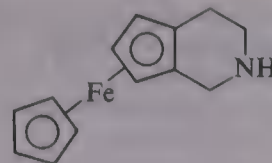
[(Ferrocenylmethyl)thio]acetic acid
 [(Carboxymethyl)thio]methyl]ferrocene. Ferrocenyl-
 methyl carboxymethyl sulfide. S-Ferrocenylmethylthio-
 glycollic acid
 [12154-77-7]



M 290.159
 Orange needles (C₆H₆/pet. ether). Mp 125-6°.
 Combs, C.S. *et al*, *J. Org. Chem.*, 1969, **34**, 1511 (*synth*)
 Morris, D.R. *et al*, *J. Organomet. Chem.*, 1972, **35**, 179 (*synth*,
pmr)
 Ratajczak, A. *et al*, *Bull. Acad. Polon. Sci., Ser. Sci. Chim.*,
 1977, **25**, 541 (*synth*, *ir*)
 Herrman, R. *et al*, *Tetrahedron*, 1981, **37**, 1001 (*synth*)

C₁₃H₁₅FeN Fe-01081

(η^5 -2,4-Cyclopentadien-1-yl)(4a,5,6,7,7a- η)-1,2,3,4-tetrahydro-4aH-2-pyridin-4a-yl]iron, 9C1
 1,2-(5',6'-Tetrahydropyridoferrocene). Tetrahydro-
 1,2,3,4-ferroceno[c]pyridine. Tetrahydro(2-pyrido)ferrocene.
 1',2',5',6'-Tetrahydropyrido[3',4']ferrocene



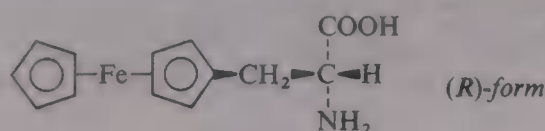
M 241.115
B, HCl: [53382-43-2]. Cryst. (butanol). Mp 204-6°
 (darkens at 160°).
N-Me: [53096-84-7].
 C₁₄H₁₇FeN M 255.142
 Yellow-brown oil.
N-Me; *B, MeI*: Yellow plates (CHCl₃). Mp 234-5° dec.
 Popp, F.D. *et al*, *J. Heterocycl. Chem.*, 1974, **11**, 267 (*synth*)
 Yamakawa, K. *et al*, *Chem. Pharm. Bull.*, 1974, **22**, 576 (*synth*,
pmr, *ir*)
 Ratajczak, A. *et al*, *Bull. Acad. Pol. Sci., Ser. Sci. Chim.*, 1977,
25, 35 (*synth*)

C₁₃H₁₅FeNO₂

Fe-01082

2-Amino-3-ferrocenylpropanoic acid

(2-Amino-2-carboxyethyl)ferrocene, 10Cl. Ferrocenylalanine. β-Ferrocenyl-α-alanine



M 273.114

(R)-form [74164-64-0]

D-form

Yellow cryst. Mp >300° dec. [α]_D –48.3° (c, 0.26 in AcOH).

(S)-form [74164-65-1]

L-form

Yellow cryst. Mp >300° dec. [α]_D +53.2° (c, 0.29 in AcOH).

(±)-form [70116-06-2]

Yellow needles (H₂O). Mp 225° dec., 321-3° dec.

Monohydrate: Mp 290° dec.

N-Benzoyl:

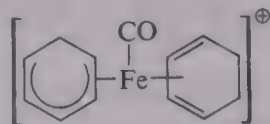
C₂₀H₁₉FeNO₂ M 361.223

Orange plates (EtOH aq.). Mp 185-7° dec.

Hauser, C.R. *et al*, *J. Org. Chem.*, 1957, **22**, 1246 (*synth*)Schlögl, K. *et al*, *Monatsh. Chem.*, 1957, **88**, 601 (*synth*)Osgerby, J.M. *et al*, *J. Chem. Soc.*, 1958, 656 (*synth*)Pospisek, J. *et al*, *Collect. Czech. Chem. Commun.*, 1980, **45**, 435 (*synth, resoln*)Epton, R., *Int. J. Biol. Macromol.*, 1981, **3**, 395 (*use*)C₁₃H₁₅FeO[⊕]

Fe-01083

Carbonyl[(1,2,3,4-η)-1,3-cyclohexadiene][(1,2,3,4,5-η)-2,4-cyclohexadien-1-yl]iron(1+), 9Cl



M 243.108 (ion)

Tetrafluoroborate: [54775-78-9].

C₁₃H₁₅BF₄FeO M 329.912

Characterised spectroscopically.

Ashley-Smith, J. *et al*, *J. Organomet. Chem.*, 1974, **82**, 257 (*synth, ir, pmr, cmr*)C₁₃H₁₅FeOP

Fe-01084

[(1,2,3,4,5-η)-2-Acetyl-3,4-dimethyl-1H-phosphol-1-yl](η⁵-2,4-cyclopentadien-1-yl)iron(η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-3,4-dimethyl-1H-phosphol-2-yl]ethanonato]iron, 10Cl. 2-Acetyl-3,4-dimethylphosphaferrocene

[63312-73-2]

As (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-3,4-dimethyl-1H-phosphole-2-carboxaldehydato]iron, Fe-00931 withR = –COCH₃

M 274.082

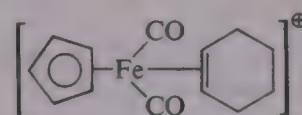
Bright-orange cryst. Mp 58°.

Mathey, F. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 3537 (*synth, pmr*)Mathey, F., *J. Organomet. Chem.*, 1977, **139**, 77 (*synth, ir, pmr, ms*)C₁₃H₁₅FeO₂[⊕]

Fe-01085

Dicarbonyl[(1,2-η)-cyclohexene](η⁵-2,4-cyclopentadien-1-yl)iron(1+), 9Cl

[38817-13-9]



M 259.107 (ion)

Tetrafluoroborate: [35165-73-2].

C₁₃H₁₅BF₄FeO₂ M 345.911Yellow or orange cryst. (CH₂Cl₂/Et₂O). Mp 108-11° dec.

Hexafluorophosphate: [12085-92-6].

C₁₃H₁₅F₆FeO₂P M 404.071Shiny-yellow flakes (Me₂CO/Et₂O). Sol. Me₂CO, insol. H₂O, Et₂O. Mp 129° (darkens).Fischer, E.O. *et al*, *Chem. Ber.*, 1962, **95**, 2063 (*synth*)*Inorg. Synth.*, 1970, **12**, 35 (*synth*)Giering, W.P. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 7170 (*synth*)Cutler, A. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 3495 (*synth, ir, pmr*)Reger, D.L. *et al*, *J. Organomet. Chem.*, 1977, **131**, 153 (*synth, cmr*)C₁₃H₁₅FeO₂S₂[⊕]

Fe-01086

Dicarbonyl(dithiocarboxylato)[(1,2,3,4,5-η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]ferrate(1-), 9Cl

As Dicarbonyl(dithiocarboxylato)[(1,2,3,4,5-η)-1-methyl-2,4-cyclopentadien-1-yl]ferrate(1-), Fe-00374 with

R = CH₃

M 323.227 (ion)

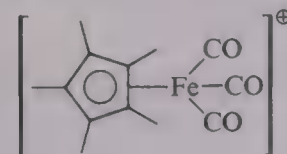
Dark-red.

K salt: [59654-61-4].

C₁₃H₁₅FeKO₂S₂ M 362.326Not isol., generated and used *in situ*.Ellis, J.E. *et al*, *Inorg. Chem.*, 1976, **15**, 2031 (*synth, use, ir*)C₁₃H₁₅FeO₃[⊕]

Fe-01087

Tricarbonyl[(1,2,3,4,5-η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron(1+)



M 275.107 (ion)

Hexafluorophosphate: [82025-16-9].

C₁₃H₁₅F₆FeO₃P M 420.071Light-yellow needles (Me₂CO/EtOH).Catheline, D. *et al*, *J. Organomet. Chem.*, 1982, **226**, C52 (*synth, ir, pmr, cmr, mössbauer*)C₁₃H₁₅FeO₅[⊕]

Fe-01088

(3-Acetyl-2,4-dimethyl-2-penten-4-yl)tetracarbonyliron(1+) (2-Acetyl-1,1,3,3-tetramethyl-π-allyl)tetracarbonyliron(1+)

As Tetracarbonyl[(2,3,4-η)-2,4-dimethyl-2-penten-4-yl]iron(1+), Fe-00771 with

R = H₃CCO–

M 307.106 (ion)

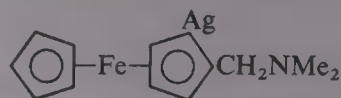
*Tetrachloroaluminate:*C₁₃H₁₅AlCl₄FeO₅ M 475.899Cryst. (CH₂Cl₂/Et₂O).Gibson, D.H. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 720 (synth, ir)C₁₃H₁₆AgFeN

Fe-01089

[2-[(Dimethylamino)methyl]ferrocenyl-*C,N*]silver, ¹⁰Cl

1-[(Dimethylamino)methyl]-2-silverferrocene

[65286-18-2]



M 349.991

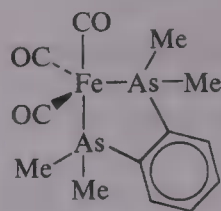
Precursor for biferrocenyl compounds. Isostructural with the Cu analogue.

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1977, 2354 (synth, use)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1978, **153**, 115 (synth, use, struct)C₁₃H₁₆As₂FeO₃

Fe-01090

Tricarbonyl[1,2-phenylenebis(dimethylarsine)-*As,As'*]iron, ⁹Cl

[15308-59-5]



M 425.958

cis-form

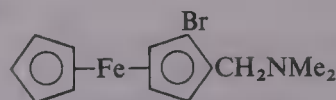
Golden-yellow cryst. Mp 131°. Fluxional.

Lewis, J. *et al*, *Chem. Ind. (London)*, 1963, 1398 (synth)Brown, D.S. *et al*, *Acta Crystallogr.*, 1967, **22**, 296 (cryst struct)Cullen, W.R. *et al*, *Can. J. Chem.*, 1969, **47**, 3371 (synth, pmr, ir)Cullen, W.R. *et al*, *Inorg. Chem.*, 1969, **8**, 1464 (pmr)Langford, C.R. *et al*, *Inorg. Chem.*, 1975, **14**, 2937 (synth, pmr, cmr)Jablonski, C.R., *Inorg. Chem.*, 1981, **20**, 3940 (synth, pmr)C₁₃H₁₆BrFeN

Fe-01091

1-Bromo-2-[(dimethylamino)methyl]ferrocene, ⁹Cl

[12110-60-0]



M 322.027

Mp 46-8°.

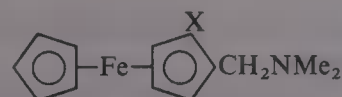
Marr, G. *et al*, *J. Organomet. Chem.*, 1967, **7**, 11 (synth)Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1973, 887 (synth)C₁₃H₁₆ClFeN

Fe-01092

1-Chloro-2-[(dimethylamino)methyl]ferrocene

2-Chloro-N,N-dimethylferrocenemethylamine, ⁸Cl

[12085-94-8]



X = Cl

M 277.576

Orange cryst. (pentane). Mp 42-3°.

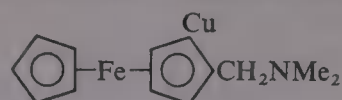
B, MeI: Yellow needles (MeCN). Mp >250°. Darkens from 185°.Marr, G. *et al*, *J. Organomet. Chem.*, 1967, **7**, P11 (synth)Slocum, D.W. *et al*, *J. Org. Chem.*, 1969, **34**, 4101 (synth, pmr)Huffman, J.W. *et al*, *J. Org. Chem.*, 1971, **36**, 4068 (synth)C₁₃H₁₆CuFeN

Fe-01093

[2-[(Dimethylamino)methyl]ferrocenyl-*C,N*]copper, ⁹Cl

1-Copper-2-[(dimethylamino)methyl]ferrocene

[59612-86-1]



M 305.669

Intermed. for 2-arylferrocenes. Air-stable red-orange cryst. Insol. most org. solvs. Tetrameric struct. in solid state.

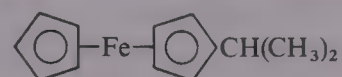
Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1976, **226**, 1092 (synth, use, ir)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1977, **137**, 217 (struct)C₁₃H₁₆Fe

Fe-01094

Isopropylferrocene

(1-Methylethyl)ferrocene, ⁹Cl. 2-Ferrocenylpropane. 2-Propylferrocene

[12126-81-7]



M 228.116

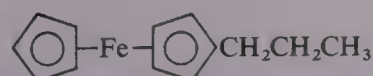
Orange liq. Bp₃ 106-7°.Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1957, **114**, 800 (synth)Koestler, R.C. *et al*, *Chem. Ind. (London)*, 1958, 1589 (synth)Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1958, 242 (synth)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1972, **39**, 173 (pmr)Koridze, A.A. *et al*, *J. Organomet. Chem.*, 1977, **136**, 57 (cmr)Koridze, A.A. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1978, **242**, 117 (nmr)C₁₃H₁₆Fe

Fe-01095

Propylferrocene, ⁹Cl

1-Ferrocenylpropane. (Cyclopentadienyl)-(propylcyclopentadienyl)iron

[1273-92-3]

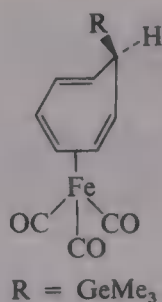


M 228.116

Orange oil. Bp₃ 106-8°.Hoh, G.L.K. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 3949 (synth)

Schlögl, K. *et al*, *Monatsh. Chem.*, 1961, **92**, 921 (*synth*)
 Patin, H. *et al*, *Bull. Soc. Chim. Fr.*, 1973, 2756 (*synth*)

C₁₃H₁₆FeGeO₃ **Fe-01096**
Tricarbonyl[(2,3,4,5- η)-2,4,6-cycloheptatrien-1-yl]trimethylgermane]iron, 10Cl
 [(1,2,3,4- η)-7-Trimethylgermyl-1,3,5-cycloheptatriene-]tricarbonyliron
 [83058-33-7]



M 348.705

Exhibits fluxional behaviour at elevated temp. in soln.

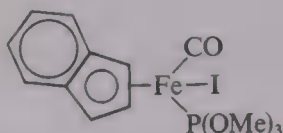
exo-form

Yellow cryst. (pentane). Bp_{0.001} 50° subl.

Li Shing Mau, L.K.K. *et al*, *J. Organomet. Chem.*, 1976, **117**, C104.

Li Shing Mau, L.K.K. *et al*, *Organometallics*, 1983, **2**, 28 (*synth*, *pmr*, *cmr*, *ir*)

C₁₃H₁₆FeI₂O₄P **Fe-01097**
Carbonyliodo[(1,2,3,3a,7a- η)-1H-inden-1-yl](trimethylphosphite-P)iron
 Carbonyl(π -indenyl)iido(phosphorous acid)iron trimethyl ester, 8Cl

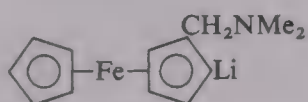


M 449.992

Solid. Mp 51-3°.

Brown, D.A. *et al*, *Inorg. Chim. Acta*, 1970, **4**, 428 (*synth*, *ir*)

C₁₃H₁₆FeLiN **Fe-01098**
1-[(Dimethylamino)methyl]-2-lithioferrocene
 [(Dimethylamino)methyl]ferrocene lithium complex, 9Cl. 2-Lithio-N,N-dimethylferrocenemethylamine
 [54747-09-0]



M 249.064

Intermediate for 2-substituted ferrocenes. Prepd. and used *in situ*; pink or red-orange air-sensitive solid.

Slocum, D.W. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 1241 (*synth*)

Rausch, M.D. *et al*, *J. Organomet. Chem.*, 1973, **51**, 1 (*isol*)

C₁₃H₁₆FeN⁺ **Fe-01099**
(η^5 -2,4-Cyclopentadien-1-yl)(N,N-dimethylaniline)iron(1+)
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-N,N-dimethylbenzeneamine]iron(1+), 10Cl. η^6 -N,N-Dimethylaniline- η^5 -cyclopentadienyliron(1+)

As (η^6 -Bromobenzene)(η^5 -2,4-cyclopentadien-1-yl)-iron(1+), Fe-00702 with

X = NMe₂

M 242.123 (ion)

Hexafluorophosphate: [70124-23-1].

C₁₃H₁₆F₆FeNP M 387.087

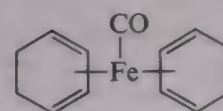
Flocculent orange solid (CH₂Cl₂/pentane). Mp 153-6°.

Helling, J.F. *et al*, *J. Organomet. Chem.*, 1979, **168**, 87 (*synth*, *pmr*, *ir*)

Lee, C.C. *et al*, *J. Organomet. Chem.*, 1981, **206**, 89 (*synth*)

Steele, B.R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 529 (*cmr*)

C₁₃H₁₆FeO **Fe-01100**
Carbonylbis[(1,2,3,4- η)-1,3-cyclohexadiene]iron, 9Cl
 [34978-83-1]



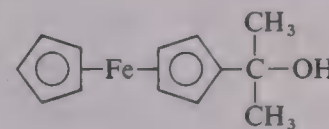
M 244.116

Orange-red needles (pentane). Mp 134-6° dec.

Koerner von Gustorf, E.A. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1971, **10**, 260 (*synth*, *pmr*, *ir*)

Krüger, C. *et al*, *J. Organomet. Chem.*, 1971, **33**, 59 (*struct*)

C₁₃H₁₆FeO **Fe-01101**
(1-Hydroxy-1-methylethyl)ferrocene, 9Cl
 2-Ferrocenyl-2-propanol. α,α -Dimethylferrocenemethanol. Ferrocenyldimethylcarbinol
 [12093-87-7]



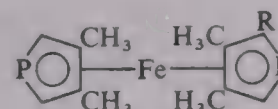
M 244.116

Orange cryst. (pet. ether). Mp 64-5°.

Schlögl, K. *et al*, *Monatsh. Chem.*, 1964, **95**, 558 (*synth*)

Braun, S. *et al*, *J. Organomet. Chem.*, 1975, **97**, 429 (*cmr*)

C₁₃H₁₆FeOP₂ **Fe-01102**
[(1,2,3,4,5- η)-3,4-Dimethyl-1H-phosphole-2-carboxaldehydato][(1,2,3,4,5- η)-3,4-dimethyl-1H-phosphol-1-yl]iron, 10Cl
 2-Formyl-3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene
 [73153-33-0]



R = CHO

M 306.063

Cryst. Mp 162°.

Oxime: [78220-35-6].

C₁₃H₁₇FeNOP₂ M 321.078

Cryst. (CHCl₃). Mixt. of 2 isomers.

De Lauzon, G. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 994 (*synth*, *pmr*, *nmr*, *ir*)

De Lauzon, G. *et al*, *Nouv. J. Chim.*, 1980, **4**, 683 (*derivs*, *nmr*, *ms*)

C₁₃H₁₆FeO₂P₂**Fe-01103****[(1,2,3,4,5-η)-3,4-Dimethyl-1H-phosphol-1-yl][(1,2,3,4,5-η)-3,4-dimethyl-1H-phosphole-2-carboxylato]iron, 10Cl**

As [(1,2,3,4,5-η)-3,4-Dimethyl-1H-phosphole-2-carboxaldehydato][(1,2,3,4,5-η)-3,4-dimethyl-1H-phosphol-1-yl]iron, Fe-01102 with



M 322.063

Et ester: [78207-65-5].

C₁₅H₂₀FeO₂P₂ M 350.116

Mp 55°.

Nitrile: [78207-64-4]. [(1,2,3,4,5-η)-3,4-Dimethyl-1H-phosphole-2-carbonitrilato][(1,2,3,4,5-η)-3,4-dimethyl-1H-phosphol-1-yl]iron, 10Cl. 2-Cyano-3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene.

C₁₃H₁₅FeNP₂ M 303.063

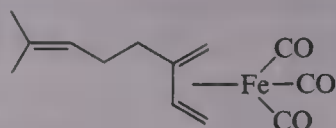
Orange solid. Mp 136°.

De Lauzon, G. *et al*, *Nouv. J. Chim.*, 1980, **4**, 683 (*synth*, *ir*, *ms*, *pmr*, *cmr*, *nmr*)**C₁₃H₁₆FeO₃****Fe-01104****Tricarbonyl(η⁴-7-methyl-3-methylene-1,6-octadiene)iron,**

10Cl

(Myrcene)iron tricarbonyl

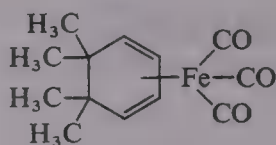
[33434-20-7]



M 276.115

Yellow oil. Bp_{0.05} 60°; Bp₁ 80-4°.Dell, D. *et al*, *Isr. J. Chem.*, 1969, **7**, 783 (*synth*, *ir*)Dauben, W.G. *et al*, *Org. Mass Spectrom.*, 1970, **3**, 211 (*ms*)Banthorpe, D.V. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1973, 2051 (*synth*, *pmr*)**C₁₃H₁₆FeO₃****Fe-01105****Tricarbonyl[(1,2,3,4-η)-5,5,6,6-tetramethyl-1,3-cyclohexadiene]iron, 10Cl**

[78393-28-9]

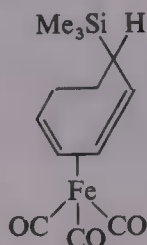


M 276.115

Wormsbaeher, D. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1981, **20**, 696 (*synth*, *pmr*)**C₁₃H₁₆FeO₃Si****Fe-01106****Tricarbonyl[(2,3,4,5-η)-2,4,6-cycloheptatrien-1-yl]trimethylsilane]iron**

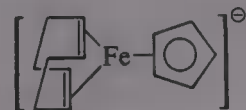
[(1,2,3,4-η)-7-Trimethylsilyl-1,3,5-cycloheptatriene]tricarbonyliron

[83006-17-1]



M 304.200

A fluxional molecule in solns. at elevated temp.

exo-formYellow cryst. (pentane). Bp_{0.001} 50° subl.Li Shing Mau, L.K.K. *et al*, *Organometallics*, 1983, **2**, 28 (*synth*, *ir*, *pmr*, *cmr*)**C₁₃H₁₇Fe[⊖]****Fe-01107****[(1,2,5,6-η)-1,5-Cyclooctadiene](η⁵-2,4-cyclopentadien-1-yl)ferrate(1-), 10Cl**

M 229.124 (ion)

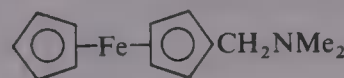
Intermed. for C₅H₅Fe complexes.

Li salt, tetramethylethylenediamine complex: [69393-63-1].

C₁₉H₃₃FeLiN₂ M 352.271Cryst. (THF/Et₂O).Jonas, K. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1979, **18**, 549 (*synth*, *use*, *cmr*)**C₁₃H₁₇FeN****Fe-01108****(Ferrocenylmethyl)dimethylamine**

(Dimethylaminomethyl)ferrocene, 10Cl, 9Cl. N,N-Dimethylferrocenylmethylamine

[1271-86-9]

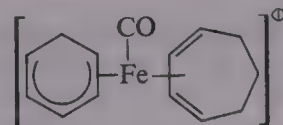


M 243.131

Dark-red liq. Bp_{0.45} 91-2°.

B, MeI: [12086-40-7]. Yellow powder. Mp 200° dec.

▷BQ6055000.

Osgerby, J.M. *et al*, *J. Chem. Soc.*, 1958, 656 (*synth*)Kalennikov, E.A. *et al*, *Zh. Org. Khim.*, 1969, **5**, 1517; *CA*, **71**, 113075 (*synth*)*Org. Synth., Coll. Vol.*, **5**, 434 (*synth*)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci.**Khim.*, 1976, **228**, 1347 (*pmr*)Koridze, A.A. *et al*, *J. Organomet. Chem.*, 1977, **136**, 57 (*cmr*)**C₁₃H₁₇FeO[⊕]****Fe-01109****Carbonyl[(1,2,3,4-η)-1,3-cycloheptadiene][(1,2,3,4,5-η)-2,4-cyclohexadien-1-yl]iron(1+), 9Cl**

M 245.124 (ion)

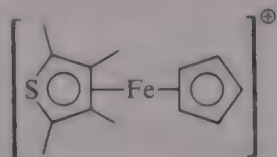
Tetrafluoroborate: [54775-80-3].

C₁₃H₁₇BF₄FeO M 331.927

Characterised spectroscopically.

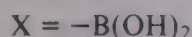
Ashley-Smith, J. *et al*, *J. Organomet. Chem.*, 1974, **82**, 257 (*synth*, *ir*)

C₁₃H₁₇FeS⁺ **Fe-01110**
 (η⁵-2,4-Cyclopentadien-1-yl)((1,2,3,4,5-η)-tetramethylthio-phenyl)iron(1+), 9Cl



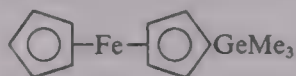
M 261.184 (ion)
 Hexafluorophosphate: [60635-72-5].
 C₁₃H₁₇F₆FePS M 406.148
 Orange solid (CH₂Cl₂/Et₂O). Dec. >300°. *synth*, *pmr*, *ir*)
 Michaud, P. *et al.*, *J. Am. Chem. Soc.*, 1982, **104**, 3755.

C₁₃H₁₈BFeNO₂ **Fe-01111**
 2-[(Dimethylamino)methyl]ferroceneboronic acid, 8Cl
 2-Borono[(dimethylamino)methyl]ferrocene
 [12110-62-2]
 As 1-Chloro-2-[(dimethylamino)methyl]ferrocene, Fe-01092 with



M 286.948
 Intermed. for 1,2-disubstituted ferrocenes. Light-orange cryst. (C₆H₆/pet. ether). Sol. aq. acids and bases. Mp 177-8°. Exhibits isoelectric point.
 Marr, G. *et al.*, *J. Chem. Soc. (C)*, 1968, 24 (*synth*, *use*)
 Marr, G. *et al.*, *Tetrahedron Lett.*, 1968, 2521 (*pmr*)

C₁₃H₁₈FeGe **Fe-01112**
 (Trimethylgermyl)ferrocene, 9Cl
 Ferrocenyltrimethylgermane
 [38670-71-2]



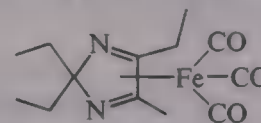
M 302.722
 Dark liq. Bp_{3.0} 115-6°. *n*_D²⁰ 1.5862.
 Kumada, M. *et al.*, *J. Organomet. Chem.*, 1972, **43**, 293 (*synth*, *ir*, *pmr*)

C₁₃H₁₈FeN₂O₃ **Fe-01113**
 Tricarbonylbis(2-isocyano-2-methylpropane)iron
 Di-tert-butyl isocyanide iron tricarbonyl. Bis(tert-butyl isonitrile)tricarbonyliron



M 306.144
 Air-, heat- and light-sensitive yellow needles (pet. ether). Mp 98-98.5° (92-3°).
 Cotton, F.A. *et al.*, *J. Chem. Soc.*, 1960, 1440 (*synth*, *ir*)
 Cotton, F.A. *et al.*, *J. Am. Chem. Soc.*, 1961, **83**, 351 (*synth*, *ir*)
 Taylor, R.C. *et al.*, *Inorg. Chem.*, 1964, **3**, 584 (*synth*, *ir*)
 Cronin, D.L. *et al.*, *J. Magn. Reson.*, 1975, **17**, 353 (*cmr*)

C₁₃H₁₈FeN₂O₃ **Fe-01114**
 Tricarbonyl(2,2,4-triethyl-5-methyl-2H-imidazole)iron, 8Cl



M 306.144
 Orange-red air-sensitive cryst. Mp 66°. Bp_{0.1} 55-60° subl.
 Tom Dieck, H. *et al.*, *J. Chem. Soc., Chem. Commun.*, 1968, 678 (*synth*, *ir*, *ms*)

C₁₃H₁₈FeOP₂ **Fe-01115**
 [(1,2,3,4,5-η)-3,4-Dimethyl-1H-phosphole-2-methanolato][(1,2,3,4,5-η)-3,4-dimethyl-1H-phosphol-1-yl]iron, 10Cl
 2-Hydroxymethyl-3,3',4,4'-tetramethyl-1,1'-diphosph-aferrocene
 [73153-34-1]
 As [(1,2,3,4,5-η)-3,4-Dimethyl-1H-phosphole-2-carboxaldehydato][(1,2,3,4,5-η)-3,4-dimethyl-1H-phosphol-1-yl]iron, Fe-01102 with



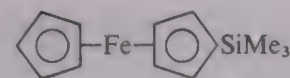
M 308.079
 Cryst. (C₆H₆/EtOAc). Mp 127°. *De Lauzon, G. et al., J. Am. Chem. Soc.*, 1980, **102**, 994 (*synth*, *ir*, *pmr*, *nmr*, *ms*)

C₁₃H₁₈FeO₂ **Fe-01116**
 Dicarboxylmethyl[(1,2,3,4,5-η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, 9Cl
 (η¹-Methyl)(η⁵-pentamethylcyclopentadienyl)dicarbonyliron
 [52409-66-2]
 As Bromodicarbonyl[(1,2,3,4,5-η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, Fe-00953 with



M 262.131
 Yellow cryst. by subl. Mp 72-4°. *King, R.B. et al., J. Organomet. Chem.*, 1974, **69**, 131 (*synth*, *ir*, *pmr*, *ms*)

C₁₃H₁₈FeSi **Fe-01117**
 (Trimethylsilyl)ferrocene, 9Cl
 Ferrocenyltrimethylsilane
 [12215-68-8]



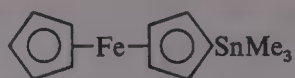
M 258.218
 Dark orange-red mobile liq. with mild cedar-like odour. Mp 23°. Bp_{0.045} 64-5°. *n*_D²⁵ 1.5696. Light- and air-stable.
 Rausch, M. *et al.*, *J. Org. Chem.*, 1957, **22**, 900 (*synth*)
 Clancy, D.J. *et al.*, *Anal. Chem.*, 1962, **34**, 1839 (*ms*)
 Nesmeyanov, A.N. *et al.*, *Zh. Struct. Khim.*, 1973, **14**, 49 (*cmr*)
 Slocum, D.W. *et al.*, *J. Org. Chem.*, 1973, **38**, 1620 (*pmr*)

C₁₃H₁₈FeSn

(Trimethylstannyl)ferrocene, 10Cl

Ferrocenyltrimethylstannane

[64115-36-2]



M 348.822

Orange liq. Bp_{0.1} 90°.Bitterwolf, T.E. *et al*, *Synth. React. Inorg. Metal-Org. Chem.*, 1977, **7**, 367 (*synth*)Dawoodi, Z. *et al*, *J. Organomet. Chem.*, 1979, **170**, 95 (*synth*, *pmr*)

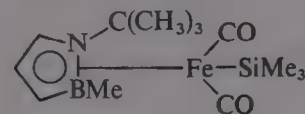
Fe-01118

Struct. by analogy with Carbonyl(1,2,3,4- η)-2,3-dimethyl-1,3-butadiene[*N,N'*-1,2-ethanediylidenebis[2-propanamine]-*N,N'*]iron, Fe-01360. Red-brown needles (hexane). Mp 70-1° dec.Fruehauf, H.-W. *et al*, *J. Organomet. Chem.*, 1979, **178**, 349 (*synth*, *pmr*, *ir*, *uv*, *ms*)C₁₃H₂₄BFeNO₂Si

Fe-01122

Dicarbonyl[(3,4,5- η)-1-(1,1-dimethylethyl)-2,3-dihydro-2-methyl-1*H*-1,2-azaborol-3-yl-*B*²,*N*¹](trimethylsilyl)iron, 10Cl(1-tert-Butyl-2,3-dihydro-2-methyl-1*H*-azaborol-3-yl)dicarbonyl(trimethylsilyl)iron

[75325-35-8]



M 321.081

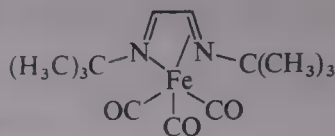
Waxy yellow solid.

Schulze, J. *et al*, *J. Organomet. Chem.*, 1980, **193**, 83 (*synth*, *ms*, *ir*, *pmr*, *nmr*)C₁₃H₂₀FeN₂O₃

Fe-01119

Tricarbonyl[*N,N'*-1,2-ethanediylidenebis[2-methyl-2-propanamine]]iron, 9Cl

Glyoxalbis(tert-butylimine)tricarbonyliron. Tricarbonyl(2,2,6,6-tetramethyl-3,6-diaza-3,5-octadiene)iron [54446-60-5]



M 308.160

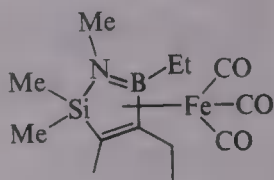
Air-sensitive violet oil or red cryst.

tom Dieck, H. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1975, **14**, 251 (*synth*, *ir*)Liebfritz, D. *et al*, *J. Organomet. Chem.*, 1976, **105**, 255 (*cmr*)Staal, L.H. *et al*, *Inorg. Chim. Acta*, 1980, **40**, 165 (*pmr*)Shi, Q. *et al*, *Organometallics*, 1982, **1**, 1033 (*synth*, *ir*, *uv*)C₁₃H₂₂BFeNO₃Si

Fe-01120

Tricarbonyl[(3,4- η)-4,5-diethyl-1,2,2,3-tetramethyl-1-aza-2-sila-5-boracyclopent-3-ene-*B*⁵,*N*¹]ironTricarbonyl[(2,3,4,5- η)-4,5-diethyl-1,2,2,3-tetramethyl- Δ^3 -1,2,5-azasilaboroline]iron

[81952-05-8]



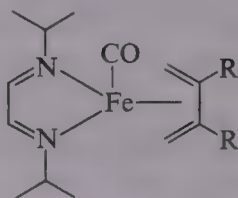
M 335.064

Orange-red cryst. (pentane). Mp 189-90° dec. Bp_{0.001} 60° subl.Köster, R. *et al*, *Chem. Ber.*, 1982, **115**, 738 (*synth*, *struct*, *ir*, *ms*, *pmr*, *cmr*, *nmr*)C₁₃H₂₂FeN₂O

Fe-01121

(η⁴-1,3-Butadiene)carbonyl[*N,N'*-1,2-ethanediylidenebis[2-propanamine]-*N,N'*]iron, 10Cl

Butadiene(carbonyl)[glyoxalbis(isopropylimine)]iron [72142-40-6]



R = H

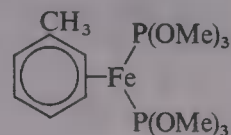
M 278.177

C₁₃H₂₆FeO₆P₂

Fe-01123

[(1,2,3,4,5,6- η)-Methylbenzene]bis(trimethyl phosphite-*P*)-iron, 10Cl(η⁶-Toluene)bis(trimethyl phosphite-*P*)iron

[71465-08-2]



M 396.139

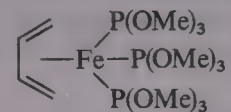
Dark-red air-sensitive liq.

Ittel, S.D. *et al*, *J. Organomet. Chem.*, 1972, **172**, C47 (*synth*, *pmr*, *nmr*)C₁₃H₃₃FeO₉P₃

Fe-01124

(η⁴-1,3-Butadiene)tris(trimethyl phosphite-*P*)iron, 10Cl

[59687-94-4]



M 482.167

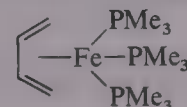
Fluxional molecule. Yellow cryst. Mp 218°.

Ittel, S.D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 3874 (*synth*, *pmr*, *cmr*, *nmr*, *ir*, *ms*)C₁₃H₃₃FeP₃

Fe-01125

(η⁴-1,3-Butadiene)tris(trimethylphosphine)iron, 10Cl

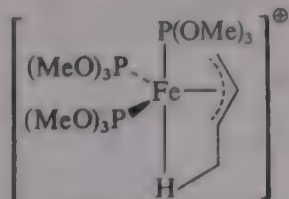
[56315-41-4]



M 338.172

Yellow-orange cryst. (pentane). Stereochemically non-rigid.

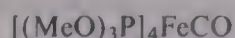
Harris, T.V. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 6966 (*synth*, *pmr*, *nmr*, *ms*)

Wreford, S.S. *et al*, *Inorg. Chem.*, 1981, **20**, 3918 (*synth*, *ms*)**C₁₃H₃₄FeO₉P₃[⊕]** **Fe-01126**
[(1,2,3- η)-2-Butenyl]tris(trimethyl phosphite-*P*)iron(1+), 10Cl

M 483.174 (ion)

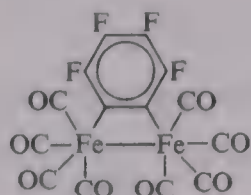
Pmr shows Fe-H bonding with an Me-H atom occupying an octahedral coordination site.

Tetraphenylborate: [72316-74-6].

C₃₇H₅₄BFeO₉P₃ M 802.406Yellow plates (CH₂Cl₂).Ittel, S.D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 6904 (*synth*, *nmr*)**C₁₃H₃₆FeO₁₃P₄** **Fe-01127**
Carbonyltetrakis(trimethyl phosphite-*P*)iron, 9Cl
[55046-75-8]

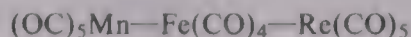
M 580.162

Colourless, characterised spectroscopically.

Harris, T.V. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 6966 (*synth*, *ir*)**C₁₄F₄Fe₂O₈** **Fe-01128**
Octacarbonyl[μ -(3,4,5,6-tetrafluoro-1,2-phenylene)]diiron, 9Cl
 μ -(*o*-Tetrafluorophenylene)diiron octacarbonyl
[29160-38-1]

M 483.837

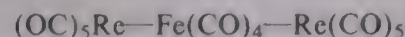
Orange cryst. (pentane).

Roe, D.M. *et al*, *J. Organomet. Chem.*, 1970, **23**, 547 (*synth*, *ms*, *ir*)Bennett, M.J. *et al*, *Inorg. Chem.*, 1973, **12**, 2944 (*synth*, *cryst struct*)**C₁₄FeMnO₁₄Re** **Fe-01129**
Pentacarbonyl(pentacarbonylmanganese)(tetracarbonyliron)-rhenium, 9Cl
Tetradecacarbonylmanganeserheniumiron, 8Cl
[33958-72-4]

M 689.138

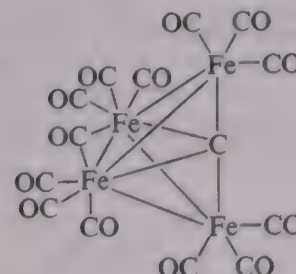
Orange needles (Me₂CO).Evans, G.O. *et al*, *J. Inorg. Nucl. Chem.*, 1968, **30**, 2862 (*synth*, *ir*, *ms*)Evans, G.O. *et al*, *Inorg. Chem.*, 1970, **9**, 979 (*ir*)Tyler, D.R. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 7888 (*struct*)**C₁₄FeMn₂O₁₄** **Fe-01130**
Tetracarbonylbis(pentacarbonylmanganio)iron, 8Cl
Decacarbonyl(tetracarbonyliron)dimanganese, 10Cl
[15668-57-2]

M 557.869

Air-stable red needles (Me₂CO). Sol. org. solvs. Mp 112°. Bp 75° subl. *in vacuo*.Schubert, E.H. *et al*, *Z. Naturforsch., B*, 1965, **20**, 1306 (*synth*, *ir*)Agron, P.A. *et al*, *Acta Crystallogr.*, 1967, **23**, 1079 (*cryst struct*)Evans, G.O. *et al*, *Inorg. Chem.*, 1970, **9**, 979 (*ir*)Tyler, D.R. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 7888 (*uv*)**C₁₄FeO₁₄Re₂** **Fe-01131**
Tetracarbonylbis(pentacarbonylrhenio)iron, 8Cl
Decacarbonyl(tetracarbonyliron)dirhenium, 10Cl
[16040-31-6]

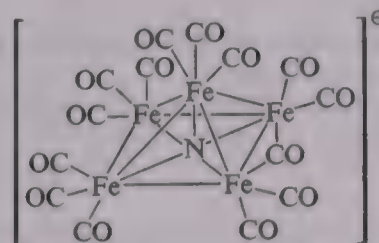
M 820.407

Stable yellow solid. Mp 163° dec.

Evans, G.O. *et al*, *J. Chem. Soc., Chem. Commun.*, 1967, 186 (*synth*, *ir*)Evans, G.O. *et al*, *Inorg. Chem.*, 1971, **10**, 1598 (*ir*, *raman*)Tyler, D.R. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 7888 (*uv*)**C₁₄Fe₄O₁₃** **Fe-01132**
 μ -Carbonyldodecacarbonyl- μ_4 -methanetetrayltetrairon, 10Cl
(Carbon)tridecacarbonyltetrairon
[79061-73-7]

M 599.534

Black air-sensitive cryst. (hexane).

Bradley, J.S. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 7417; 1981, **103**, 4968 (*synth*, *struct*, *ir*, *pmr*, *cmr*, *ms*)**C₁₄Fe₅NO₁₄[⊖]** **Fe-01133**
 μ -Carbonyltridecacarbonyl- μ_5 -nitridopentaferrate(1-)
Tetradecacarbonylnitridopentaferrate(1-)

M 685.387 (ion)

Tetraethylammonium salt: [76119-23-8].

C₂₂H₂₀Fe₅N₂O₁₄ M 815.640

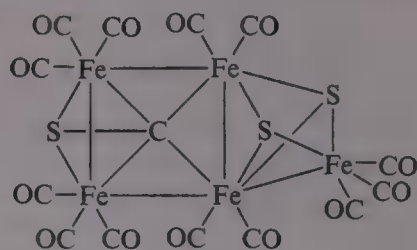
Characterized spectroscopically.

Tachikawa, M. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 6648 (*synth*, *ir*, *cmr*)

C₁₄Fe₅O₁₃S₃

Fe-01134

[μ_4 -(Carbonothioyl-C:C:S:S)]tridecacarbonyldi- μ_3 -thioxopentairon
[78023-46-8]

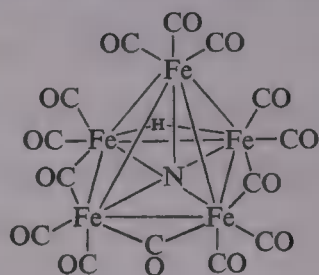


M 751.561

Grey-brown or black platelets (C₆H₆/hexane).Broadhurst, P.V. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 3198 (synth, ir)Broadhurst, P.V. *et al*, *J. Chem. Soc., Chem. Commun.*, 1982, 140 (synth)C₁₄HFe₅NO₁₄

Fe-01135

Tri- μ -carbonylundecacarbonyl- μ -hydro- μ_5 -nitridopentairon, 10Cl
Dodecacarbonylhydridonitridopentairon
[75038-47-0]

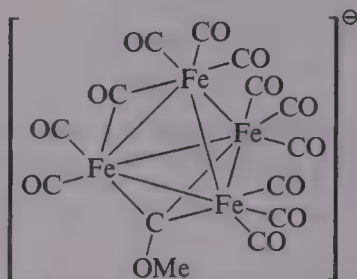


M 686.395

Tachikawa, M. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 6648 (synth, ir, ms, struct)C₁₄H₃Fe₄O₁₃[⊖]

Fe-01136

μ -Carbonylundecacarbonyl[μ_3 -(methoxymethylidyne)]tetraferate(1-)
Dodecacarbonyl[μ_3 -(methoxymethylidyne)]tetraferate(1-)



M 602.558 (ion)

Reacts with excess H⁺ to produce CH₄.

Bis(triphenylphosphine)iminium salt: [75995-44-7].

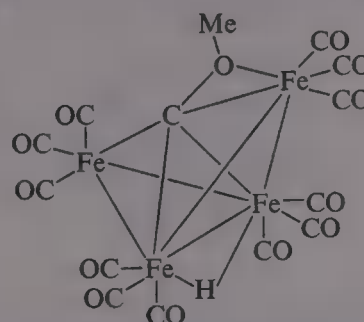
C₅₀H₃₃Fe₄NO₁₃P₂ M 1141.145

Rectangular purple-black cryst. (MeOH).

Holt, E.M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1980, 778, 780 (synth, struct, ir, pmr, cmr)Dawson, P.A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1980, 781 (synth, pmr, ir, struct)C₁₄H₄Fe₄O₁₃

Fe-01137

Dodecacarbonyl- μ -hydro[μ_4 -(methoxymethylidyne-C:C:C,O)]tetrairon, 10Cl
[79061-16-8]



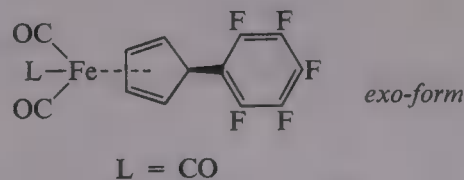
M 603.566

Small green-black rectangular cryst. (hexane).

Dawson, P.A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1980, 781 (synth, struct, ir, pmr)Whitmire, K. *et al*, *J. Chem. Soc., Chem. Commun.*, 1980, 780 (synth, struct, ir, pmr)Holt, E.M. *et al*, *J. Organomet. Chem.*, 1981, **213**, 125 (synth, ir, pmr, ms, struct)C₁₄H₅F₅FeO₃

Fe-01138

Tricarbonyl[(5-pentafluorophenyl)-1,3-cyclopentadiene]iron
Tricarbonyl[1-[(η^4 -2,4-cyclopentadien-1-yl)]-(2,3,4,5,6-pentafluoro)benzene]iron



M 372.031

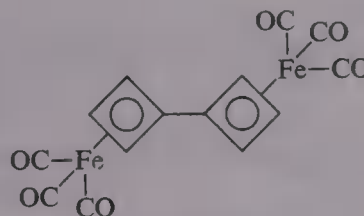
exo-form [12176-61-3]

Yellow cryst.

Treichel, P.M. *et al*, *Inorg. Chem.*, 1967, **6**, 1328 (synth, pmr, ir)C₁₄H₆Fe₂O₆

Fe-01139

[μ -(Bi-1,3-cyclobutadien-1-yl)]hexacarbonyldiiron, 8Cl
Bis[tricarbonyl(cyclobutadien-1-yl)iron]. [μ -[Bis(η^4 -1,3-cyclobutadien-1-yl)]hexacarbonyldiiron]



M 381.892

Pale-yellow cryst. Mp 127°.

Brune, H.A. *et al*, *Z. Naturforsch., B*, 1971, **26**, 222 (synth, ir, pmr, ms)

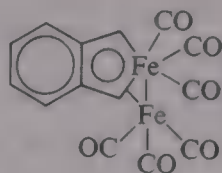
C₁₄H₆Fe₂O₆

Fe-01140

Hexacarbonyl[μ-(η²:η⁴-(3,5-cyclohexadiene-1,2-diylidenedimethylidene)]diiron, 9Cl

Hexacarbonyl(isoferraindene)iron. Tricarbonyl(2,2,2-tricarbonylferraindene)iron

[54244-94-9]



M 381.892

Orange cryst. (pentane). Mp 86-7°.

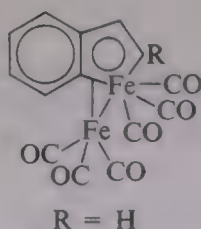
Davis, R.E. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 7108 (*synth*, *ir*, *struct*, *pmr*)C₁₄H₆Fe₂O₆

Fe-01141

Hexacarbonyl[μ-(η²:η⁴-1,2-ethenediyl-1,2-phenylene)]diiron, 9Cl

Hexacarbonyl(1-ferraindene)iron. unsym-Benzoferrole

[50277-90-2]



M 381.892

Red cryst. Mp 120°.

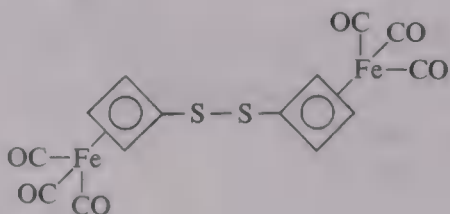
Victor, R. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 1241 (*synth*, *ir*, *pmr*)Ehnholt, D. *et al*, *J. Organomet. Chem.*, 1973, **56**, 315 (*synth*, *ir*, *pmr*)Davis, R.E. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 7108 (*synth*, *struct*)C₁₄H₆Fe₂O₆S₂

Fe-01142

[μ-[Bis(η⁴-1,3-cyclobutadien-1-yl)disulfide]]hexacarbonyldiiron, 10Cl

Dithiobis[cyclobutadienetricarbonyliron]. Bis(cyclobutadienetricarbonyliron)disulfide

[66214-98-0]



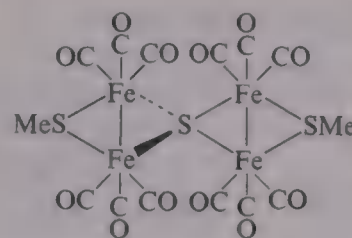
M 446.012

Brown cryst. (hexane). Mp 109-10°. Bp_{0.1} 95-100° subl.Marcincal, P. *et al*, *Bull. Soc. Chim. Fr.*, 1977, 489 (*synth*, *pmr*)C₁₄H₆Fe₄O₁₂S₃

Fe-01143

Dodecacarbonylbis(μ-methanethiolato)-μ₃-thioxotetrairon, 8Cl

[18223-39-7]



M 685.762

Deep-red cryst. (hexane). Mp 162-5°.

Coleman, J.D. *et al*, *Inorg. Chem.*, 1967, **6**, 1236 (*synth*, *pmr*, *ir*, *struct*)C₁₄H₈FeO₄

Fe-01144

Tricarbonyl(1-benzoyl-1,3-cyclobutadiene)iron

Tricarbonyl[(η⁴-1,3-cyclobutadien-1-yl)phenylmethanone]iron, 10Cl. Tricarbonyl(1,3-cyclobutadien-1-yl phenyl ketone)iron

[67612-84-4]

As (η⁴-1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with

R = CPh

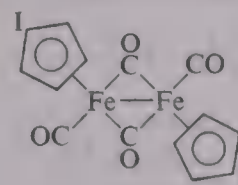
M 296.062

Fitzpatrick, J.D. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 3254 (*synth*)Pruitt, P.L. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1977, 907 (*pmr*)Gmelins Handbuch der Anorg. Chem., 1981, **B7**, 48.C₁₄H₈Fe₂I₂O₄

Fe-01145

Di-μ-carbonyldicarbonylbis(η⁵-1-iodo-2,4-cyclopentadien-1-yl)diiron, 10ClBis[dicarbonyl(η⁵-iodocyclopentadienyl)iron]. Tetracarbonylbis(iodocyclopentadienyl)diiron

[68220-61-1]



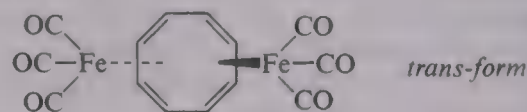
M 605.718

Copper-coloured flakes (Et₂O/CH₂Cl₂). Mp 122°.Herrmann, W.A. *et al*, *Chem. Ber.*, 1978, **111**, 3024 (*synth*, *ir*, *pmr*, *cmr*, *ms*)C₁₄H₈Fe₂O₆

Fe-01146

Hexacarbonyl[μ-[(1,2,3,4-η:5,6,7,8-η)-1,3,5,7-cyclooctatetraene]]diiron, 9Cl

[36561-99-6]



M 383.908

Yellow solid. Mp 190° dec.

Manuel, T.A. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 366 (*synth*, *ir*, *pmr*)Dickens, B. *et al*, *J. Chem. Phys.*, 1962, **37**, 2084 (*struct*)

C₁₄H₉FeNO₃ Fe-01147**Tricarbonyl[(2,3,4,5- η)-5-phenyl-2,4-pentadienenitrile]iron, 10Cl**As Tricarbonyl[(2,3,4,5- η)-2,4-hexadienedial]iron, Fe-00358 with

M 295.077

syn, syn-form [32698-84-3]Orange-brown cryst. (pentane/CH₂Cl₂).**syn-Ph-anti-CN-form** [32699-36-8]

Tacky brown solid.

Whitlock, H.W. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 6665.Frederiksen, J.S. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 3863
(*synth*, *ir*, *pmr*)**C₁₄H₁₀FeN₄O₂ Fe-01148****Bis(isocyanobenzene)dinitrosyliron, 9Cl***Dinitrosylbis(phenyl isocyanide)iron, 8Cl*

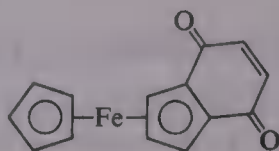
[31392-55-9]



M 322.106

Small, dark red-brown needles (CH₂Cl₂/EtOH). Sol.Et₂O, Me₂CO, EtOH, C₆H₆, mod. sol. pet. ether. Dec. at 141-3°. Stable to air and water.Malatesta, L. *et al*, *Z. Anorg. Allg. Chem.*, 1953, **274**, 341
(*synth*)Hieber, W. *et al*, *Chem. Ber.*, 1956, **89**, 610 (*synth*)Becker, W.D. *et al*, *Z. Naturforsch., B*, 1970, **25**, 1332 (*nmr*)Mosbaek, H. *et al*, *Acta Chem. Scand., Ser. A*, 1974, **28**, 157
(*mössbauer*)**C₁₄H₁₀FeO₂ Fe-01149****(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3a,7a- η)-4,7-dihydro-4,7-dioxo-1H-inden-1-yl]iron, 9Cl***Ferroçobenzoquinone*

[12131-05-4]



M 266.079

Violet cryst. (Et₂O/hexane). Mp 152°. Bp 135-45° subl.Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 4112 (*synth*, *ir*, *uv*)Egger, H. *et al*, *Monatsh. Chem.*, 1966, **97**, 1590 (*synth*)Johnson, R.A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 989
(*synth*)McDonnell, J.J. *et al*, *J. Org. Chem.*, 1972, **37**, 4064 (*synth*, *nmr*)**C₁₄H₁₀FeO₂S₃ Fe-01150****Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(phenyltrithiocarbonato-S)iron***(Hydrogen trithiocarbonato)dicarbonylcyclopentadienyliron phenyl ester*As Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)
(difluorophosphinothioyl-P)iron, Fe-00189 with

M 362.259

Orange-red cryst. (Et₂O/pet. ether). Mp 106.5°.Bruce, R. *et al*, *J. Organomet. Chem.*, 1966, **6**, 67 (*synth*, *ir*, *pmr*)**C₁₄H₁₀FeO₃ Fe-01151****Benzoyldicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, 9Cl**

[12154-94-8]

As Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(difluorophosphinothioyl-P)iron, Fe-00189 with

M 282.078

Orange cryst. (pentane). Mp 59-62°.

King, R.B. *et al*, *J. Organomet. Chem.*, 1964, **2**, 15 (*synth*, *ir*, *pmr*)**C₁₄H₁₀FeO₄ Fe-01152****Tricarbonyl[α -(1,2,3,4- η)-1,3-cyclobutadien-1-yl]benzenemethanol]iron, 10Cl***(α -Hydroxybenzyl)cyclobutadieneiron tricarbonyl*

[58396-65-9]

As (η^4 -1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 with

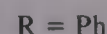
M 298.078

($\pm$)-form

Pale-yellow solid. Mp 62-3°.

Eschbach, C.S. *et al*, *J. Organomet. Chem.*, 1976, **104**, 363
(*synth*, *pmr*, *cmr*)**C₁₄H₁₀FeO₄ Fe-01153****Tricarbonyl(η^4 -2-methylene-1-phenyl-3-buten-1-one)iron, 10Cl***Tricarbonyl[η^4 -(2-benzoyl-1,3-butadiene)]iron*

[12087-05-7]

As Tricarbonyl(η^4 -3-methylene-4-penten-2-one)iron, Fe-00404 with

M 298.078

No phys. props. reported.

Gibson, D.H. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 720
(*synth*, *pmr*)Franck-Neumann, M. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1981, **20**, 864 (*synth*)**C₁₄H₁₀FeO₄ Fe-01154****Tricarbonyl[η^4 -2-(2-oxo-2-phenylethylidene)-1,3-propanediyl]iron, 9Cl**

[36619-66-6]

As Tricarbonyl[η^4 -2-(oxoethylidene)-1,3-propanediyl]-iron, Fe-00273 with

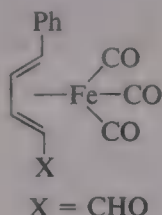
M 298.078

Yellow cryst. (Et₂O/pentane). Mp 54-6°.Ehrlich, K. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 2464 (*synth*, *ir*, *pmr*)

C₁₄H₁₀FeO₄

Fe-01155

Tricarbonyl[(2,3,4,5- η)-5-phenyl-2,4-pentadienal]iron, 9Cl
[12087-07-9]



M 298.078

syn,syn-formYellow flakes (C₆H₆/hexane). Mp 166° (154-5°).Whitlock, H.W. *et al*, *Inorg. Chem.*, 1965, **4**, 424 (*synth*, *pmr*, *ir*)Brodie, A.M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1997 (*synth*, *pmr*, *ir*, *uv*)C₁₄H₁₀FeO₄

Fe-01156

Tricarbonyl[(2,3,4,5- η)-1-phenyl-2,4-pentadien-1-one]iron, 9Cl

Tricarbonyl(2,4-pentadienophenone)iron, 8Cl. Tricarbonyl[1-benzoyl-1,3-butadiene]iron

[32734-63-7]

As (η^4 -1-Bromo-1,3-butadiene)tricarbonyliron, Fe-00174 with

M 298.078

syn-form

Yellow-orange cryst. (pet. ether). Mp 84-6°.

anti-form [32734-66-0]

Yellow cryst. (pet. ether). Mp 66-8°, 87.5-88.5°.

Greaves, E.O. *et al*, *J. Chem. Soc., Chem. Commun.*, 1969, 1124 (*synth*, *pmr*, *ir*)Anisimov, K.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1970, 2533 (*ir*)Graf, R.E. *et al*, *J. Organomet. Chem.*, 1976, **122**, 377 (*synth*, *pmr*, *ms*)Frederiksen, J.S. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 3863 (*synth*)C₁₄H₁₀FeO₅

Fe-01157

Tetracarbonyl[(3,4- η)-4-phenyl-3-buten-2-one]iron, 9Cl
[55095-52-8]

As Tetracarbonyl[(2,3- η)-3-phenyl-2-propenoic acid]-iron, Fe-01009 with

M 314.077

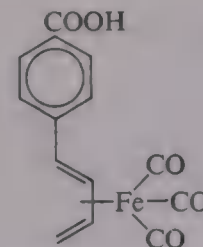
Yellow cryst. (pentane). Mp 53-4°. Unstable; readily decarbonylates to Tricarbonyl[(O,2,3,4- η)-4-phenyl-3-buten-2-one]iron, Fe-01025.Cardaci, G. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 1412; *J. Chem. Soc., Dalton Trans.*, 1975, 1041 (*synth*, *ir*, *pmr*)C₁₄H₁₀FeO₅

Fe-01158

Tricarbonyl[4-(η^4 -1,3-butadienyl)benzoic acid]iron

Tricarbonyl[4-(η^4 -1,3-butadienyl)benzoate]ferrate(1-)-hydrogen compd., 10Cl

[79215-47-7]



M 314.077

Yellow-green cryst. (EtOH aq.). Mp 170-5° dec. pK_a 5.05 (25°, 80% EtOH).*Me ester*: [79201-10-8].C₁₅H₁₂FeO₅ M 328.104

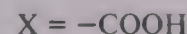
Yellow solid. Mp 106-7°.

Landesberg, J.M. *et al*, *J. Org. Chem.*, 1981, **45**, 5025 (*synth*, *pmr*, *ir*)C₁₄H₁₀FeO₅

Fe-01159

Tricarbonyl[(2,3,4,5- η)-5-phenyl-2,4-pentadienoic acid]iron

As Tricarbonyl[(2,3,4,5- η)-5-phenyl-2,4-pentadienal]iron, Fe-01155 with



M 314.077

syn,syn-form*Me ester*: [32661-09-9].C₁₅H₁₂FeO₅ M 438.307

No phys. props. reported.

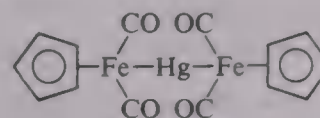
Emerson, G.F. *et al*, *J. Org. Chem.*, 1964, **29**, 3620 (*pmr*)Whitlock, H.W. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 6665.C₁₄H₁₀Fe₂HgO₄

Fe-01160

Tetracarbonylbis(η^5 -2,4-cyclopentadien-1-yl)(mercury)di-iron, 9Cl

Tetracarbonyldi- π -cyclopentadienyl- μ -mercuriodiiron, 8Cl. Bis[dicarbonyl- π -cyclopentadienyliron]mercury

[35885-95-1]



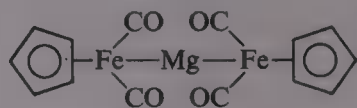
M 554.515

Orange-yellow cryst., stable in air. Mp 145-6°.

King, R.B., *J. Inorg. Nucl. Chem.*, 1963, **25**, 1296 (*synth*, *ir*, *pmr*)Lewis, J. *et al*, *J. Chem. Soc. (A)*, 1966, 1663 (*ms*)Fischer, R.D. *et al*, *J. Organomet. Chem.*, 1967, **7**, 135 (*ir*)Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1972, 2605 (*synth*)Roberts, R.M.G., *J. Organomet. Chem.*, 1973, **47**, 359 (*synth*)Miholova, D. *et al*, *Inorg. Chim. Acta*, 1980, **41**, 119; **43**, 43 (*synth*)

C₁₄H₁₀Fe₂MgO₄

Fe-01161

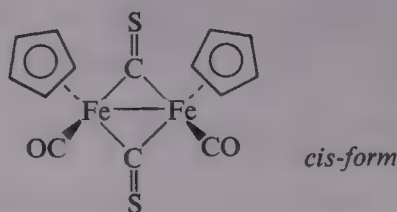
Bis[dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron]magnesium, 9Cl

M 378.230

V. air-sensitive.

bis-Py solvate: [37337-07-8]. Bright-yellow solid (C₆H₆).*bis-THF* solvate: [55800-08-3]. Yellow solid (Et₂O/pentane).McVicker, G.B. *et al*, *Inorg. Chem.*, 1975, **14**, 2087 (*synth*, *ir*, *pmr*)C₁₄H₁₀Fe₂O₂S₂

Fe-01162

Bis[μ-(carbonothioyl)]dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)diiron, 9Cl*Di-μ-thiocarbonyldicarbonyldi-(π-cyclopentadienyl)diiron*. *Bis[cyclopentadienylcarbonylthiocarbonyliron]* [67225-86-9]

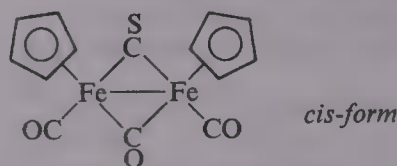
M 386.046

Black cryst. (CS₂). *cis* ⇌ *trans* isomerisation occurs in soln.Dunker, J.W. *et al*, *J. Organomet. Chem.*, 1976, **114**, C49 (*synth*, *struct*, *pmr*, *ir*)Efraty, A. *et al*, *Inorg. Chem.*, 1978, **17**, 2831 (*ms*)C₁₄H₁₀Fe₂O₃S

Fe-01163

[μ-(Carbonothioyl)]-μ-carbonyldicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)diiron, 10Cl*Tricarbonylbis(η⁵-cyclopentadienyl)(thiocarbonyl)diiron*

[71154-94-4]



M 369.985

Exists in soln. as interconverting mixt. of *cis*- and *trans*-forms. Shiny-black cryst. (hexane). Mp 159-61° dec.*cis-form* [71154-94-4]

Not separately characterised.

trans-form [67113-80-8]

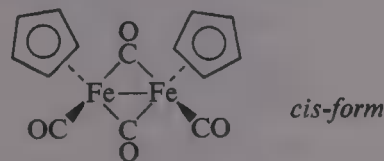
Not separately characterised.

Quick, M.H. *et al*, *J. Organomet. Chem.*, 1978, **160**, 231 (*synth*, *ir*, *pmr*, *cmr*, *ms*)Beckman, D.A. *et al*, *J. Organomet. Chem.*, 1979, **179**, 187 (*struct*)Quick, M.H. *et al*, *Inorg. Chem.*, 1981, **20**, 1123 (*cmr*)C₁₄H₁₀Fe₂O₄

Fe-01164

Di-μ-carbonyldicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)diiron, 9Cl*Bis(cyclopentadienyldicarbonyliron)*. *Bis(dicarbonylcyclopentadienyliiron)*. *Bis(cyclopentadienyl)-tetracarbonyldiiron*

[12154-95-9]



M 353.925

Solns. contain interconverting *cis*, *trans* and *nonbridged* (minor) forms which undergo rapid bridging ⇌ terminal CO interconversion.*cis-form* [33221-55-5]

Thermodynamically less stable form. Black cryst. Mp 146° dec.

trans-form [32757-46-3]

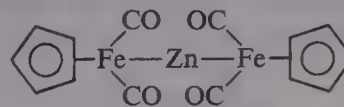
Dark red-purple cryst. Mp 194° dec.

Piper, T.S. *et al*, *J. Inorg. Nucl. Chem.*, 1955, **1**, 165 (*synth*, *ir*)Hallam, B.F. *et al*, *J. Chem. Soc.*, 1956, 3030 (*synth*)Mills, O.S., *Acta Crystallogr.*, 1958, **11**, 620 (*cryst struct*, *trans-form*)*Organomet. Synth.*, 1965, **1**, 114.Manning, A.R., *J. Chem. Soc.*, 1968, 1319 (*ir*)Bryan, R.F. *et al*, *J. Chem. Soc. (A)*, 1970, 3064, 3068 (*cryst struct*, *cis-form*)Adams, R.D. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 6589 (*isom*)Harris, D.C. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 2398 (*cmr*)C₁₄H₁₀Fe₂O₄Zn

Fe-01165

Tetracarbonylbis(η⁵-2,4-cyclopentadien-1-yl)(zinc)diiron*Bis(cyclopentadienyldicarbonyliron)zinc*

[82246-68-2]



M 419.305

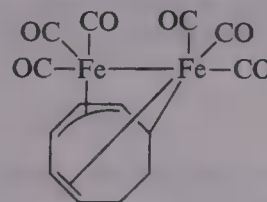
Orange or red prismatic cryst. (toluene). Mp 158.5-160°.

Reacts with H₂O and alcohols.Burlitch, J.M. *et al*, *Inorg. Chem.*, 1970, **9**, 563 (*synth*, *ir*, *mössbauer*)Burlitch, J.M. *et al*, *Organometallics*, 1982, **1**, 1074 (*synth*, *props*)C₁₄H₁₀Fe₂O₆

Fe-01166

Hexacarbonyl[(1,5,6-η:2,3,4-η)-1,3,5-cyclooctatriene]diiron

[12131-06-5]



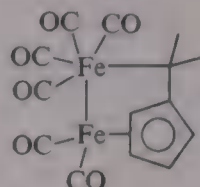
M 385.923

Fluxional molecule. Air-stable orange-red cryst. (pentane). Mp 101-3°. Bp_{0.1} 70° subl.King, R.B., *Inorg. Chem.*, 1963, **2**, 807 (*synth*)Cotton, F.A. *et al*, *J. Am. Chem. Soc.*, 1969, **91**, 843 (*struct*)Cotton, F.A. *et al*, *J. Organomet. Chem.*, 1969, **19**, 237 (*pmr*)

Cotton, F.A. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 1046 (*cmr*)C₁₄H₁₀Fe₂O₆

Fe-01167

Hexacarbonyl[μ-(1-(η⁵-2,4-cyclopentadien-1-ylidene)-1-methylethylidene)]diiron
(Dimethylfulvene)diiron hexacarbonyl. Hexacarbonyl-(cyclopentadienyleneisopropylidene)diiron



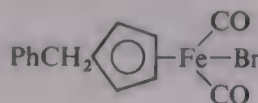
M 385.923

Orange-red cryst. (pet. ether). Mp 115-26° dec.

Weiss, E. *et al*, *Chem. Ber.*, 1962, **95**, 1186 (*synth, ir*)Kerber, R.C. *et al*, *Synthesis*, 1970, 449.C₁₄H₁₁BrFeO₂

Fe-01168

(η⁵-Benzylcyclopentadienyl)bromodicarbonyliron
Bromodicarbonyl[(1,2,3,4,5-η)-1-(phenylmethyl)-2,4-cyclopentadien-1-yl]iron. Bromodicarbonyl(benzyl-π-cyclopentadienyl)iron. Benzylcyclopentadienyliron dicarbonyl bromide

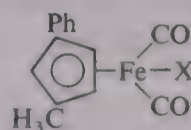


M 346.991

Red cryst. (CHCl₃/ligroin). Mp 82°.Hallam, B.F. *et al*, *J. Chem. Soc.*, 1956, 3030 (*synth, ir*)C₁₄H₁₁FeIO₂

Fe-01169

Dicarbonyliodo[(1,2,3,4,5-η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl]iron
(η⁵-1-Methyl-3-phenylcyclopentadienyl)dicarbonyliodoiron. (η⁵-1-Methyl-3-phenylcyclopentadienyl)dicarbonyliron iodide



X = I

M 393.991

Black oil.

Attig, T.G. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 619 (*synth, ir, ms*)C₁₄H₁₁FeNO₄

Fe-01170

[(1,2,3-η)-2-Butene-1,4-diyl]((phenylimino)carbonyl)tricarbonyliron, %1
1-Phenylaminomethyl-π-allylcarboxyiron tricarbonyl lactam. 1-Anilinomethyl-π-allylcarboxyiron tricarbonyl lactam

[53822-50-7]

As [[(1,2,3-η)-2-Butene-1,4-diyl]oxycarbonyl]tricarbonyliron, Fe-00275 with

X = NPh

M 313.092

Yellow prisms (CH₂Cl₂/hexane). Mp 104-5° dec.Becker, Y. *et al*, *Tetrahedron*, 1974, **30**, 839 (*synth, ir, pmr, ms*)C₁₄H₁₁FeNO₄

Fe-01171

Tetracarbonyl[N-(3-phenyl-2-propenylidene)methanamine]iron, 10Cl
[73643-71-7]

(OC)₄Fe—NMe=CHCH=CHPh

M 313.092

Mp 87-9°.

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1979, **182**, 399 (*struct, synth, ir*)C₁₄H₁₁FeO₂[⊕]

Fe-01172

Benzylidenedicarbonyl(η⁵-cyclopentadienyl)iron(1+)
Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(phenylmethylene)iron(1+), 10Cl

As Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)-(methoxymethylene)iron(1+), Fe-00421 with

X = Ph, Y = H

M 267.087 (ion)

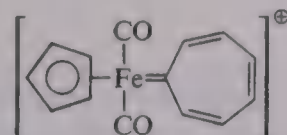
Benzylidene transfer reagent. Unstable in soln.

Hexafluorophosphate: [64494-45-7].

C₁₄H₁₁F₆FeO₂P M 412.051Orange solid (CH₂Cl₂/pentane).Brookhart, M. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 6099 (*synth, ir, pmr, cmr*)Brookhart, M. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 7802 (*use*)Brookhart, M. *et al*, *J. Organomet. Chem.*, 1980, **193**, C23 (*pmr*)Riley, P.E. *et al*, *Inorg. Chem.*, 1982, **21**, 1321 (*struct*)C₁₄H₁₁FeO₂[⊕]

Fe-01173

Dicarbonyl-2,4,6-cycloheptatrien-1-ylidene(η⁵-2,4-cyclopentadien-1-yl)iron(1+), 10Cl
η¹-Cycloheptatrienylidene-η⁵-cyclopentadienyldicarbonyliron(1+)



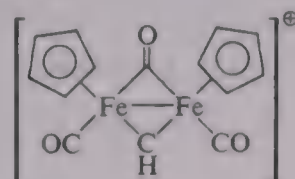
M 267.087 (ion)

Hexafluorophosphate: [73601-66-8].

C₁₄H₁₁F₆FeO₂P M 412.051Yellow-orange plates (CH₂Cl₂). Mp 180-180.5° dec.Allison, N.T. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 5224 (*synth, pmr, cmr, ir*)Riley, P.E. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 2458 (*struct*)Manganiello, F.J. *et al*, *J. Organomet. Chem.*, 1982, **228**, 273 (*pmr*)C₁₄H₁₁Fe₂O₃[⊕]

Fe-01174

μ-Carbonyldicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)-μ-methylidynediiron(1+)
[80461-93-4]



M 338.933 (ion)

Tetrafluoroborate: [81616-50-4].

C₁₄H₁₁BF₄Fe₂O₃ M 425.737

Red-brown solid.

Hexafluorophosphate: [82660-14-8].

C₁₄H₁₁F₆Fe₂O₃P M 483.897

Air-sensitive dull-red cryst., stable in solid state, unstable in soln.

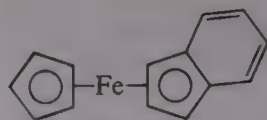
Casey, C.P. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 1134 (*synth*, *pmr*, *cmr*, *ir*)Kao, S.C. *et al*, *Organometallics*, 1982, **1**, 911 (*synth*, *ir*, *pmr*)C₁₄H₁₂Fe

Fe-01175

(η⁵-2,4-Cyclopentadien-1-yl)((1,2,3,3a,7a-η)-1H-inden-1-yl)iron, 9Cl

Benzoferrocene

[54845-16-8]



M 236.096

Red-violet air-stable cryst. (pentane or by subl.). Mp 74-6°.

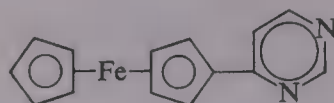
King, R.B. *et al*, *Inorg. Chem.*, 1964, **3**, 796 (*synth*, *ir*, *uv*, *pmr*)Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1975, **88**, 227 (*synth*)C₁₄H₁₂FeN₂

Fe-01176

4-Pyrimidinylferrocene, 9Cl

4-Ferrocenylpyrimidine

[35828-03-6]



M 264.109

Light-orange needles by subl. Mp 108-9°.

Wagner, R.M. *et al*, *Chem. Ber.*, 1971, **104**, 2975 (*synth*, *pmr*)C₁₄H₁₂FeO₂

Fe-01177

Benzylidicarbonyl-π-cyclopentadienyliron, 8Cl

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(phenylmethyl)-iron, 9Cl. σ-Benzyl-π-cyclopentadienyliron dicarbonyl.(η¹-Benzyl)(η⁵-cyclopentadienyl)dicarbonyliron

[12093-91-3]

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, Fe-00173 withX = —CH₂Ph

M 268.095

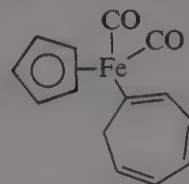
Bright-yellow cryst. (pet. ether). Mp 55-7°. Bp_{0.1} 50° subl.Bibler, J.P. *et al*, *J. Am. Chem. Soc.*, 1966, **88**, 4862 (*synth*, *ir*, *nmr*)Bruce, M.I., *Inorg. Nucl. Chem. Lett.*, 1967, **3**, 157; *J.**Organomet. Chem.*, 1967, **10**, 495 (*synth*, *ms*)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1974, **217**, 509 (*synth*)Pittman, C.U. *et al*, *J. Organomet. Chem.*, 1974, **72**, 399 (*synth*, *bibl*)Ellis, J.E. *et al*, *J. Organomet. Chem.*, 1976, **111**, 331 (*synth*)Pannell, K.H. *et al*, *J. Organomet. Chem.*, 1980, **186**, 85(*mössbauer*, *ir*)Brunner, H. *et al*, *J. Organomet. Chem.*, 1982, **224**, 295 (*synth*)C₁₄H₁₂FeO₂

Fe-01178

Dicarbonyl-1,3,5-cycloheptatrien-1-yl(η⁵-2,4-cyclopentadien-1-yl)iron

σ-Tropyl-π-cyclopentadienyldicarbonyliron

[67758-07-0]



M 268.095

Fluxional molecule, probably a mixt. of substitution isomers. No phys. props. reported. Unstable towards hydroxylic solvs.

Allison, N.T. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 5224 (*synth*, *ir*, *pmr*, *ms*)C₁₄H₁₂FeO₂

Fe-01179

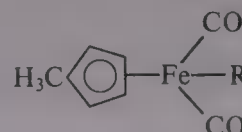
Dicarbonyl[(1,2,3,4,5-η)-1-methyl-2,4-cyclopentadien-1-yl]phenyliron, 9Cl

(η⁵-Methylcyclopentadienyl)dicarbonylphenyliron.

σ-Phenyl-π-(methylcyclopentadienyl)dicarbonyliron

[43157-74-0]

M 268.095



R = Ph

Characterised spectroscopically.

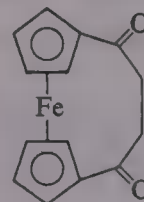
Jacobson, S.E. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 6962 (*synth*, *ir*, *pmr*)C₁₄H₁₂FeO₂

Fe-01180

[4]Ferrocenophane-1,4-dione

1,1'-(1,4-Dioxo-1,4-butanediyl)ferrocene, 9Cl. 1,4-Diketo[4]ferrocenophane. 1,4-Dioxo[4]ferrocenophane

[60829-99-4]



M 268.095

Mp 182-3°.

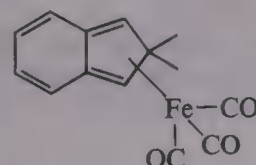
Hisatome, M. *et al*, *J. Organomet. Chem.*, 1976, **117**, C23 (*synth*, *ir*)C₁₄H₁₂FeO₃

Fe-01181

Tricarbonyl[(1,3,3a,7a-η)-2,2-dimethyl-2H-indene]iron, 9Cl

(2,2-Dimethylisoindene)tricarbonyliron

[12182-12-6]



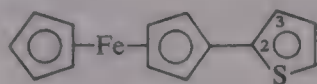
M 284.094

Yellow cryst. Mp 37°. Bp_{0.1} 87-92°.Roth, W.R. *et al*, *Tetrahedron Lett.*, 1967, 2053 (*synth*, *pmr*, *ms*)

C₁₄H₁₂FeS

(2-Thienyl)ferrocene

2-Ferrocenylthiophene



M 268.156

Golden hexagonal plates (EtOH). Mp 116.5-117.5°.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci.**Khim.*, 1964, **154**, 158; 1965, **165**, 575 (*synth*, *pmr*)Kaluski, Z. *et al*, *Zh. Strukt. Khim.*, 1966, **7**, 131 (*cryst struct*)

Fe-01182

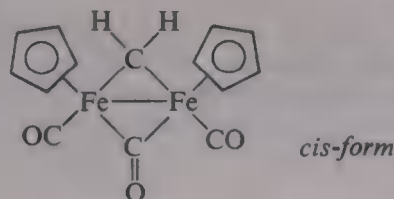
[12212-46-3]

As [μ -[(1,2,3- η :2,3,4- η)-2-Butyne-1,4-diyl]]hexacarbonyldiiron, Fe-00482 withR = CH₃

M 387.939

Previously formulated as Fe₂(CO)₅ complex. Deep orange-red needles. Mp 118° (108° dec., 115-7°). Bp₃ 90-100° subl.Nakamura, A. *et al*, *Bull. Chem. Soc. Jpn.*, 1965, **38**, 1868 (*synth*, *ir*)Joshi, K.K. *et al*, *J. Chem. Soc. (A)*, 1966, 594 (*synth*, *ir*, *pmr*)Victor, R. *et al*, *Org. Magn. Reson.*, 1978, **11**, 31 (*cmr*)C₁₄H₁₂Fe₂O₃

Fe-01183

 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -m-ethylenediironBis(η^5 -cyclopentadienyl)- μ -methylene-diiron tricarbonyl. Tricarbonylbis(η^5 -cyclopentadienyl)- μ -methylenediiron

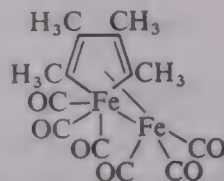
M 339.941

Exists as interconvertible mixture of *cis*- and *trans*-isomers (3.2:1) in soln. at r.t.; each isomer stable in soln. at -80°.*cis-form* [79839-80-8]Red-violet or cherry-red polymorphs (orange-red cryst.) (Et₂O/pentane). Mp 160-4°. *pmr* δ 10.33, 8.43 (CH₂) ppm.*trans-form* [79896-43-8]Pink-red solid or dark-violet cryst. (Et₂O/pentane). Mp 168-70° dec. *pmr* δ 9.63 (CH₂) ppm.Korswagen, R. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1981, **20**, 1049 (*synth*, *struct*, *ir*, *pmr*, *cmr*, *ms*)Casey, C.P. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 1134 (*synth*, *pmr*, *ir*, *cmr*)Kao, S.C. *et al*, *Organometallics*, 1982, **1**, 911 (*synth*, *ir*, *pmr*, *cmr*, *ms*)C₁₄H₁₂Fe₂O₆

Fe-01184

Hexacarbonyl[μ -[(1,2,3,4- η :1,4- η)-1,2,3,4-tetramethyl-1,3-butadiene-1,4-diyl]]diiron, 9ClHexacarbonyl[μ -(1,2,3,4-tetramethyl-1,3-butadienylene)]diiron, 8Cl

[12245-44-2]



M 387.939

Yellow cryst. Mp 149-51°.

Vaglio, G.A. *et al*, *Org. Mass Spectrom.*, 1971, **5**, 493 (*ms*)King, R.B. *et al*, *J. Organomet. Chem.*, 1973, **60**, C57 (*synth*)Herber, R.H. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 5437 (*mössbauer*)C₁₄H₁₂Fe₂O₆

Fe-01185

Hexacarbonyl[μ -[(1,2,3- η :2,3,4- η)-1,1,4,4-tetramethyl-2-butyne-1,4-diyl]]diiron, 9Cl

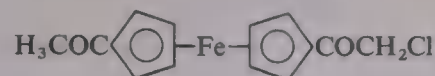
Hexacarbonyl(2,5-dimethyl-2,3,4-hexatriene)diiron

C₁₄H₁₃ClFeO₂

Fe-01186

1-Acetyl-1'-(chloroacetyl)ferrocene, 9Cl

[57812-06-3]



M 304.556

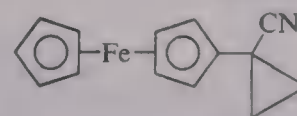
Elecko, P. *et al*, *Chem. Zvesti*, 1975, **29**, 411; *CA*, **84**, 44310.C₁₄H₁₃FeN

Fe-01187

(1-Cyanocyclopropyl)ferrocene, 9Cl

1-Cyano-1'-ferrocenylcyclopropane

[41395-67-9]



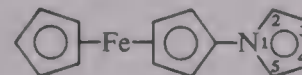
M 251.110

Orange-yellow needles (Et₂O/pet. ether). Mp 47-8°.Marr, G. *et al*, *J. Organomet. Chem.*, 1973, **47**, 417 (*synth*)C₁₄H₁₃FeN

Fe-01188

(1-Pyrrolyl)ferrocene

N-Ferrocenylpyrrole. 1H-Pyrrol-1-ylferrocene



M 251.110

Yellow-brown plates. Mp 83-83.5°. Bp₁₃ 90° subl.Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci.* *Khim.*, 1964, **154**, 158 (*synth*)Kaluski, Z. *et al*, *Zh. Strukt. Khim.*, 1966, **7**, 131 (*cryst struct*)C₁₄H₁₃FeN

Fe-01189

(2-Pyrrolyl)ferrocene

2-Ferrocenylpyrrole. 1H-Pyrrol-2-ylferrocene

M 251.110

Yellow-brown plates (hexane). Mp 143°, 148-149.5°.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci.* *Khim.*, 1965, **165**, 575 (*synth*, *pmr*)Kaluski, Z. *et al*, *Zh. Strukt. Khim.*, 1966, **7**, 131 (*cryst struct*)C₁₄H₁₃FeN

Fe-01190

(3-Pyrrolyl)ferrocene

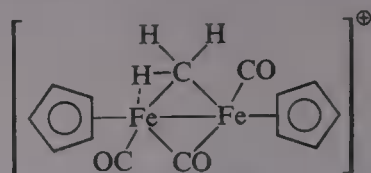
3-Ferrocenylpyrrole. 1H-Pyrrol-3-ylferrocene

M 251.110

Yellow-brown cryst. (hexane). Mp 188-188.5°.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1965, **165**, 575 (*synth*, *pmr*)C₁₄H₁₃Fe₂O₃⁺

Fe-01191

μ-Carbonyldicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)-μ-methyldiiron(1+)*Tricarbonylbis(η⁵-cyclopentadienyl)-μ-methyldiiron-(1+)*

M 340.949 (ion)

The 2 Fe centres and 3 hydrogens of the CH₃ group are nmr-equivalent at 0°.*Tetrafluoroborate*: [80461-95-6].C₁₄H₁₃BF₄Fe₂O₃ M 427.753

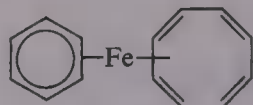
Dark-purple cryst.

Trifluoromethanesulfonate: [80461-96-7].C₁₅H₁₃F₃Fe₂O₆S M 490.013

Dark-purple cryst.

Casey, C.P. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 1134 (*synth*, *pmr*, *cmr*, *ir*)C₁₄H₁₄Fe

Fe-01192

(η⁶-Benzene)[(1,2,3,4-η)-1,3,5,7-cyclooctatetraene]iron, 10Cl
[72765-35-6]

M 238.112

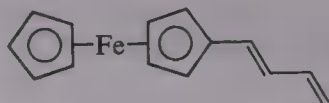
Deep-red cryst. (pentane). Unstable at r.t.

Bennett, M.A. *et al*, *Inorg. Chem.*, 1980, **19**, 1014 (*synth*, *pmr*, *ir*, *ms*)Ittel, S.D. *et al*, *Organometallics*, 1982, **1**, 1432 (*synth*, *pmr*)C₁₄H₁₄Fe

Fe-01193

1,3-Butadienylferrocene, 9Cl*1-Ferrocenyl-1,3-butadiene*

[12126-86-2]



M 238.112

(E)-form [34676-23-8]

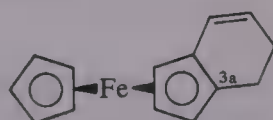
Red plates (ligroin). Mp 80°.

Osgerby, J.M. *et al*, *J. Chem. Soc.*, 1961, 4604 (*synth*)C₁₄H₁₄Fe

Fe-01194

(η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,3a,7a-η)-4,5-dihydro-1H-inden-1-yl]iron, 9Cl*1,2-Ferroceno-1,3-cyclohexadiene*

[36921-33-2]

**(3aR)-form**

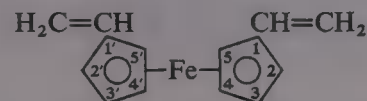
M 238.112

(3aR)-form**(R)_{planar}-form**Mp 37-8°. [α]_D²² –1475° (c, 0.1 in EtOH).**(3aS)-form****(S)_{planar}-form**Mp 37-8°. [α]_D²² +1485° (c, 0.3 in EtOH).Schlögl, K. *et al*, *Naturwissenschaften*, 1961, **48**, 376; *Monatsh. Chem.*, 1964, **95**, 576 (*ord*, *uv*, *synth*, *ir*)Schlögl, K. *et al*, *Tetrahedron Lett.*, 1963, 1473.Schlögl, K., *Fortschr. Chem. Forsch.*, 1966, **6**, 479 (*rev*)C₁₄H₁₄Fe

Fe-01195

1,1'-Divinylferrocene*1,1'-Diethenylferrocene, 9Cl. Bis(vinyl-π-cyclopentadienyl)iron*

[1291-66-3]



M 238.112

Shiny-red solid. Mp 41-3°. Bp_{0.02} 40° subl. Readily polymerised and dec. slowly in air.Schlögl, K. *et al*, *Naturwissenschaften*, 1961, **9**, 376 (*synth*)Pauson, P.L. *et al*, *J. Chem. Soc. (C)*, 1966, 251 (*synth*, *uv*, *ir*)Lee Hanlan, A.J. *et al*, *Inorg. Chem.*, 1980, **19**, 1543 (*synth*, *pmr*, *cmr*)C₁₄H₁₄Fe

Fe-01196

1,2-Divinylferrocene*1,2-Diethenylferrocene, 10Cl. (η⁵-Cyclopentadienyl)(η⁵-1,2-divinylcyclopentadienyl)iron*

[62922-31-0]

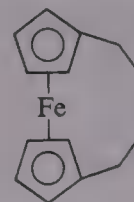
M 238.112

Oil. Bp_{0.3} 80°.Marquarding, D. *et al*, *J. Chem. Res. (S)*, 1977, 82; *J. Chem. Res. (M)*, 915 (*synth*, *pmr*)C₁₄H₁₄Fe

Fe-01197

[4]Ferrocenophan-2-ene*1,1'-(2-Butene-1,4-diyl)ferrocene, 9Cl*

[41572-78-5]



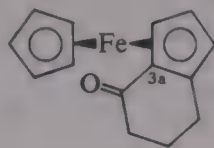
M 238.112

Bright-yellow cryst. (pentane). Mp 86-8° (*in vacuo*).Bp_{0.01} 100°. Exhibits fluxional pmr spectrum.Katz, T.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 2934 (*synth*, *pmr*, *ir*, *ms*)

C₁₄H₁₄FeO

Fe-01198

(η^5 -2,4-Cyclopentadien-1-yl)((1,2,3,3a,7a- η)-4,5,6,7-tetrahydro-4-oxo-1H-inden-1-yl)iron, η Cl
 Ferrocenocyclohexenone. 1,2-(α -Ketotetramethylene)-ferrocene. 1,2-(α -Oxotetramethylene)ferrocene



M 254.111

(3aR)-form [1271-90-5]

Orange-red cryst. (pet. ether). Mp 83-5° (78-80°). $[\alpha]_D^{15} +585^\circ$ (c, 0.12 in EtOH).

(-)-Menthylhydrazone:

C₂₅H₃₄FeN₂O₂ M 450.403

Yellow cryst. (MeOH or EtOH). Mp 195-6°. $[\alpha]_D^{15} +1175^\circ$ (c, 0.25 in EtOH).

(3aS)-form

Orange-red cryst. (pet. ether). Mp 76-9°. $[\alpha]_D^{20} -580^\circ$ (c, 0.5 in EtOH).

(-)-Menthylhydrazone: Yellow cryst. (MeOH). Mp 193-6° (191-4°). $[\alpha]_D^{15} -350^\circ$ (CHCl₃).

(±)-form [12126-96-4]

Orange-red cryst. (pet. ether). Mp 85.4-85.7°.

Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 3290 (*synth*, *uv*, *ir*)

Thomson, J.B. *et al*, *Tetrahedron Lett.*, 1959, **No. 6**, 26 (*resoln*)

Schlögl, K. *et al*, *Monatsh. Chem.*, 1964, **95**, 576 (*resoln*, *ord*)

Schlögl, K., *Fortschr. Chem. Forsch.*, 1966, **6**, 479 (*rev*)

Lehner, H. *et al*, *Monatsh. Chem.*, 1970, **101**, 895 (*abs config*)

Shirafuji, T. *et al*, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 2884 (*cd*, *ord*)

Martin, M.L. *et al*, *J. Organomet. Chem.*, 1975, **97**, 261 (*pmr*, *cmr*)

Maier, N.A. *et al*, *Zh. Obshch. Khim.*, 1980, **50**, 2625 (*synth*)

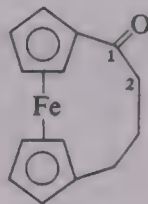
C₁₄H₁₄FeO

Fe-01199

[4]Ferrocenophan-1-one

1,1'-(1-Oxo-1,4-butanediyl)ferrocene, η Cl. 1-Keto[4]-ferrocenophane. α -Keto-1,1'-tetramethyleneferrocene. 1-Oxo[4]ferrocenophane

[31884-28-3]



M 254.111

Orange cryst. Mp 101-2°.

Rosenblum, M. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 316 (*synth*, *uv*)

C₁₄H₁₄FeO

Fe-01200

[4]Ferrocenophan-2-one

1,1'-(2-Oxo-1,4-butanediyl)ferrocene, η Cl. 2-Keto[4]-ferrocenophane. β -Keto-1,1'-tetramethyleneferrocene. 2-Oxo[4]ferrocenophane

[41583-25-9]

M 254.111

Yellow cryst. (pet. ether). Mp 113.5-114°.

Rosenblum, M. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 316 (*synth*, *uv*)

Carroll, S.R. *et al*, *CA*, 1973, **78**, 96721 (*ms*)

C₁₄H₁₄FeO

Fe-01201

1-Ferrocenyl-2-buten-1-one

(1-Oxo-2-butenyl)ferrocene. Crotonoylferrocene

[1284-76-0]



M 254.111

Red solid. Mp 108-10°.

Gautheron, B. *et al*, *Bull. Soc. Chim. Fr.*, 1971, 3636 (*synth*)

Turbitt, T.D. *et al*, *J. Organomet. Chem.*, 1972, **46**, 109 (*synth*, *pmr*)

C₁₄H₁₄FeO

Fe-01202

4-Ferrocenyl-3-buten-2-one

(3-Oxo-1-butenyl)ferrocene, η Cl. 1-Acetyl-2-ferrocenylethylene

[12171-14-1]



M 254.111

Bright-red plates (ligroin). Mp 85°.

Osgerby, J.M. *et al*, *J. Chem. Soc.*, 1961, 4604 (*synth*)

Furdik, M. *et al*, *Acta Fac. Rerum Nat. Univ. Comenianae, Chimia*, 1964, **8**, 569 (*synth*)

Koridze, A.A. *et al*, *J. Organomet. Chem.*, 1970, **22**, 157

(polarog, *pmr*)

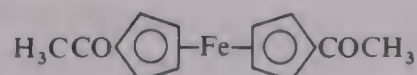
Kozlov, N.S. *et al*, *Dokl. Akad. Nauk Beloruss. SSSR*, 1973, **17**, 640; *CA*, **79**, 105381 (*synth*, *ir*, *uv*)

C₁₄H₁₄FeO₂

Fe-01203

1,1'-Diacetylferrocene, η Cl

[1273-94-5]



M 270.110

Orange-red needles (C₆H₆ or EtOH aq.). Mp 130-1°.

Pavlik, I. *et al*, *Collect. Czech. Chem. Commun.*, 1966, **31**, 1958 (*synth*, *ir*)

Org. Reactions, 1969, **17**, 1 (*synth*)

Palenik, G.J., *Inorg. Chem.*, 1970, **9**, 2424 (*cryst struct*)

Imai, H., *Bull. Chem. Soc. Jpn.*, 1972, **45**, 1264 (*ms*)

Makova, M.K. *et al*, *J. Organomet. Chem.*, 1973, **55**, 185 (*pmr*)

Braun, S. *et al*, *J. Organomet. Chem.*, 1975, **97**, 429 (*cmr*)

Haworth, D.T. *et al*, *J. Chem. Educ.*, 1976, **53**, 730 (*synth*, *hplc*)

C₁₄H₁₄FeO₂

Fe-01204

1,2-Diacetylferrocene, η Cl

[12766-56-2]

M 270.110

Orange cryst. (Et₂O). Mp 105-6° (96-7°).

Rosenblum, M. *et al*, *J. Am. Chem. Soc.*, 1958, **80**, 5443 (*synth*, *ir*)

Moise, C. *et al*, *Bull. Soc. Chim. Fr.*, 1973, 1382 (*synth*, *pmr*)

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **96**, 279 (*pmr*)

C₁₄H₁₄FeO₂

Fe-01205

1,3-Diacetylferrocene, η Cl

[32681-24-6]

M 270.110

No phys. props. recorded.

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **96**, 275, 279 (*synth*, *Tetrahedron Lett.*, *pmr*)

C₁₄H₁₄FeO₂

Fe-01206

(1,3-Dioxobutyl)ferrocene, 9Cl

Ferrocenoylacetone. Acetoacetylferrocene

[12302-11-3]



M 270.110

Bright-red needles (2,2,3-trimethylpentane). Mp 97.5-98.5°.

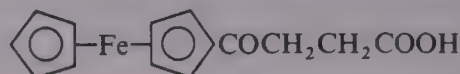
Cu(II) complex: [53866-84-5]. Golden-yellow plates (CHCl₃/Et₂O). Mp 237-8° dec.*Ni(II) complex*: [53866-79-8]. Red-orange dihydrate (CHCl₃/pet. ether).*Mn(II) complex*: Black-brown cryst. (CHCl₃/pet. ether). Mp 271-3°.*Zn(II) complex*: Red-orange solid. Mp 234-6°.Wolf, L. *et al*, *Naturwissenschaften*, 1957, **44**, 442 (*synth*, *derivs*)Weinmayr, V., *Naturwissenschaften*, 1958, **45**, 311 (*synth*)Cain, E.C. *et al*, *J. Org. Chem.*, 1961, **26**, 1030 (*synth*)Imai, H. *et al*, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 1264; 1974, **47**, 2497 (*derivs*, *ms*)C₁₄H₁₄FeO₃

Fe-01207

γ-Oxoferrocenebutanoic acid

(3-Carboxy-1-oxopropyl)ferrocene, 9Cl. 4-Ferrocenyl-4-oxobutanoic acid

[1291-72-1]



M 286.110

Orange cryst. Mp 168°.

Me ester:C₁₅H₁₆FeO₃ M 300.137

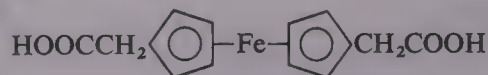
Orange cryst. Mp 99.5-100°.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR*, 1963, **152**, 627 (*synth*)U.S.P., 3 461 287, (1969); *CA*, **71**, 81541 (*synth*)C₁₄H₁₄FeO₄

Fe-01208

1,1'-Ferrocenediacetic acid

1,1'-Bis(carboxymethyl)ferrocene. Bis(carboxymethyl-π-cyclopentadienyl)iron



M 302.109

Yellow cryst. (Et₂O/pentane). Mp 140-3° dec. Darkens from 137°.*Dinitrile*: [32677-74-0]. 1,1'-Ferrocenediacetonitrile, 8Cl. 1,1'-Di(cyano-C-methyl)ferrocene.C₁₄H₁₂FeN₂ M 264.109

Yellow cryst. (hexane). Mp 73-4°.

Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 3416 (*synth*)Sonoda, A. *et al*, *J. Organomet. Chem.*, 1971, **26**, 133 (*deriv*, *synth*, *ir*, *pmr*)C₁₄H₁₄Fe₂N₄O₄S₂

Fe-01209

Bis(μ-benzylthio)tetranitrosyldiiron

Bis(μ-benzenemethanethiolato)tetranitrosyldiiron, 10Cl

[79827-00-2]

As Tetranitrosylbis(trifluoromethanethiolato)diiron, Fe-00005 with

R = -CH₂Ph

M 478.103

Exists as a mixt. of *syn*- and *anti*-isomers in soln. Red-purple cryst. Mp 148-50°.Seyferth, D. *et al*, *J. Organomet. Chem.*, 1981, **218**, C5 (*synth*, *ir*)Rauchfuss, T.B. *et al*, *Inorg. Chem.*, 1982, **21**, 827 (*ir*, *pmr*, *ms*)C₁₄H₁₄Fe₂N₄O₄Se₂

Fe-01210

Bis(μ-benzylseleno)tetranitrosyldiiron

Bis(μ-benzenemethaneselenolato)tetranitrosyldiiron

[79919-44-1]

As Bis(μ-benzeneselenolato)tetranitrosyldiiron, Fe-00870 with

R = -CH₂Ph

M 571.903

Brown microcryst. (CH₂Cl₂/MeOH).Rauchfuss, T.B. *et al*, *Inorg. Chem.*, 1982, **21**, 827 (*synth*, *ir*, *pmr*, *ms*)C₁₄H₁₄Fe₂N₄O₄Te₂

Fe-01211

Bis(μ-benzyltelluro)tetranitrosyldiiron

Bis(μ-benzenemethanetellurolato)tetranitrosyldiiron

[79919-46-3]

As Bis(μ-benzenetellurolato)tetranitrosyldiiron, Fe-00871 with

R = -CH₂Ph

M 669.183

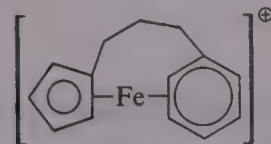
Red-brown powder (CH₂Cl₂/MeOH).Rauchfuss, T.B. *et al*, *Inorg. Chem.*, 1982, **21**, 827 (*synth*, *ir*, *pmr*, *ms*)C₁₄H₁₅Fe[⊕]

Fe-01212

[η¹¹-1-(3-Phenylpropyl)-2,4-cyclopentadien-1-yl]iron(1+),

10Cl

1,1'-Trimethylenebenzenecyclopentadienyliron(1+)



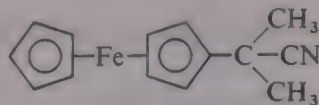
M 239.120 (ion)

Hexafluorophosphate: [65584-69-2].C₁₄H₁₅F₆FeP M 384.084Yellow cryst. (CH₂Cl₂/hexane). Dec. >200°.Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1977, **142**, 89 (*synth*, *struct*, *pmr*)

C₁₄H₁₅FeN

Fe-01213

(1-Cyano-1-methylethyl)ferrocene, 9Cl
2-Cyano-2-ferrocenylpropane. α,α -Dimethylferrocenylmethyl cyanide. 2-Ferrocenyl-2-methylpropionitrile
[33010-30-9]



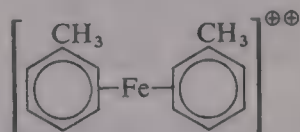
M 253.126

Pale-yellow needles (pet. ether). Mp 55.5-56°.

Marr, G. *et al*, *J. Organomet. Chem.*, 1973, **47**, 417 (*synth*)Nefedov, V.A. *et al*, *Zh. Org. Khim.*, 1976, **12**, 2012 (*synth*)C₁₄H₁₆Fe²⁺

Fe-01214

Bis[(1,2,3,4,5,6- η)-methylbenzene]iron(2+), 9Cl
Bis(toluene)iron(2+), 8Cl



M 240.127 (ion)

Bis(hexafluorophosphate): [35004-40-1].

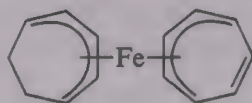
C₁₄H₁₆F₁₂FeP₂ M 530.056

Orange solid.

Helling, J.F. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 930 (*synth*)Astruc, D. *et al*, *Tetrahedron*, 1976, **32**, 245 (*synth*, *pmr*)C₁₄H₁₆Fe

Fe-01215

[(1,2,3,4,5- η)-2,4-Cycloheptadien-1-yl][(1,2,3,4,5- η)-2,4,6-cycloheptatrien-1-yl]iron, 10Cl
[59537-79-0]



M 240.127

Dark-red air-sensitive cryst. (pentane).

Blackborow, J.R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1977, 2205 (*synth*, *struct*, *pmr*, *cmr*)Ittel, S.D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 3874 (*synth*, *pmr*)C₁₄H₁₆Fe

Fe-01216

[(1,2,3,4- η)-1,3,5-Cycloheptatriene][(1,2,3,4,5,6- η)-methylbenzene]iron, 10Cl
(η^4 -Cycloheptatriene)(η^6 -toluene)iron
[71465-11-7]

As (η^6 -Benzene)[(1,2,3,4- η)-1,3,5-cycloheptatriene]iron, Fe-01065 withR = CH₃

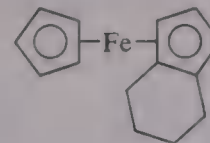
M 240.127

Thermally unstable red oil.

Ittel, S.D. *et al*, *J. Organomet. Chem.*, 1979, **172**, C47 (*synth*, *pmr*)C₁₄H₁₆Fe

Fe-01217

(η^5 -2,4-Cyclopentadien-1-yl)((1,2,3,3a,7a- η)-4,5,6,7-tetrahydro-1H-inden-1-yl]iron, 9Cl
1,2-Ferroceno-1-cyclohexene. Tetrahydrobenzoferrrocene. [4](1,2)Ferrocenophane
[33039-67-7]



M 240.127

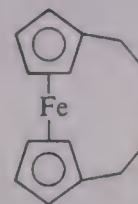
Orange cryst. Mp 39-41° (34-6°). Bp_{0.01} 70-80°.King, R.B. *et al*, *Angew. Chem.*, 1963, **75**, 642 (*synth*)Schlögl, K. *et al*, *Monatsh. Chem.*, 1964, **95**, 576 (*synth*)Bitterwolf, T.E. *et al*, *J. Organomet. Chem.*, 1981, **215**, 77 (*pmr*)C₁₄H₁₆Fe

Fe-01218

[4]Ferrocenophane

1,1'-(1,4-Butanediyl)ferrocene, 9Cl. 1,1'-Tetramethyleneferrocene

[33039-65-5]



M 240.127

Yellow cryst. Mp 63-4°.

Lüttringhaus, A. *et al*, *Angew. Chem.*, 1958, **70**, 438;*Makromol. Chem.*, 1961, **44-46**, 669 (*synth*)Rosenblum, M. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 316 (*synth*, *pmr*, *uv*)C₁₄H₁₆FeN₂

Fe-01219

1-Cyano-2-[(dimethylamino)methyl]ferrocene

2-[(Dimethylamino)methyl]ferrocenecarbonitrile, 8Cl

As 1-Chloro-2-[(dimethylamino)methyl]ferrocene, Fe-01092 with

X = CN

M 268.141

Red-orange plates (pet. ether). Mp 71-2°.

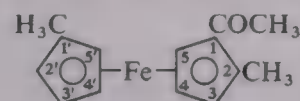
Marr, G. *et al*, *J. Organomet. Chem.*, 1969, **16**, 141 (*synth*, *ir*)C₁₄H₁₆FeO

Fe-01220

1-Acetyl-1',2-dimethylferrocene, 9Cl

2-Acetyl-1,1'-dimethylferrocene

[12215-83-7]



M 256.127

Red cryst. (pentane). Mp 15-6°.

Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 2749 (*synth*, *ir*, *uv*)C₁₄H₁₆FeO

Fe-01221

1-Acetyl-1',3-dimethylferrocene, 9Cl

3-Acetyl-1,1'-dimethylferrocene

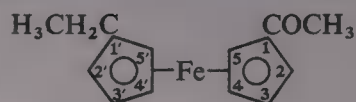
[12215-82-6]

M 256.127

Orange needles. Mp 48.4-48.6°.

Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 2749 (*synth*, *ir*, *uv*)**C₁₄H₁₆FeO****Fe-01222****1-Acetyl-1'-ethylferrocene, 9CI***(Acetylcyclopentadienyl(ethylcyclopentadienyl)iron*

[1316-96-7]



M 256.127

Orange needles (pet. ether). Mp 12.5-13.2°.

2,4-Dinitrophenylhydrazone: Blue-black rods (EtOAc/EtOH). Mp 177.5-178.5°.Rosenblum, M. *et al*, *J. Am. Chem. Soc.*, 1958, **80**, 5443 (*synth*)Paul, J. *et al*, *Monatsh. Chem.*, 1972, **103**, 243 (*pmr*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **96**, 275 (*synth*)Shul'pin, G.B., *Zh. Obshch. Khim.*, 1981, **51**, 2152 (*synth*)**C₁₄H₁₆FeO****Fe-01223****1-Acetyl-2-ethylferrocene, 9CI**

[1316-97-8]

M 256.127

Orange cryst. (pet. ether). Mp 42.5-44.5°. Bp_{0.1} 95°.

Opt. active form also known.

Rosenblum, M. *et al*, *J. Am. Chem. Soc.*, 1958, **80**, 5443 (*synth*)Paul, J. *et al*, *Monatsh. Chem.*, 1972, **103**, 243 (*pmr*)Marquarding, D. *et al*, *J. Chem. Res. (S)*, 1977, 82 (*synth*, *abs config*)**C₁₄H₁₆FeO****Fe-01224****1-Acetyl-3-ethylferrocene, 9CI**

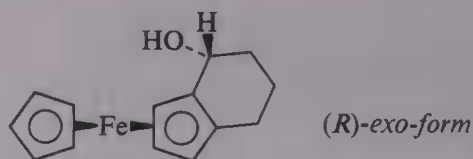
[1316-95-6]

M 256.127

Fine orange needles (pet. ether). Mp 11.6-12.6°.

2,4-Dinitrophenylhydrazone: Dark-purple rods (EtOAc/EtOH). Mp 179-80°.Rosenblum, M. *et al*, *J. Am. Chem. Soc.*, 1958, **80**, 5443 (*synth*)Paul, J. *et al*, *Monatsh. Chem.*, 1972, **103**, 243 (*pmr*)**C₁₄H₁₆FeO****Fe-01225****(η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,3a,7a-η)-4,5,6,7-tetrahydro-4-hydroxy-1H-inden-1-yl]iron, 9CI***2,3-Ferrocenocyclohexenol. 1,2-(α-Hydroxytetramethylene)ferrocene*

[12147-34-1]



M 256.127

(R)-exo-formMp 69-71°. [α]_D²⁵ +130° (c, 0.4 in EtOH).**(R)-endo-form**Yellow liq. Bp_{0.01} 110-20°. [α]_D +43°.**(±)-exo-form** [67069-07-2]

Mp 70.5-72.5°.

Ac:

C₁₆H₁₈FeO₂ M 298.164

Yellow cryst. Mp 65-6°.

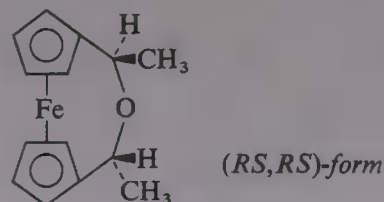
(±)-endo-form [1271-95-0]

Yellow liq.

Ac: Mp 48.5-49.5°.

Trifan, D.S. *et al*, *Tetrahedron Lett.*, 1960, 1 (*synth*, *ir*)Hill, E.A. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 4216 (*synth*, *ir*)Schlögl, K. *et al*, *Monatsh. Chem.*, 1964, **95**, 576; 1968, **99**, 2175; 1972, **103**, 243 (*synth*, *pmr*, *resoln*)**C₁₄H₁₆FeO****Fe-01226****1,1'-(Oxydiethylidene)ferrocene, 9CI***1,3-Dimethyl-2-oxa[3]ferrocenophane. 1,1'-Di(α-ethyleneoxy)ferrocene. 6,8-Dimethyl-7-oxa[3]ferrocenophane*

[12127-00-3]



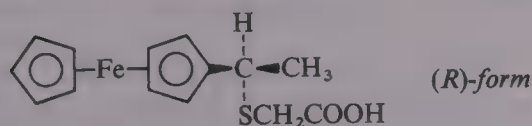
M 256.127

(RS,RS)-form [12295-56-6]*trans-form. (±)-form*Orange-yellow plates or yellow needles (ligroin). Mp 108.5-109°. Bp_{1.5} 80° subl.**(RS,SR)-form** [12295-57-7]*cis-form. meso-form*

Orange-yellow plates (ligroin). Mp 107.5-108°.

Knox, G.R. *et al*, *J. Chem. Soc.*, 1961, 4619 (*synth*)Mashburn, T.A. *et al*, *J. Org. Chem.*, 1961, **26**, 1671 (*synth*)Schlögl, K. *et al*, *Monatsh. Chem.*, 1961, **92**, 219 (*synth*)Winslow, E.C. *et al*, *J. Org. Chem.*, 1961, **26**, 2982 (*synth*)Pauson, P.L. *et al*, *J. Chem. Soc.*, 1966, 251 (*synth*, *purifn*, *pmr*)Yamakawa, K. *et al*, *J. Organomet. Chem.*, 1973, **52**, 407 (*synth*, *pmr*, *purifn*)Piorko, A. *et al*, *Org. Magn. Reson.*, 1981, **16**, 312 (*cmr*)**C₁₄H₁₆FeO₂S****Fe-01227****[1-[(Carboxymethyl)thio]ethyl]ferrocene, 9CI***(1-Ferrocenylethyl)thioglycollic acid*

[56483-18-2]



M 304.186

(R)-form [56498-34-1]Dark-red oil. [α]_D²⁵ +37.9° (c, 1 in MeOH).*Ephedrine salt*: [56552-66-0]. Fine cryst. Mp 162-4° dec.**(S)-form** [56498-35-2]Dark-red oil. [α]_D²⁵ -20° (c, 10 in MeOH).*Ephedrine salt*: [56552-65-9]. Orange plates (MeOH).

Mp 172-3° dec.

(±)-form

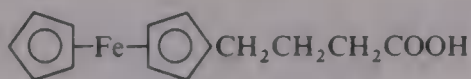
Dark-yellow solid. Mp 85° (80-2°).

*Me ester:*C₁₅H₁₈FeO₂S M 318.213

Yellow needles. Mp 56°.

Ratajczak, A. *et al*, *J. Organomet. Chem.*, 1975, **91**, 73 (*synth, resoln, pmr, ir*)Eberle, G. *et al*, *Tetrahedron*, 1978, **34**, 977.Ratajczak, A. *et al*, *Bull. Acad. Pol. Sci., Ser. Sci. Chim.*, 1979, **27**, 661 (*synth, resoln*)**C₁₄H₁₆FeO₃****Fe-01228****Ferrocenebutanoic acid***γ-Ferrocenylbutyric acid. (3-Carboxypropyl)ferrocene, 9Cl*

[1291-76-5]

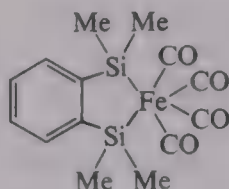


M 288.126

Yellow cryst. Mp 115-6°.

*Me ester:*C₁₅H₁₈FeO₃ M 302.152Yellow cryst. (hexane). Mp 20°. Bp₄ 168-70°.Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 3263 (*synth*)U.S.P., 3 461 287, (1969); *CA*, **71**, 81541 (*synth*)Fiorina, V.J. *et al*, *J. Med. Chem.*, 1978, **21**, 393.Din, L.B. *et al*, *Tetrahedron Lett.*, 1979, 4783 (*synth*)Salisova, M. *et al*, *CA*, 1981, **94**, 84260 (*synth*)**C₁₄H₁₆FeO₄Si₂****Fe-01229****Tetracarbonyl[(1,2-phenylenebis(dimethylsilylene))iron, 9Cl***1,1,3,3-Tetramethyl-2,2,2-tetracarbonyl-1,3-dihydrobenzo[d][2,1,3]ferradisilole*

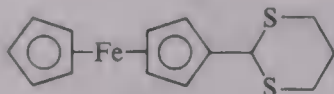
[56977-62-9]



M 360.296

Mp 46-7°. Bp_{0.005} 38-40° subl.Fink, W., *Helv. Chim. Acta*, 1976, **59**, 606 (*synth, pmr, ms*)**C₁₄H₁₆FeS₂****Fe-01230****1,3-Dithian-2-ylferrocene, 9Cl***2-Ferrocenyl-1,3-dithiane*

[54762-67-3]

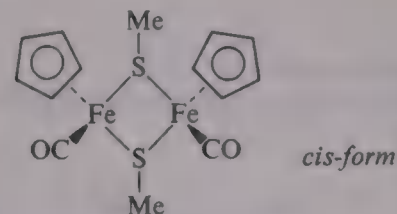


M 304.247

Brilliant-orange needles (hexane). Mp 110-110.5°.

Reuter, M.J. *et al*, *J. Organomet. Chem.*, 1974, **82**, 201 (*synth, ir, pmr, ms*)**C₁₄H₁₆Fe₂O₂S₂****Fe-01231****Dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)bis[μ-(methanethiolato)]diiron, 9Cl***Dicarbonyldi-π-cyclopentadienylbis(μ-methanethiolato)diiron, 8Cl*

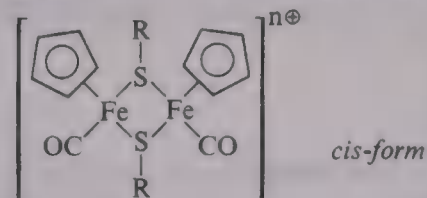
[12087-63-7]



M 392.093

cis-formBlack cryst. (Et₂O/pentane). Mp 109°.Thermodynamically more stable isomer, converted to *trans*-isomer by u.v. irradiation.**trans-form**Dark-brown cryst. (Et₂O/pentane). Mp 82°.Thermodynamically less stable isomer, converted to *cis*-isomer on heating. Undergoes ring inversion in soln.Ahmad, M. *et al*, *J. Organomet. Chem.*, 1966, **6**, 1 (*synth, pmr*)Haines, R.J. *et al*, *J. Organomet. Chem.*, 1975, **85**, 89 (*ir*)Killops, S.D. *et al*, *J. Chem. Soc., Dalton Trans.*, 1978, 1260 (*ir*)**C₁₄H₁₆Fe₂O₂S₂[⊕]****Fe-01232****Dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)bis[μ-(methanethiolato)]diiron(1+), 9Cl***Dicarbonyldi-π-cyclopentadienylbis(μ-methanethiolato)diiron(1+), 8Cl*

[37685-00-0]



R = Me, n = 1

M 392.093 (ion)

cis and *trans* refer to the disposition of CO groups about the FeS₂Fe plane. Further isom. is possible at sulfur. Paramagnetic with a one-electron Fe-Fe bond.**cis-form***Tetrafluoroborate*: [11065-63-7].C₁₄H₁₆BF₄Fe₂O₂S₂ M 478.897

Dark-green cryst.

Hexafluorophosphate: [52669-13-3].C₁₄H₁₆F₆Fe₂O₂PS₂ M 537.057

Green solid.

Triiodide:C₁₄H₁₆Fe₂I₃O₂S₂ M 772.807Dark-green cryst. μ_{eff} = 1.70 BM.*Hexafluoroantimonate*: [12171-16-3].C₁₄H₁₆F₆Fe₂O₂S₂Sb M 627.834Dark blue-green cryst. (Me₂CO/C₆H₆).**trans-form***Hexafluorophosphate*: [52732-81-7]. Green solid.*Tetrafluoroborate*: [38855-91-3]. No phys. props. reported.King, R.B. *et al*, *Inorg. Chem.*, 1967, **6**, 469 (*synth, ir, uv*)Clare, M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1970, 1376 (*esr, mössbauer*)

Connelly, N.G. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 7472 (*synth, ir, struct*)

De Beer, J.A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 2341 (*synth, ir, esr, mössbauer*)

C₁₄H₁₆Fe₂O₂S₂^{⊕⊕} Fe-01233

Dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)bis[μ-(methanethiolato)]diiron(2+), 9Cl

As Dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)bis[μ-(methanethiolato)]diiron(1+), Fe-01232 with

R = Me, n = 2

M 392.093 (ion)

Diamagnetic.

cis-form

Bis(hexafluorophosphate): [38855-94-6].

C₁₄H₁₆F₁₂Fe₂O₂P₂S₂ M 682.022

Yellow solid (CH₂Cl₂/MeOH).

Bis(tetrafluoroborate): [38855-92-4].

C₁₄H₁₆B₂F₈Fe₂O₂S₂ M 565.700

Yellow solid (CH₂Cl₂/MeOH).

trans-form

Bis(hexafluorophosphate): [52520-21-5]. Yellow.

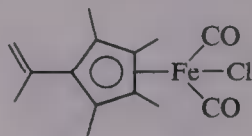
Bis(tetrafluoroborate): Yellow.

De Beer, J.A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 2341 (*synth, ir, mössbauer, pmr*)

C₁₄H₁₇ClFeO₂ Fe-01234

Dicarbonylchloro[(1,2,3,4,5-η)-1,2,3,4-tetramethyl-5-(1-methylethenyl)-2,4-cyclopentadien-1-yl]iron, 9Cl

Chlorodicarbonyl(1-isopropenyl-2,3,4,5-tetramethyl-π-cyclopentadienyl)iron. (η⁵-1-Isopropenyl-2,3,4,5-tetramethylcyclopentadienyl)iron dicarbonyl chloride [52409-68-4]



M 308.587

Red-orange cryst. (CH₂Cl₂/hexane). Mp 144-6°. Bp_{0.01} 90° subl.

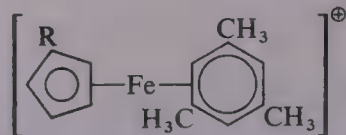
King, R.B. *et al*, *J. Organomet. Chem.*, 1974, **69**, 131 (*synth, ir, pmr*)

C₁₄H₁₇Fe[⊕] Fe-01235

(η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6-η)-1,3,5-trimethylbenzene]iron(1+), 9Cl

Cyclopentadienyl(mesitylene)iron

[32757-50-9]



R = H

M 241.135 (ion)

Tetrafluoroborate:

C₁₄H₁₇BF₄Fe M 327.939

Orange cryst. (Me₂CO/Et₂O). Mp 206-8°.

Hexafluorophosphate: [32757-45-2].

C₁₄H₁₇F₆FeP M 386.099

Yellow solid (Me₂CO/Et₂O). Mp 85° dec.

Tetraphenylborate:

C₃₈H₃₇BFe M 560.367

Yellow solid. Mp 257-8°.

Iodide:

C₁₄H₁₇FeI M 368.040

Ivory needles. Mp 220-2°.

Coffield, T.H. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 5826 (*synth*)

Nesmeyanov, A.N. *et al*, *Tetrahedron Lett.*, 1963, **25**, 1725

(*synth*)

Khand, W. *et al*, *J. Chem. Soc. (C)*, 1968, 2257 (*synth, pmr*)

Astruc, D. *et al*, *Bull. Soc. Chim. Fr.*, 1975, 2571 (*synth, pmr*)

Solodovnikov, S.P. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1981, **258**, 415 (*uv*)

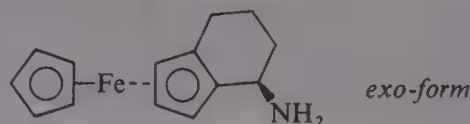
Steele, B.R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 529 (*cmr*)

C₁₄H₁₇FeN

Fe-01236

[(1,2,3,3a,7a-η)-4-Amino-4,5,6,7-tetrahydro-1H-inden-1-yl](η⁵-2,4-cyclopentadien-1-yl)iron, 9Cl

α-Amino[4](1,2)ferrocenophane



M 255.142

exo-form [37667-52-0]

Yellow oil. Has been partially resolved.

N-Ac:

C₁₆H₁₉FeNO M 297.179

Mp 155-155.5°.

endo-form [37668-58-9]

Oil. Has been partially resolved.

N-Ac: Mp 145°.

Falk, H. *et al*, *Monatsh. Chem.*, 1969, **100**, 254 (*synth*)

Allenmark, S. *et al*, *Tetrahedron Lett.*, 1972, 2885 (*synth, pmr*)

Allenmark, S. *et al*, *Acta Chem. Scand.*, 1973, **27**, 1816 (*synth*)

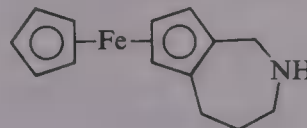
Allenmark, S. *et al*, *Chem. Scr.*, 1973, **4**, 69 (*synth, resolu*)

Mouroit, D. *et al*, *J. Organomet. Chem.*, 1976, **114**, 89 (*synth*)

C₁₄H₁₇FeN

Fe-01237

1H-Tetrahydro-2,3,4,5-ferroceno[c]azepine



M 255.142

(-)-form

[α]_D -55° (c, 2.5 in cyclohexane).

(±)-form

Mp 54-7°. Bp_{0.01} 125-30°.

Schlögl, K. *et al*, *Monatsh. Chem.*, 1964, **95**, 576 (*synth*)

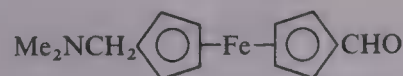
Schlögl, K., *Fortschr. Chem. Forsch.*, 1966, **6**, 479 (*rev*)

C₁₄H₁₇FeNO

Fe-01238

1'-[(Dimethylamino)methyl]ferrocenecarboxaldehyde, 8Cl

1-(Dimethylamino)methyl-1'-formylferrocene

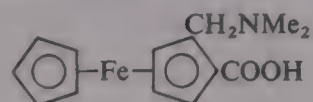


M 271.141

No phys. details recorded.

Schlögl, K. *et al*, *Tetrahedron Lett.*, 1968, 5885 (*synth*)

C₁₄H₁₇FeNO₂ **Fe-01239**
 2-[(Dimethylamino)methyl]ferrocenecarboxylic acid, 8Cl
 1-Carboxy-2-[(dimethylamino)methyl]ferrocene



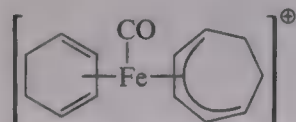
M 287.141

(±)-*form**Li salt:*C₁₄H₁₆FeLiNO₂ M 293.074

Yellow powder.

Methosulfate: Brown powder. Sol. H₂O.Schlögl, K. *et al*, *Monatsh. Chem.*, 1966, **97**, 1029; 1968, **99**, 1752 (*synth, use*)

C₁₄H₁₇FeO⁺ **Fe-01240**
 Carbonyl[(1,2,3,4,5-η)-2,4-cycloheptadien-1-yl][(1,2,3,4-η)-1,3-cyclohexadiene]iron(1+), 9Cl
 [53470-54-5]



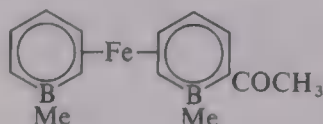
M 257.135 (ion)

Tetrafluoroborate: [53470-55-6].C₁₄H₁₇BF₄FeO M 343.938

Characterised spectroscopically.

Ashley-Smith, J. *et al*, *J. Organomet. Chem.*, 1974, **82**, 257 (*synth, ir*)Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 421 (*props*)

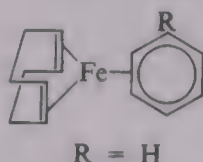
C₁₄H₁₈B₂FeO **Fe-01241**
 [(1,2,3,4,5,6-η)-2-Acetyl-1-methylboratabenzene][(1,2,3,4,5,6-η)-1-methylboratabenzene]iron, 9Cl
 [57692-67-8]



M 279.763

Ashe, A.J. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 6865 (*synth, pmr, ms, ir*)

C₁₄H₁₈Fe **Fe-01242**
 (η⁶-Benzene)(1,2,5,6-η)-1,5-cyclooctadiene]iron
 [82798-50-3]

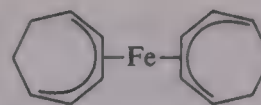


R = H

M 242.143

Bright-orange cryst. (Et₂O). Thermodynamically unstable; v. sensitive to chlorinated solvs.Ittel, S.D. *et al*, *Organometallics*, 1982, **1**, 1432 (*synth, pmr*)

C₁₄H₁₈Fe **Fe-01243**
 Bis[(1,2,3,4,5-η)-2,4-cycloheptadien-1-yl]iron, 9Cl
 [41337-53-5]

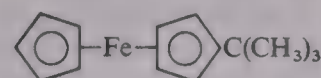


M 242.143

Red-brown cryst. (hexane). Mp 90-2°.

Müller, J. *et al*, *Chem. Ber.*, 1972, **105**, 3346 (*synth, pmr, ms*)

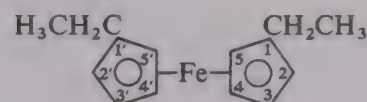
C₁₄H₁₈Fe **Fe-01244**
tert-Butylferrocene
 (1,1'-Dimethylethyl)ferrocene, 9Cl. 2-Ferrocenyl-2-methylpropane
 [1316-98-9]



M 242.143

Orange liq. Bp_{4.0} 103-5°.Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1957, **117**, 92 (*synth*)Neuse, E.W. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 1850 (*synth*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1972, **39**, 173 (*pmr*)Koridze, A.A. *et al*, *J. Organomet. Chem.*, 1977, **136**, 57 (*cmr*)

C₁₄H₁₈Fe **Fe-01245**
 1,1'-Diethylferrocene, 9Cl
 Bis(ethylcyclopentadienyl)iron
 [1273-97-8]



M 242.143

Orange oil. Mp -35°. Bp_{5.5} 123-4°, Bp_{0.15} 87-9°.Vogel, M. *et al*, *J. Org. Chem.*, 1957, **22**, 1016 (*synth*)Schlögl, K. *et al*, *Monatsh. Chem.*, 1961, **92**, 921 (*synth*)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1974, **219**, 361 (*uv*)Köhler, F.H. *et al*, *J. Organomet. Chem.*, 1975, **96**, 391 (*cmr*)Shul'pin, G.B., *Zh. Obshch. Khim.*, 1981, **51**, 2152 (*synth*)

C₁₄H₁₈Fe **Fe-01246**
 1,2-Diethylferrocene, 9Cl
 (η⁵-Cyclopentadienyl)(η⁵-1,2-diethylcyclopentadienyl)-iron
 [33041-04-2]

M 242.143

Orange liq. Bp 287°. n_D²⁵ 1.5765.Bublitz, D.E. *et al*, *Can. J. Chem.*, 1964, **42**, 2381 (*synth*)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1974, **219**, 361 (*uv*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **96**, 279 (*pmr*)

C₁₄H₁₈Fe **Fe-01247**
 1,3-Diethylferrocene, 9Cl
 [33041-05-3]

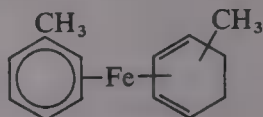
M 242.143

Orange oil. Bp₁₅ 125-40°.Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1956, **111**, 605; 1957, **114**, 92, 800; 1959, **125**, 1037 (synth, ir)Bublitz, D.E., *J. Organomet. Chem.*, 1969, **16**, 149 (synth)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1974, **219**, 361 (uv)C₁₄H₁₈Fe

Fe-01248

[(1,2,3,4,5,6- η)-Methylbenzene][(1,2,3,4- η)-methyl-1,3-cyclohexadiene]iron, 10Cl

[79080-64-1]



M 242.143

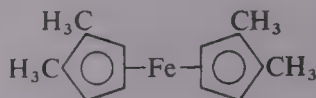
Mixt. of isomers. Yellow air-sensitive solid. Sublimes.

Beard, L.K. *et al*, *J. Organomet. Chem.*, 1981, **209**, 245 (synth, ir, pmr)C₁₄H₁₈Fe

Fe-01249

1,1',2,2'-Tetramethylferrocene, 9Cl

[59568-27-3]



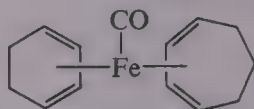
M 242.143

Schmitt, G. *et al*, *CA*, 1976, **85**, 21587 (synth)C₁₄H₁₈FeO

Fe-01250

Carbonyl[(1,2,3,4- η)-1,3-cycloheptadiene][(1,2,3,4- η)-1,3-cyclohexadiene]iron, 9Cl

[53470-67-0]



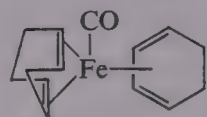
M 258.143

Red solid by subl. at 60° *in vacuo*.Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 421 (synth, ir, pmr, cmr)C₁₄H₁₈FeO

Fe-01251

Carbonyl[(1,2,4,5- η)-1,4-cycloheptadiene][(1,2,3,4- η)-1,3-cyclohexadiene]iron, 9Cl

[53470-56-7]



M 258.143

Orange cryst.

Ashley Smith, J. *et al*, *J. Organomet. Chem.*, 1974, **82**, 257.Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 421 (synth, ir, pmr, cmr)C₁₄H₁₈FeOP₂

Fe-01252

[(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl][(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-2-yl]ethanonato]iron, 10Cl
2-Acetyl-3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene

[73153-30-7]

As [(1,2,3,4,5-

 η)-3,4-Dimethyl-1*H*-phosphole-2-carboxaldehydato][(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-1-yl]iron, Fe-01102 withR = COCH₃

M 320.090

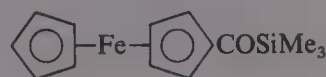
Cryst. (C₆H₆). Mp 71°.de Lauzon, G. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 994 (synth, ir, pmr, nmr)C₁₄H₁₈FeOSi

Fe-01253

[(Trimethylsilyl)carbonyl]ferrocene, 9Cl

Ferrocenyl (trimethylsilyl)ketone

[54762-70-8]



M 286.228

Dark-red cryst. (hexane). Mp 95-6°.

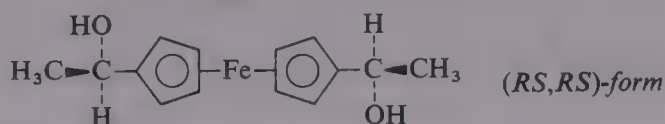
Reuter, M.J. *et al*, *J. Organomet. Chem.*, 1974, **82**, 201 (synth, ir, pmr, ms)C₁₄H₁₈FeO₂

Fe-01254

1,1'-Bis(1-hydroxyethyl)ferrocene, 9Cl

 α,α' -Dimethyl-1,1'-ferrocenedimethanol

[12289-46-2]



M 274.142

(RS,RS)-form

rac-form

Orange-yellow needles (hexane). Mp 86-86.5°.

(RS,SR)-form

meso-form

Orange-yellow needles (hexane). Mp 99.5-100.5°.

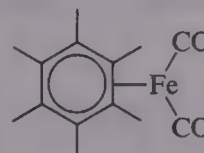
Interconverts with racemic form in acid soln.

Graham, P.J. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 3416 (synth)Mashburn, T.A. *et al*, *J. Org. Chem.*, 1961, **26**, 1671 (synth)Yamakawa, K. *et al*, *J. Organomet. Chem.*, 1973, **52**, 407 (synth, isom, pmr, ir)C₁₄H₁₈FeO₂

Fe-01255

Dicarbonyl[(1,2,3,4,5,6- η)-hexamethylbenzene]iron, 10Cl

[63453-55-4]



M 274.142

Orange cryst. Bp 40° subl. *in vacuo*.Weber, S.R. *et al*, *J. Organomet. Chem.*, 1977, **127**, 45 (synth, pmr, ir, ms)C₁₄H₁₈FeO₃

Fe-01256

Acetyldicarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, 9Cl(η⁵-Pentamethylcyclopentadienyl)acetyldicarbonyliron

[34808-35-0]

As Bromodicarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, Fe-00953 with

X = Ac

M 290.141

Yellow cryst. (pentane). Mp 72-3°. Bp_{0.1} 60° subl.

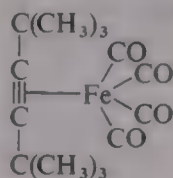
King, R.B. *et al*, *J. Am. Chem. Soc.*, 1971, **93**, 4950; 1972, **94**, 3773 (*synth*, *ir*, *ms*, *pmr*)

C₁₄H₁₈FeO₄

Fe-01257

Tetracarbonyl[(3,4- η)-2,2,5,5-tetramethyl-3-hexyne]iron

Tetracarbonyl(*di*-*tert*-butylacetylene)iron



M 306.141

Yellow cryst. (pentane).

Cotton, F.A. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 1774 (*synth*)

C₁₄H₁₈Fe₂O₈Si₂

Fe-01258

Octacarbonylbis(trimethylsilyl)diiron, 10Cl

[79483-30-0]

Me₃Si—Fe(CO)₄—Fe(CO)₄—SiMe₃

M 482.156

Bright-yellow labile substance. Bp_{0.0004} 25° subl.

Blakeney, A.J. *et al*, *Inorg. Chem.*, 1981, **20**, 4415 (*synth*, *ir*, *cmr*, *pmr*)

C₁₄H₁₈Fe₂O₈Sn₂

Fe-01259

Octacarbonylbis(trimethylstannyl)diiron, 10Cl

[65209-14-5]

Me₃Sn—Fe(CO)₄—Fe(CO)₄—SnMe₃

M 663.365

Mixed isomers. Yellow-green solid.

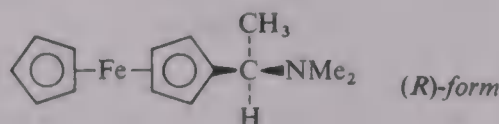
Behrens, H. *et al*, *Z. Naturforsch.*, B, 1977, **32**, 1114 (*synth*, *ir*)

C₁₄H₁₉FeN

Fe-01260

[1-(Dimethylamino)ethyl]ferrocene, 8Cl

N,N, α -Trimethylferrocenemethylamine, 8Cl. α -Ferrocenylethyl dimethylamine. N,N-Dimethyl-1-ferrocenylethylamine



M 257.158

(*R*)-form [31886-58-5]

Amber oil. $[\alpha]_D^{25} +14.1^\circ$ (c, 1 in EtOH).

Tartrate: Cryst. (Me₂CO aq.). $[\alpha]_D^{25} +14.0^\circ$ (c, 1 in EtOH).

(*S*)-form [31886-57-4]

Liq. Bp_{0.7} 120-1°. $[\alpha]_D^{25} -14.1^\circ$ (c, 1.6 in EtOH).

($\pm$)-form [31904-34-4]

Clear-amber oil. Bp_{0.65} 111° part. dec. n_D^{25} 1.5883.

Picrate: [39699-90-6]. Red plates (EtOH). Mp 136-7°.

Hauser, C.R. *et al*, *J. Org. Chem.*, 1957, **22**, 906 (*synth*)

Marquarding, D. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 5389 (*resoln*, *synth*)

Battelle, L.F. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 482 (*abs config*)

Hayashi, T. *et al*, *Tetrahedron Lett.*, 1974, 4405.

Marquarding, D. *et al*, *J. Chem. Res. (S)*, 1977, 82 (*synth*, *abs config*)

Zagorevskii, D.V. *et al*, *J. Organomet. Chem.*, 1980, **202**, 201 (*ms*)

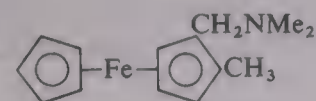
Herrman, R. *et al*, *Tetrahedron*, 1981, **37**, 1001 (*synth*)

C₁₄H₁₉FeN

Fe-01261

1-[(Dimethylamino)methyl]-2-methylferrocene, 9Cl

[12111-28-3]



M 257.158

($\pm$)-form

Amber liq. Bp_{0.2} 84°.

B, MeI:

C₁₅H₂₂FeIN M 399.097

Mp 208-9°.

Pauson, P.L. *et al*, *J. Chem. Soc. (C)*, 1967, 1851 (*synth*, *pmr*)

Slocum, D.W. *et al*, *J. Org. Chem.*, 1973, **38**, 1677 (*synth*, *pmr*, *ir*)

C₁₄H₁₉FeN

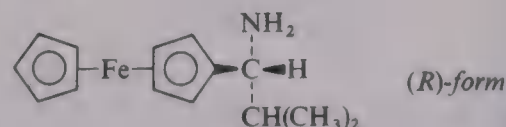
Fe-01262

1-Ferrocenyl-2-methyl-1-propylamine

1-Amino-2-methylpropylferrocene, 10Cl.

α -Ferrocenylisobutylamine

[53992-88-4]



M 257.158

Highly effective chiral template in asymmetrically induced synth.

(*R*)-form [54053-41-7]

Mp 17-20°. Bp_{0.4} 101.5°. $[\alpha]_D^{20} -79.8^\circ$ (c, 1 in C₆H₆).

(*S*)-form [54053-42-8]

$[\alpha]_D^{20} +79.5^\circ$ (c, 1 in C₆H₆).

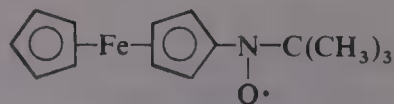
Marquarding, D. *et al*, *J. Chem. Res. (S)*, 1977, 82; *J. Chem. Res. (M)*, 915 (*synth*)

Eberle, G. *et al*, *Tetrahedron*, 1978, **34**, 977 (*synth*, *resoln*, *ir*, *pmr*)

Herrmann, R. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1978, **17**, 689 (*synth*)

C₁₄H₁₉FeNO*tert*-Butyl ferrocenyl nitroxide

Ferrocenyl(1,1-dimethylethyl)nitroxide

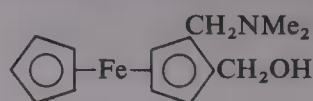


M 273.157

Stable free radical. Deep-red cryst. Stable for months in solid state or for weeks in soln.

Forrester, A.R. *et al*, *J. Chem. Soc., Chem. Commun.*, 1969, 698 (synth, ir, esr, cryst struct)

Fe-01263

Pierpont, C.G. *et al*, *Inorg. Chem.*, 1972, **11**, 828 (struct)C₁₄H₁₉FeNO1-[(Dimethylamino)methyl]-2-(hydroxymethyl)ferrocene, 9Cl
[12086-33-8]

M 273.157

(±)-form

Yellow plates (pet. ether). Mp 45-6°. Bp_{0.5} 125-30°.

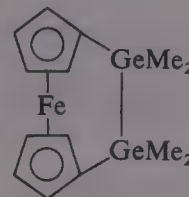
B, MeI:

C₁₆H₂₂FeINO M 427.107Light-yellow cryst. (MeCN/Et₂O). Dec. >203°.Tirouflet, J. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1966, **262**, 1889 (synth)Marr, G. *et al*, *J. Organomet. Chem.*, 1969, **16**, 141 (synth, pmr)Dixneuf, P. *et al*, *Bull. Soc. Chim. Fr.*, 1972, 2838 (synth)

Fe-01264

C₁₄H₂₀FeGe₂

Fe-01267

1,1'-(1,1,2,2-Tetramethyl-1,2-digermanediyl)ferrocene, 9Cl
1,1,2,2-Tetramethyl-1,2-digermana[2]ferrocenophane.
1,1'-(Tetramethyldigermanylene)ferrocene
[38670-86-9]

M 389.339

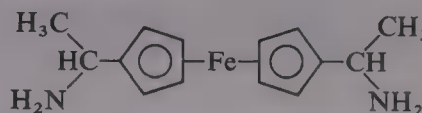
Mp 138.5-139.5°.

Kumada, M. *et al*, *J. Organomet. Chem.*, 1972, **43**, 293 (synth, pmr)C₁₄H₂₀FeN₂

Fe-01268

1,1'-Bis(1-aminoethyl)ferrocene

1,1'-(1-Aminoethyl)diylferrocene. α,α'-Dimethyl-1,1'-ferrocenebisethanamine



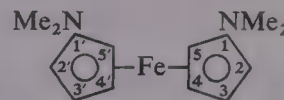
M 272.172

B, 2HCl: Mp 180° dec.

Ger. Pat., 1 098 713, (1959); CA, **55**, 17648B.P., 845 499, (1960); CA, **55**, 9427C₁₄H₂₀FeN₂

Fe-01269

1,1'-Bis(N,N-dimethylamino)ferrocene, 10Cl

Bis(N,N-dimethylamino-π-cyclopentadienyl)iron
[75830-49-8]

M 272.172

Dark-orange cryst. Mp 63-5°.

Bernheim, M. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1980, **19**, 1010 (synth, pmr)C₁₄H₂₀FeOP₂

Fe-01270

[(1,2,3,4,5-η)-3,4-Dimethyl-1H-phosphol-1-yl][(1,2,3,4,5-η)-α,3,4-trimethyl-1H-phosphole-2-methanolato]iron, 10Cl
2-α-Hydroxyethyl-3,3',4,4'-tetramethyl-1,1'-diphosphoferrocene

As [(1,2,3,4,5-

η)-3,4-Dimethyl-1H-phosphole-2-carboxaldehydato][(1,2,3,4,5-η)-3,4-dimethyl-1H-phosphol-1-yl]iron, Fe-01102 with

R = -CH(OH)CH₃

M 322.106

2 Diastereoisomers known.

Low-melting-form [73176-97-3]

Cryst. (MeOH). Mp 70-2°.

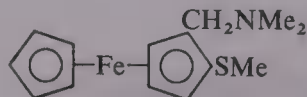
High-melting-form [73153-35-2]

Cryst. (MeOH). Mp 100-5°. Eluted first on chromatography.

De Lauzon, G. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 994 (synth, ir, pmr, nmr)C₁₄H₁₉FeNS

Fe-01265

1-(Dimethylamino)methyl-2-methylthioferrocene



M 289.218

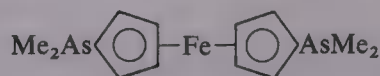
Brown-orange rhomboids (EtOH). Mp 81.5°.

Picrate: Orange needles (EtOH). Mp 150-1° dec.

Knox, G.R. *et al*, *Chem. Ind. (London)*, 1959, 1046 (pmr)Knox, G.R. *et al*, *J. Chem. Soc. (C)*, 1967, 1842 (synth)C₁₄H₂₀As₂Fe

Fe-01266

1,1'-Bis(dimethylarsino)ferrocene, 9Cl



M 394.002

Dark-red air-sensitive oil. Mp 10.5°. Bp_{0.6} 137-40°.

B, MeI:

C₁₅H₂₃As₂FeI M 535.941

Fine-yellow plates (butanol/heptane). Mp 189-190.5° dec.

B, 2MeI:

C₁₆H₂₆As₂FeI₂ M 677.881

Golden needles (MeOH). Mp 252.5-254° dec.

Bissulfide:

C₁₄H₂₀As₂FeS₂ M 458.122

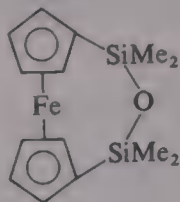
Golden flakes (butanol). Mp 231.5°.

Bishop, J.J. *et al*, *J. Organomet. Chem.*, 1971, **27**, 241 (synth, pmr, ir, ms)

C₁₄H₂₀FeOSi₂

Fe-01271

1,1'-(1,1,3,3-Tetramethyl-1,3-disiloxanediyl)ferrocene, 9Cl
1,1,3,3-Tetramethyl-1,3-disila-2-oxa[3]ferrocenophane. 1,3-Bis(1,1'-ferrocenylene)tetramethyldisiloxane
 [1272-10-2]



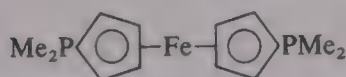
M 316.329

Orange cryst. (heptane). Mp 87-8°.

Schaaf, R.L. *et al*, *J. Org. Chem.*, 1961, **26**, 1790 (*synth*)Kan, P.T. *et al*, *J. Org. Chem.*, 1961, **26**, 4038 (*synth*)Kondo, T. *et al*, *J. Organomet. Chem.*, 1972, **43**, 307, 315 (*synth*)C₁₄H₂₀FeP₂

Fe-01272

1,1'-Bis(dimethylphosphino)ferrocene, 9Cl
 [32680-64-1]



M 306.107

Dark-red air-sensitive oil. Bp_{0.05} 104-8°.Bishop, J.J. *et al*, *J. Organomet. Chem.*, 1971, **27**, 241 (*synth*, *pmr*, *ir*)C₁₄H₂₀FeP₂

Fe-01273

[(1,2,3,4,5-η)-3,4-Dimethyl-1*H*-phosphol-1-yl][(1,2,3,4,5-η)-2-ethyl-3,4-dimethyl-1*H*-phosphol-1-yl]iron, 10Cl
2-Ethyl-3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene
 [73153-37-4]

As [(1,2,3,4,5-η)-3,4-Dimethyl-1*H*-phosphole-2-carboxaldehydato][(1,2,3,4,5-η)-3,4-dimethyl-1*H*-phosphol-1-yl]iron, Fe-01102 with



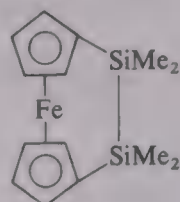
M 306.107

Orange oil.

De Lauzon, G. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 994 (*synth*, *pmr*)C₁₄H₂₀FeSi₂

Fe-01274

1,1'-(1,1,2,2-Tetramethyl-1,2-disilanediy)ferrocene, 9Cl
1,1,2,2-Tetramethyl-1,2-disila[2]ferrocenophane
 [38670-82-5]



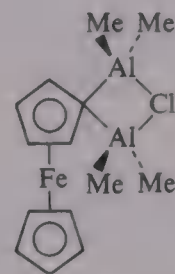
M 300.330

Mp 132-4°.

Kumada, M. *et al*, *J. Organomet. Chem.*, 1972, **43**, 293 (*synth*, *pmr*)C₁₄H₂₁Al₂ClFe

Fe-01275

μ-Chloro-μ-ferrocenyldenetetramethyldialuminum, 10Cl
 [68200-85-1]



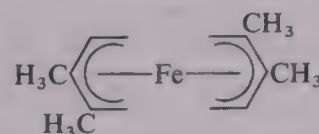
M 334.583

Stereochemically nonrigid. Red air-sensitive cryst. Mp 108-9°.

Atwood, J.L. *et al*, *Aust. J. Chem.*, 1973, **26**, 2297 (*synth*, *pmr*, *ms*)Rogers, R.D. *et al*, *Inorg. Chem.*, 1979, **18**, 279 (*synth*, *pmr*, *struct*)C₁₄H₂₂Fe

Fe-01276

Bis[(1,2,3,4,5-η)-2,3-dimethyl-2,4-pentadienyl]iron, 10Cl
 [74910-64-8]



M 246.175

Obtained as a mixt. of isomers. Orange cryst. Sol. hydrocarbons. Sublimes.

Wilson, D.E. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 5928 (*synth*)C₁₄H₂₂Fe

Fe-01277

Bis[(1,2,3,4,5-η)-2,4-dimethyl-2,4-pentadienyl]iron, 10Cl
 [74920-98-2]
 As Bis(η⁵-2,4-pentadienyl)iron, Fe-00629 with



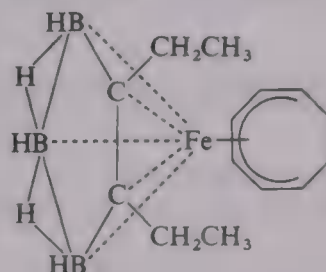
M 246.175

Air-stable orange-red cryst. Sol. hydrocarbons. Sublimes.

Wilson, D.R. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 5928 (*synth*, *struct*, *pmr*, *ir*, *ms*)C₁₄H₂₅B₃Fe

Fe-01278

[(1,2,3,4,5,6-η)-1,3,5-Cyclooctatriene][(1,2,3,4,5-η)-pentahydro-1,2-diethyl-1,2-dicarbapentaborato(2-)]iron
 [84582-97-8]



M 281.629

Red oil.

Swisher, R. *et al*, *Organometallics*, 1983, **2**, 506 (*synth*, *pmr*, *cmr*, *nmr*, *ms*)

C₁₄H₂₉B₉Fe **Fe-01279**

[(1,2,3,4,5,6- η)-Hexamethylbenzene][(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]iron
3,1,2-(η^6 -Hexamethylbenzene)-FeC₂B₉H₁₁
[82704-19-5]

As [(1,2,3,4,5,6- η)-1,3,5-Trimethylbenzene][(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]iron, Fe-00790 with



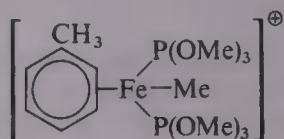
M 350.520

Reddish-orange cryst. (C₆H₆/heptane). Mp 299-302° dec.

Hanusa, T.P. *et al*, *Polyhedron*, 1981, **1**, 77 (*synth*, *pmr*, *ir*, *nmr*)

C₁₄H₂₉FeO₆P₂[⊖] **Fe-01280**

Methyl[(1,2,3,4,5,6- η)-methylbenzene]bis(trimethyl phosphite-P)iron(1+), 10Cl
Methyl(η^6 -toluene)bis(trimethyl phosphite)iron(1+)



M 411.174 (ion)

Tetrafluoroborate: [71497-14-8].

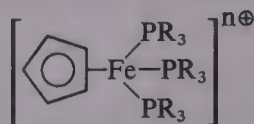
C₁₄H₂₉BF₄FeO₆P₂ M 497.978

Characterised spectroscopically.

Ittel, S.D. *et al*, *J. Organomet. Chem.*, 1979, **172**, C47 (*synth*, *pmr*)

C₁₄H₃₂FeO₉P₃[⊖] **Fe-01281**

(η^5 -2,4-Cyclopentadien-1-yl)tris(trimethyl phosphite-P)-iron(1+), 10Cl



M 493.170 (ion)

Hexafluorophosphate: [79105-28-5].

C₁₄H₃₂F₆FeO₉P₃ M 638.134

Light-yellow powder (CH₂Cl₂/hexane). Mp 265-8° dec.

Gill, T.P. *et al*, *J. Organomet. Chem.*, 1981, **216**, 65 (*synth*, *pmr*)

C₁₄H₃₂FeP₃[⊖] **Fe-01282**

(η^5 -2,4-Cyclopentadien-1-yl)tris(trimethylphosphine)iron-(1+), 10Cl

As (η^5 -2,4-Cyclopentadien-1-yl)tris(trimethyl phosphite-P)iron(1+), Fe-01281 with



M 349.175 (ion)

Bromide: [78192-39-9].

C₁₄H₃₂BrFeP₃ M 429.079

Yellow cryst. (CH₂Cl₂/pet. ether). Mp >250°.

Hexafluorophosphate: [78192-41-3].

C₁₄H₃₂F₆FeP₃ M 494.139

Yellow cryst. (CH₂Cl₂/Et₂O). Mp 181° dec.

Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1981, **206**, 77 (*synth*, *pmr*)

C₁₄H₃₂FeP₃[⊖] **Fe-01283**

(η^5 -2,4-Cyclopentadien-1-yl)tris(trimethylphosphine)iron-(2+), 10Cl

As (η^5 -2,4-Cyclopentadien-1-yl)tris(trimethyl phosphite-P)iron(1+), Fe-01281 with



M 349.175 (ion)

Paramagnetic, $\mu_{\text{eff}} = 2.12$ BM.

Bis(hexafluorophosphate): [78192-71-9].

C₁₄H₃₂F₁₂FeP₅ M 639.103

Orange cryst. (MeCN/Et₂O). Mp 180° dec.

Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1981, **206**, 77 (*synth*)

C₁₅Fe₅O₁₄[⊖] **Fe-01284**

(Carbon)tetradecacarbonylpentaferrate(2-), 9Cl
Tetra- μ -carbonyldecacarbonyl- μ_4 -methanetetraylpentaferrate(2-), 9Cl
[56259-90-6]



M 683.392 (ion)

Struct. not determined.

Bis(tetramethylammonium) salt: [37216-38-9].

C₂₃H₂₄Fe₅N₂O₁₄ M 831.683

Dark red-violet cryst.

Bis(tetraethylammonium) salt: [56329-28-3].

C₃₁H₄₀Fe₅N₂O₁₄ M 943.897

Dark-brown cryst. (Me₂CO/Et₂O).

Cooke, C.G. *et al*, *J. Organomet. Chem.*, 1975, **88**, 231 (*synth*, *ir*)

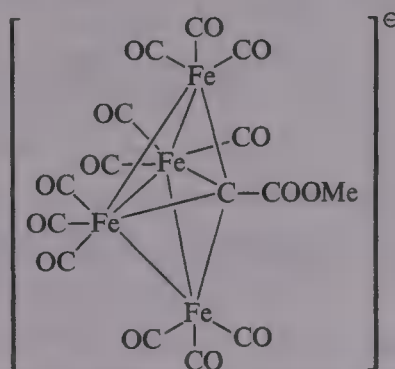
Lopatin, V.E. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1981, 1925 (*synth*)

Longoni, G. *et al*, *Philos. Trans. R. Soc. London Ser. A*, 1982, **308**, 47; *CA*, **98**, 136531 (*synth*)

Sosinsky, B.A. *et al*, *Inorg. Chem.*, 1982, **21**, 348 (*mössbauer*)

C₁₅H₃Fe₄O₁₄[⊖] **Fe-01285**

Dodecacarbonyl[μ_4 -(methoxyoxoethylidyne)]tetraferate(1-), 10Cl



M 630.568 (ion)

Tetraethylammonium salt: [72872-04-9].

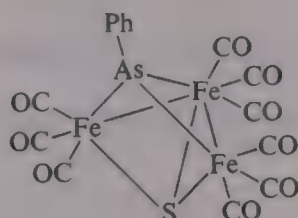
C₂₃H₂₃Fe₄NO₁₄ M 760.821

Black prisms (CH₂Cl₂/butanol).

Bradley, J.S. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 7417 (*synth*, *ir*, *pmr*, *cmr*, *struct*)

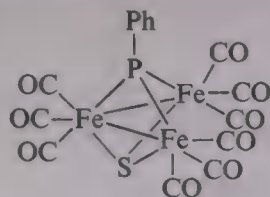
Bradley, J.S. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 4968.
Bradley, J.S. *et al*, *Organometallics*, 1982, **1**, 1634 (*synth, ir*)

C₁₅H₅AsFe₃O₉S **Fe-01286**
Nonacarbonyl[μ₃-(phenylarsinidene)]-μ₃-thioxotriiron
[83147-01-7]



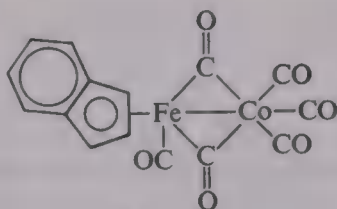
M 603.722
Red cryst. (pentane). Mp 78°.
Winter, A. *et al*, *J. Organomet. Chem.*, 1982, **234**, 337 (*synth, pmr, ir, ms, struct*)

C₁₅H₅Fe₃O₉PS **Fe-01287**
Nonacarbonyl(μ₃-phenylphosphido)(μ₃-thio)triiron
(μ₃-Phenylphosphido)(μ₃-thio)tris(tricarbonyliron)
[82614-06-0]



M 559.774
Dark-red nuggets (pentane). Mp 93-94.5°.
Seyferth, D. *et al*, *Organometallics*, 1982, **1**, 1294 (*synth, ir, pmr, nmr, ms*)
Winter, A. *et al*, *J. Organomet. Chem.*, 1982, **234**, 337 (*synth, ir, pmr, nmr, struct*)

C₁₅H₇CoFeO₆ **Fe-01288**
Di-μ-carbonylcarbonyl[(1,2,3,3a,7a-η)-1H-inden-1-yl](tricarbonylcobalt)iron, 9Cl
Di-μ-carbonylcarbonyl-π-indenyl(tricarbonylcobaltio)iron, 8Cl. Hexacarbonyl-π-indenylcobaltiron
[34779-05-0]



M 397.997
Brown cryst. (pentane). Mp 74-6°.
Manning, A.R., *J. Chem. Soc. (A)*, 1971, 2321 (*synth, ir*)
Stephens, F.S., *J. Chem. Soc., Dalton Trans.*, 1974, 13 (*struct*)

C₁₅H₇Fe₃O₉P **Fe-01289**
Nonacarbonyldi-μ-hydro[μ₃-(phenylphosphinidene)]triiron,
10Cl
[74595-81-7]
As Nonacarbonyldi-μ-hydro-μ₃-thioxotriiron, Fe-00342
with

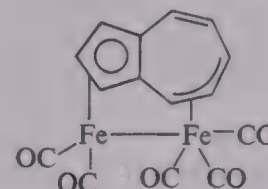
X = PPh

M 529.730
Dark-red cryst. Mp 96°. Bp 85° *in vacuo* subl.
Huttner, G. *et al*, *J. Organomet. Chem.*, 1980, **191**, 161 (*synth, struct, pmr, nmr, ir*)

C₁₅H₈F₅FeNO₂ **Fe-01290**
Dicarbonyl(methyl isocyanide)[5-(pentafluorophenyl)-1,3-cyclopentadiene]iron, 8Cl
Dicarbonyl[1-[(2,3,4,5-η)-2,4-cyclopentadien-1-yl](2,3,4,5,6-pentafluorobenzene)](isocyanomethane)iron
As Tricarbonyl[(5-pentafluorophenyl)-1,3-cyclopentadiene]iron, Fe-01138 with
L = MeNC-

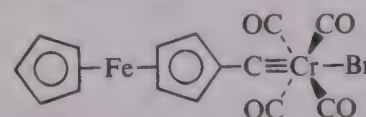
M 385.073
exo-form
Pale-yellow needles (CHCl₃/hexane). Mp 105-6°.
Treichel, P.M. *et al*, *Inorg. Chem.*, 1969, **8**, 2563 (*synth, pmr, ir*)

C₁₅H₈Fe₂O₅ **Fe-01291**
[μ-[(1,2,3,3a,8a-η:4,5,6-η)Azulene]]pentacarbonyldiiron, 9Cl
[12087-76-2]



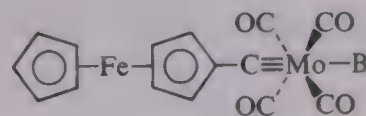
M 379.919
Dark-red cryst. (pet. ether). Mp >100° dec.
Burton, R. *et al*, *J. Chem. Soc.*, 1960, 4290 (*synth, pmr, ir, uv*)
Churchill, M.R. *et al*, *Inorg. Chem.*, 1967, **6**, 190 (*struct*)
Cotton, F.A. *et al*, *Inorg. Chem.*, 1977, **16**, 89 (*cmr*)

C₁₅H₉BrCrFeO₄ **Fe-01292**
Bromotetracarbonyl(ferrocenylmethylidyne)chromium, 10Cl



M 440.981
trans-form [68830-17-1]
Red microcryst. (MeOH). Mp >70° dec. Cl and I analogues also known.
Fischer, E.O. *et al*, *Chem. Ber.*, 1978, **111**, 3530 (*synth, struct, ir, pmr, cmr*)
Fischer, E.O. *et al*, *J. Organomet. Chem.*, 1980, **191**, 261 (*ir, pmr, cmr*)

C₁₅H₉BrFeMoO₄ **Fe-01293**
Bromotetracarbonyl(ferrocenylmethylidyne)molybdenum,
10Cl



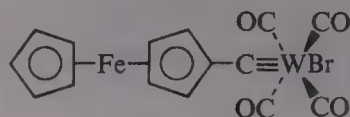
M 484.925

trans-form [68830-12-6]

Red microcryst. Mp >40° dec.

Fischer, E.O. *et al*, *Chem. Ber.*, 1978, **111**, 3530 (*synth*, *pmr*, *cmr*, *ir*, *polarog*)**C₁₅H₉BrFeO₄W****Fe-01294****Bromotetracarbonyl(ferroceniumylmethylidyne)tungsten, 9Cl***Bromotetracarbonyl(ferrocenylmethylidyne)tungsten*

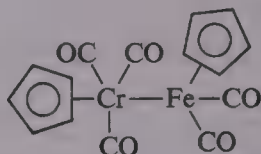
[68830-04-6]



M 572.835

trans-form [65230-41-3]Raspberry-red cryst. Stable at r.t. in the solid state for several hours even on exp. to air. In soln. dec. slowly >–10°. Spar. sol. hexane, sol. CH₂Cl₂, Me₂CO, other polar solvs. Mp >70° dec. Diamagnetic.Fischer, E.O. *et al*, *Chem. Ber.*, 1977, **110**, 3397; 1978, **111**, 3530 (*synth*, *ir*, *pmr*)**C₁₅H₁₀CrFeO₅****Fe-01295****Tricarbonyl(η⁵-2,4-cyclopentadien-1-yl)[dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron]chromium, 10Cl***Pentacarbonylbis(η⁵-2,4-cyclopentadien-1-yl)chromium-iron*

[75339-31-0]

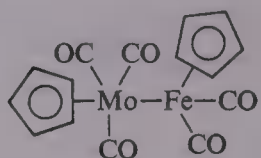


M 378.084

Green-black solid. Mp 107°.

Madach, T. *et al*, *Chem. Ber.*, 1980, **113**, 2675 (*synth*, *ir*, *pmr*, *uv*)**C₁₅H₁₀FeMoO₅****Fe-01296****Tricarbonyl(η⁵-2,4-cyclopentadien-1-yl)[dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron]molybdenum, 10Cl***Tricarbonyl-π-cyclopentadienyl(dicarbonyl-π-cyclopentadienylferrio)molybdenum, 8Cl. Pentacarbonylbis(η⁵-2,4-cyclopentadien-1-yl)ironmolybdenum*

[12130-13-1]



M 422.028

Red-violet cryst. (pentane or C₆H₆). Mp 209° (205°).King, R.B. *et al*, *Chem. Ind. (London)*, 1961, 747 (*synth*, *ir*)
Abrahamson, H.B. *et al*, *Inorg. Chem.*, 1978, **17**, 1003 (*uv*, *ir*, *synth*, *pmr*)Madach, T. *et al*, *Chem. Ber.*, 1980, **113**, 2675 (*pmr*, *ir*)**C₁₅H₁₀FeO₂****Fe-01297****Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(phenylethynyl)iron, 9Cl**

[12308-30-4]

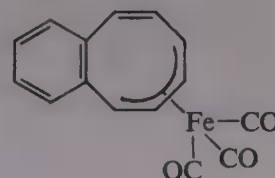
As Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(difluorophosphinothioyl-*P*)iron, Fe-00189 with

L = –C≡CPh

M 278.090

Yellow cryst. (Et₂O/pet. ether). Mp 120-2° dec. Bp_{0.1} 130-40° subl.Bruce, M.I. *et al*, *J. Chem. Soc. (A)*, 1968, 356 (*synth*, *ir*, *ms*, *pmr*)Green, M.L.H. *et al*, *J. Organomet. Chem.*, 1968, **12**, 404 (*synth*, *ir*, *pmr*)**C₁₅H₁₀FeO₃****Fe-01298****[(5,6,7,8-η)-Benzocyclooctatetraene]tricarbonyliron, 9Cl***(Benzocyclooctene)tricarbonyliron, 8Cl*

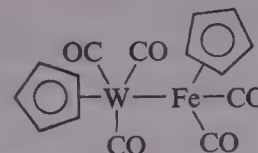
[41357-53-3]



M 294.089

Fluxional molecule in soln. Yellow-orange prisms (pet. ether/Et₂O). Mp 77-9°.Elix, J.A. *et al*, *J. Am. Chem. Soc.*, 1969, **91**, 4734 (*synth*, *ir*, *uv*, *pmr*, *ms*)Whitlock, H.W. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 8594 (*pmr*)**C₁₅H₁₀FeO₅W****Fe-01299****Tricarbonyl(η⁵-2,4-cyclopentdien-1-yl)[dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron]tungsten, 10Cl***Pentacarbonylbis(η⁵-2,4-cyclopentadien-1-yl)iron-tungsten*

[64041-01-6]



M 509.938

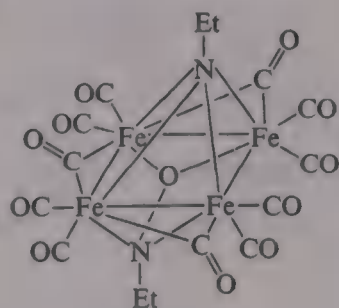
Red cryst. (CH₂Cl₂/hexane). Mp 220° dec. (softens ca. 150°).Pandey, V.N., *Inorg. Chim. Acta*, 1977, **23**, L26 (*synth*, *ir*)Abrahamson, H.B. *et al*, *Inorg. Chem.*, 1978, **17**, 1003 (*synth*, *ir*, *pmr*, *uv*)Madach, T. *et al*, *Chem. Ber.*, 1980, **113**, 2675 (*ir*, *pmr*)

The first digit of the Entry number defines the Supplement in which the Entry is found. 0 indicates the Main Work

C₁₅H₁₀Fe₄N₂O₁₂

Fe-01300

Tri- μ -carbonyloctacarbonyl[μ_4 -[ethanaminato(2-)]][μ_4 -(nitrosoethane-*N*:*N*:*O*:*O*)]tetrairon, 10Cl
 Undecacarbonyl(μ_4 -ethanaminato)(μ_4 -nitrosoethane)-tetrairon
 [72840-16-5]



M 633.638

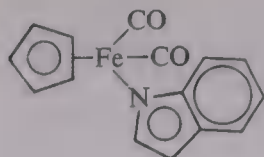
Deep-green cryst (heptane).

Aime, S. *et al*, *J. Chem. Soc., Dalton Trans.*, 1978, 534 (*synth*)
 Gervasio, G. *et al*, *J. Chem. Res. (S)*, 1979, 334 (*struct*)

C₁₅H₁₁FeNO₂

Fe-01301

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^1 -1*H*-indol-1-yl)-iron
 [12111-61-4]



M 293.104

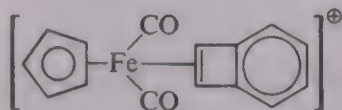
Red cryst. (CH₂Cl₂/ligroin). Mp 114-114.5°.

Pauson, P.L. *et al*, *J. Organomet. Chem.*, 1967, 7, 321 (*synth*, *pmr*, *ir*)

C₁₅H₁₁FeO₂⁺

Fe-01302

[(7,8- η)Bicyclo[4.2.0]octa-1,3,5,7-tetraene]dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+), 9Cl
 Dicarbonyl(benzocyclobutadiene)- π -cyclopentadienyli-ron(1+).
 η^2 -1,2-Benzocyclobutadiene- η^5 -cyclopentadienyldicarbonyliron(1+)



M 279.098 (ion)

Source of benzocyclobutadiene.

Hexafluorophosphate: [52456-44-7].

C₁₅H₁₁F₆FeO₂P M 424.062

Orange solid, dec. at r.t. Dec. rapidly in polar solvs.

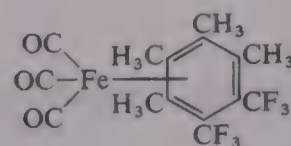
Sanders, A. *et al*, *J. Am. Chem. Soc.*, 1974, 96, 1610 (*synth*, *ir*)

Sanders, A. *et al*, *J. Organomet. Chem.*, 1976, 107, 359 (*synth*, *use*)

C₁₅H₁₂F₆FeO₃

Fe-01303

Tricarbonyl[(1,2,3,6- η)-1,2,3,4-tetramethyl-5,6-bis(trifluoromethyl)benzene]iron, 10Cl
 [66593-35-9]



M 410.095

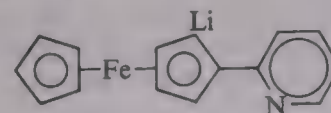
 η^4 -complex. Orange-red cryst. (hexane). Mp 62°.

Bond, A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1977, 2372 (*synth*, *struct*, *ir*, *pmr*, *nmr*, *ms*)

C₁₅H₁₂FeLiN

Fe-01304

1-Lithio-2-(2-pyridinyl)ferrocene



M 269.055

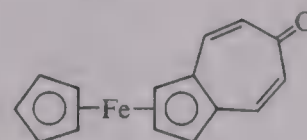
Not isol., used *in situ*.Booth, D.J. *et al*, *J. Chem. Soc. (C)*, 1968, 656 (*synth*, *use*)

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1970, 2133 (*synth*, *use*)

C₁₅H₁₂FeO

Fe-01305

(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3*a*,8*a*- η)-6-oxoazulen-yl]iron
 π -Cyclopentadienyl(π -6-dihydro-6-oxoazulenyl)iron,
 8Cl. 4,5-Ferrocenotropone

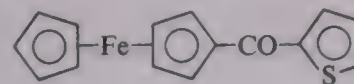


M 264.106

Red cryst. (Et₂O). Mp 142°.Moise, C. *et al*, *Bull. Soc. Chim. Fr.*, 1969, 1182 (*synth*, *pmr*)C₁₅H₁₂FeOS

Fe-01306

(2-Thienylcarbonyl)ferrocene, 9Cl
 2-Ferrocenoylthiophene. Ferrocenyl-2-thienylmethanone. Ferrocenyl 2-thienyl ketone
 [12087-88-6]



M 296.166

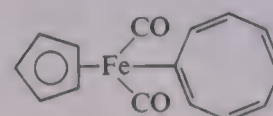
Red-orange cryst. Mp 125°.

Dabard, R. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1962, 254, 2014 (*synth*)

C₁₅H₁₂FeO₂

Fe-01307

Dicarbonyl-1,3,5,7-cyclooctatetraen-1-yl(η^5 -2,4-cyclopentadien-1-yl)iron, 9Cl
 σ -Cyclooctatetraenyl- π -cyclopentadienyldicarbonyliron
 [55672-79-2]



M 280.106

Yellow cryst. Mp ca. 30°.

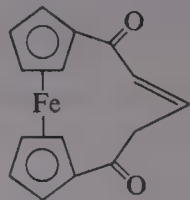
Cooke, M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 256 (*synth*, *ir*, *pmr*, *ms*)

C₁₅H₁₂FeO₂

Fe-01308

[5]Ferrocenophan-2-ene-1,5-dione

1,1'-(1,5-Dioxo-2-pentene-1,5-diyl)ferrocene, 9Cl
[33595-39-0]



M 280.106

Orange-red cryst. (Et₂O/pet. ether). Mp 220-2°.

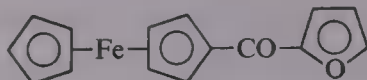
Barr, T.H. *et al*, *Tetrahedron*, 1968, **24**, 3219 (*synth*, *pmr*)

C₁₅H₁₂FeO₂

Fe-01309

(2-Furanylcarbonyl)ferrocene, 9Cl

2-Furoylferrocene. Ferrocenyl 2-furyl ketone. 2-Ferrocenoylfuran. Ferrocenyl-2-furylmethanone
[33031-95-7]



M 280.106

Orange-red cryst. Mp 80°.

Dabard, R. *et al*, *Bull. Soc. Chim. Fr.*, 1963, 1655 (*synth*)

Toma, Š. *et al*, *Chem. Zvesti*, 1969, **23**, 533, 540 (*synth*, *uv*)

C₁₅H₁₂FeO₃

Fe-01310

Tricarbonyl(1-phenyl-1,3-cyclohexadiene)iron

Tricarbonyl[[[(1,2,3,4-η)-1,3-cyclohexadien-1-yl]benzene]iron, 9Cl
[43140-16-5]

As Tricarbonyl[(1,2,3,4-η)-1-chloro-1,3-cyclohexadiene]iron, Fe-00363 with

R = Ph

M 296.105

Yellow cryst. Mp 53-5°. Bp_{0.05} 40° subl.

Whitesides, T.H. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 63 (*synth*, *ir*, *pmr*)

C₁₅H₁₂FeO₃

Fe-01311

Tricarbonyl(2-phenyl-1,3-cyclohexadiene)iron

Tricarbonyl[[[(1,2,5,6-η)-1,3-cyclohexadien-1-yl]benzene]iron, 9Cl
[59172-32-6]

As Tricarbonyl[(1,2,3,4-η)-2-chloro-1,3-cyclohexadiene]iron, Fe-00364 with

R = Ph

M 296.105

Yellow oil.

Whitesides, T.H. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 63 (*synth*, *pmr*, *ir*)

C₁₅H₁₂FeO₃

Fe-01312

Tricarbonyl(5-phenyl-1,3-cyclohexadiene)iron

Tricarbonyl[[[(2,3,4,5-η)-2,4-cyclohexadien-1-yl]benzene]iron, 10Cl
[57087-66-8]

As Tricarbonyl[(1,2,3,4-η)-5-chloro-1,3-cyclohexadiene]iron, Fe-00365 with

R = Ph

M 296.105

exo-form [60268-96-4]

No phys. props. reported.

John, G.R. *et al*, *J. Chem. Soc., Chem. Commun.*, 1975, 481 (*synth*)

Birch, A.J. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1976, 954 (*synth*, *ir*, *pmr*)

C₁₅H₁₂FeO₄

Fe-01313

Tricarbonyl[(3,4,5,6-η)-6-phenyl-3,5-hexadien-2-one]iron, 10Cl, 9Cl

[36569-76-3]

As Tricarbonyl[(2,3,4,5-η)-5-phenyl-2,4-pentadien-1-yl]iron, Fe-01155 with

X = -COCH₃

M 312.104

syn,syn-form [62444-94-4]

Light-yellow solid. Mp 114-114.5°. Bp_{0.01} 80° subl.

Clinton, N.A. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 3058 (*synth*, *ir*, *pmr*)

Lillya, C.P. *et al*, *J. Organomet. Chem.*, 1971, **32**, 371 (*pmr*)

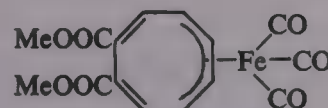
Graf, R.E. *et al*, *J. Organomet. Chem.*, 1976, **122**, 377 (*synth*)

C₁₅H₁₂FeO₇

Fe-01314

Tricarbonyl[(4,5,6,7-η)-dimethyl-2,4,6,8-cyclooctatetraene-1,2-dicarboxylate]iron

Tricarbonyl(1,3,5,7-cyclooctatetraene-1,2-dicarboxylic acid)iron dimethyl ester, 8Cl. [(1,2,3,4-η)-6,7-Bis(methoxycarbonyl)-1,3,5,7-cyclooctatetraene]tricarbonyliron



M 360.103

Orange cryst. (pet. ether/Et₂O). Mp 114-5°. Bp_{0.5} 80° subl.

Grubbs, R. *et al*, *J. Am. Chem. Soc.*, 1967, **89**, 6864 (*synth*, *ir*, *pmr*, *ms*, *mössbauer*)

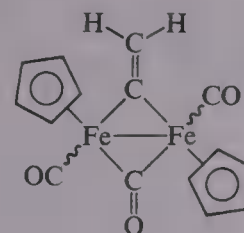
C₁₅H₁₂Fe₂O₃

Fe-01315

μ-Carbonyldicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)-μ-ethenylidenediiron, 10Cl

Bis(η⁵-cyclopentadienyl)-μ-(vinylidene)-diiron tricarbonyl. Tricarbonylbis(η⁵-cyclopentadienyl)-μ-ethenylidenediiron

[76722-37-7]



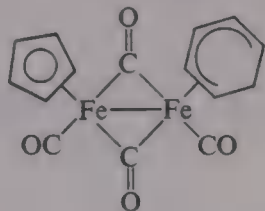
M 351.952

Red or orange-red cryst. (C₆H₆). Mp 153-5° (150°) dec.
Dawkins, G.M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1980, 1120 (*synth*, *ir*, *pmr*, *cmr*)
Kao, S.C. *et al*, *Organometallics*, 1982, **1**, 911 (*synth*, *ir*, *pmr*, *ms*)

C₁₅H₁₂Fe₂O₄

Fe-01316

Di- μ -carbonyldicarbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)diiron
Di- μ -carbonyldicarbonylcyclohexadienylium- π -cyclopentadienyldiiron, 8Cl. Tetracarbonyl(η^5 -cyclohexadienyl)(η^5 -cyclopentadienyl)diiron. (Cyclohexadienyl)-(cyclopentadienyl)diiron tetracarbonyl [12111-68-1]



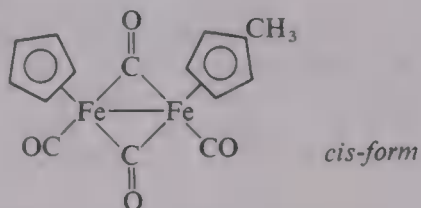
M 367.951

Characterised spectroscopically.

Hashmi, M.A. *et al*, *J. Chem. Soc. (A)*, 1967, 240 (*synth*, *ir*)C₁₅H₁₂Fe₂O₄

Fe-01317

Di- μ -carbonyldicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]diiron
Tetracarbonyl- π -cyclopentadienyldiiron, 8Cl

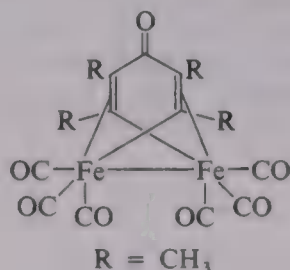


M 367.951

Red-purple cryst. (C₆H₆/hexane). Mp 133-4°. Mixt. of isomers.McArdle, P.A. *et al*, *J. Chem. Soc. (A)*, 1969, 1498 (*synth*, *ir*)C₁₅H₁₂Fe₂O₇

Fe-01318

Hexacarbonyl[μ -(1,2,5- η :1,4,5- η)-1,2,4,5-tetramethyl-3-oxo-1,4-pentadiene-1,5-diyl]diiron, 10Cl [64535-96-2]

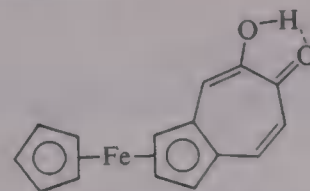


M 415.950

Piron, J. *et al*, *Bull. Soc. Chim. Belg.*, 1969, **78**, 121 (*struct*)C₁₅H₁₂O₂Fe

Fe-01319

(η^5 -2,4-Cyclopentadien-1-yl)(1,2,3,3a,8a- η)-5-oxo-6-hydroxyazulenyl]iron
4,5-Ferrocenotropolone

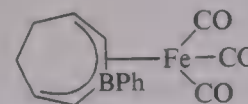


M 280.106

Intense violet cryst. (CH₂Cl₂/hexane). Mp 184°.Moise, C. *et al*, *Bull. Soc. Chim. Fr.*, 1969, 1182 (*synth*, *pmr*)C₁₅H₁₃BFeO₃

Fe-01320

Tricarbonyl[(1,2,3,6,7- η)-4,5-dihydro-1-phenyl-1H-borepinyl]iron
[62479-26-9]



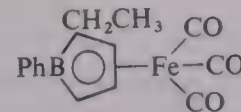
M 307.923

Bright-yellow air-sensitive cryst. (pentane). Mp 64.5-65.5°.

Herberich, G.E. *et al*, *Chem. Ber.*, 1977, **110**, 760 (*synth*, *pmr*, *nmr*, *ir*, *ms*)C₁₅H₁₃BFeO₃

Fe-01321

Tricarbonyl[(1,2,3,4,5- η)-2-ethyl-1-phenyl-1H-borole]iron, 10Cl
[60840-45-1]



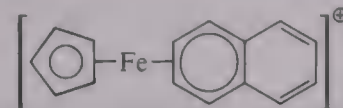
M 307.923

Air- and light-sensitive amber coloured oil. Mp >-30°.

Herberich, G.E. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1977, **16**, 43 (*synth*, *ms*, *ir*, *pmr*)C₁₅H₁₃Fe⁺

Fe-01322

(η^5 -2,4-Cyclopentadien-1-yl)(1,2,3,4,4a,8a- η)-naphthalenyl]iron(1+), 9Cl
[46466-61-9]



M 249.115 (ion)

Tetrafluoroborate: [1295-16-5].

C₁₅H₁₃BF₄Fe M 335.918

Yellow solid. Mp 131.5-133° dec.

Hexafluorophosphate: [59183-95-8].

C₁₅H₁₃F₆FeP M 394.079Orange flakes (MeCN/Et₂O or Me₂CO aq.). Mp 166-8° dec.Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1966, **166**, 607 (*synth*)Morrison, W.H. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 3603 (*synth*, *cmr*)Morrison, W.H. *et al*, *Inorg. Chem.*, 1975, **14**, 500 (*uv*)Sutherland, R.G. *et al*, *J. Organomet. Chem.*, 1975, **101**, 221 (*synth*, *cmr*, *pmr*)

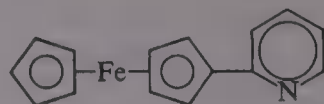
Solodovnikov, S.P. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1981, **258**, 415 (*uv*)

C₁₅H₁₃FeN

2-Pyridinylferrocene, 9Cl

2-Ferrocenylpyridine. α-Pyridylferrocene

[12216-00-1]



M 263.121

Red cryst. (EtOH or pet. ether/Et₂O). Mp 92-3° (87-9°).

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1962, **147**, 634 (*synth*)

Schlögl, K. *et al*, *Monatsh. Chem.*, 1963, **94**, 537 (*synth*)

Booth, D.J. *et al*, *J. Chem. Soc. (C)*, 1968, 656 (*pmr*, *ir*, *use*)

C₁₅H₁₃FeN

(3-Pyridinyl)ferrocene

3-Ferrocenylpyridine. (3-Pyridyl)ferrocene

M 263.121

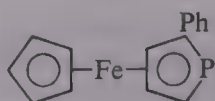
Cryst. (pet. ether). Mp 57-9°.

Schlögl, K. *et al*, *Monatsh. Chem.*, 1963, **94**, 537 (*synth*)

C₁₅H₁₃FeP(η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-2-phenyl-1H-phosphol-1-yl]iron, 10Cl

2-Phenylphosphaferrocene

[64815-19-6]



M 280.088

Isol. as a mixt. (2:1) with (η⁵-2,4-Cyclopentadien-1-yl)-[(1,2,3,4,5-η)-3-phenyl-1H-phosphol-1-yl]iron, Fe-01326.

Mathey, F., *J. Organomet. Chem.*, 1977, **139**, 77 (*synth*, *pmr*)

C₁₅H₁₃FeP(η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-3-phenyl-1H-phosphol-1-yl]iron, 10Cl

3-Phenylphosphaferrocene

[64815-20-9]

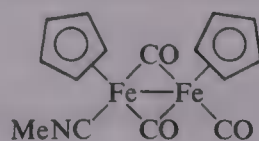
M 280.088

Isol. as a mixt. (1:2) with (η⁵-2,4-Cyclopentadien-1-yl)-[(1,2,3,4,5-η)-2-phenyl-1H-phosphol-1-yl]iron, Fe-01325.

Mathey, F., *J. Organomet. Chem.*, 1977, **139**, 77 (*synth*, *pmr*)

C₁₅H₁₃Fe₂NO₃Tricarbonylbis(η⁵-2,4-cyclopentadien-1-yl)(isocyanomethane)diiron

[33087-84-2]



cis-form

M 366.967

Exists as *cis*-form in solid state, *cis-trans* isom. occurs in soln. Red-black cryst. (pentane). Mp 166-8° dec.

Fe-01323

Treichel, P.M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1970, 1627 (*synth*, *ir*)

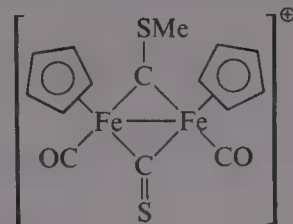
Jetz, W. *et al*, *J. Organomet. Chem.*, 1972, **35**, C37 (*synth*, *ir*)

Adams, R.D. *et al*, *Inorg. Chem.*, 1974, **13**, 257 (*struct*)

Bellerby, J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1978, 1185 (*synth*, *ir*)

C₁₅H₁₃Fe₂O₂S₂[⊕][μ-(Carbonothioyl)]dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)[μ-[(methylthio)methylidyne]]diiron(1+), 9Cl

[μ-(Thiocarbonyl)][μ-(methylthiocarbyne)]dicarbonylbis-π-cyclopentadienyldiiron(1+)



M 401.081 (ion)

Hexafluorophosphate: [60791-15-3].

C₁₅H₁₃F₆Fe₂O₂PS₂ M 546.045

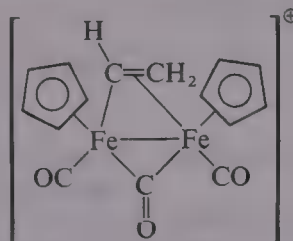
Black cryst.

Dunker, J.W. *et al*, *J. Organomet. Chem.*, 1976, **114**, C49 (*synth*, *ir*, *pmr*)

Fe-01324

C₁₅H₁₃Fe₂O₃[⊕]μ-Carbonyldicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)[μ-(η:η²-ethenyl)]diiron(1+), 10Cl

Tricarbonylbis(η⁵-2,4-cyclopentadien-1-yl)[μ-(η:η²-ethenyl)]diiron(1+)



M 352.960 (ion)

Obt. as a mixt. of isomers.

Tetrafluoroborate: [75818-23-4].

C₁₅H₁₃BF₄Fe₂O₃ M 439.764

Red-purple cryst. Mp 175° dec.

Dyke, A.F. *et al*, *J. Chem. Soc., Chem. Commun.*, 1980, 441 (*synth*, *ir*, *pmr*, *cmr*)

Fe-01325

Fe-01329

C₁₅H₁₃FeP(η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-3-phenyl-1H-phosphol-1-yl]iron, 10Cl

3-Phenylphosphaferrocene

[64815-20-9]

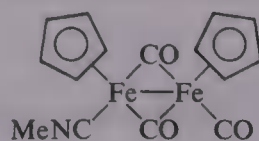
M 280.088

Isol. as a mixt. (1:2) with (η⁵-2,4-Cyclopentadien-1-yl)-[(1,2,3,4,5-η)-2-phenyl-1H-phosphol-1-yl]iron, Fe-01325.

Mathey, F., *J. Organomet. Chem.*, 1977, **139**, 77 (*synth*, *pmr*)

C₁₅H₁₃Fe₂NO₃Tricarbonylbis(η⁵-2,4-cyclopentadien-1-yl)(isocyanomethane)diiron

[33087-84-2]



cis-form

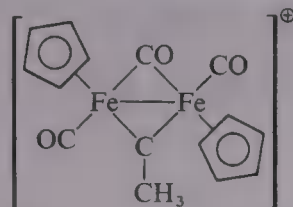
M 366.967

Exists as *cis*-form in solid state, *cis-trans* isom. occurs in soln. Red-black cryst. (pentane). Mp 166-8° dec.

Fe-01327

C₁₅H₁₃Fe₂O₃[⊕]μ-Carbonyldicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)-μ-ethylidynediiron(1+), 10Cl

Tricarbonylbis(η⁵-2,4-cyclopentadien-1-yl)-μ-ethylidynediiron(1+)



M 352.960 (ion)

Obt. as mixture of *cis* and *trans* isomers.

Tetrafluoroborate: [67378-10-3].

C₁₅H₁₃BF₄Fe₂O₃ M 439.764

No phys. props. reported.

Nitay, M. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 3620 (*synth*)
 Dawkins, G.M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1980,
 1120 (*synth*)

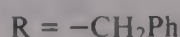
C₁₅H₁₄FeO₂ **Fe-01331**

Benzyl(methyl- π -cyclopentadienyl)dicarbonyliron

Dicarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](phenylmethyl)iron, 9Cl

[43157-69-3]

As *Dicarbonyl*[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]phenyliron, Fe-01179 with



M 282.121
 Yellow-orange oil.

Jacobson, S.E. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 6962 (*synth*, *ir*, *pmr*)

C₁₅H₁₄FeO₂ **Fe-01332**

Dicarbonylmethyl[(1,2,3,4,5- η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl]iron, 9Cl

Dicarbonylmethyl(1-methyl-3-phenyl- π -cyclopentadienyl)iron

[54497-51-7]

As *Dicarbonyliodo*[(1,2,3,4,5- η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl]iron, Fe-01169 with



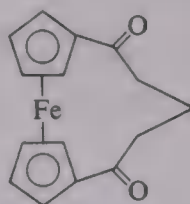
M 282.121
 Yellow cryst. Mp <20°.

Attig, T.G. *et al*, *J. Organomet. Chem.*, 1974, **82**, 397 (*synth*, *ir*, *pmr*)

C₁₅H₁₄FeO₂ **Fe-01333**

[5]Ferrocenophane-1,5-dione

1,1'-(1,5-Dioxo-1,5-pentanedyl)ferrocene, 9Cl. 1,5-Dioxo[5]ferrocenophane. 1,5-Diketo[5]ferrocenophane [12242-61-4]



M 282.121
 Orange-yellow cryst. (Et₂O/pet. ether). Mp 253°.

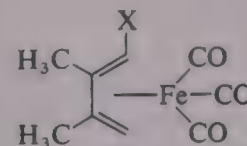
Furdik, M. *et al*, *Chem. Zvesti*, 1962, **16**, 449 (*synth*)
 Barr, T.H. *et al*, *Tetrahedron*, 1968, **24**, 3219 (*synth*, *pmr*)
 Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1974, **218**, 1107 (*cmr*, *pmr*)

C₁₅H₁₄FeO₄S **Fe-01334**

Tricarbonyl[1-(phenylsulfinyl)-2,3-dimethyl-1,3-butadiene]-iron

Tricarbonyl[[[(1,2,3,4- η)-2,3-dimethyl-1,3-butadienyl]-sulfinyl]benzene]iron, 10Cl

[66451-24-9]



M 346.180

No phys. props. reported.

S-oxide: See *Tricarbonyl*[1-(phenylsulfonyl)-2,3-dimethyl-1,3-butadiene]iron, Fe-01335

Gaoni, Y., *Tetrahedron Lett.*, 1977, 4521 (*synth*)

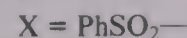
C₁₅H₁₄FeO₅S **Fe-01335**

Tricarbonyl[1-(phenylsulfonyl)-2,3-dimethyl-1,3-butadiene]-iron

Tricarbonyl[[[(1,2,3,4- η)-2,3-dimethyl-1,3-butadienyl]-sulfonyl]benzene]iron, 10Cl

[66451-27-2]

As *Tricarbonyl*[1-(phenylsulfinyl)-2,3-dimethyl-1,3-butadiene]iron, Fe-01334 with



M 362.180

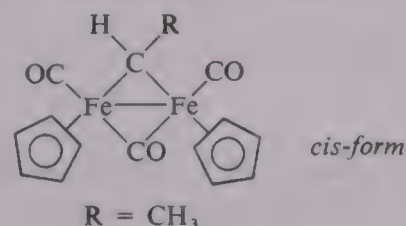
No phys. props. reported.

Gaoni, Y., *Tetrahedron Lett.*, 1977, 4521 (*synth*)

C₁₅H₁₄Fe₂O₃ **Fe-01336**

μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -ethylidenediiron, 10Cl

Bis(η^5 -cyclopentadienyl)- μ -ethylidenediiron tricarbonyl. *Tricarbonylbis*(η^5 -cyclopentadienyl)- μ -ethylideneiron



M 353.968

Obt. as a 5:1 *cis:trans* mixt.; isomers interconvert in solid state and in soln.

cis-form [75811-60-8]

Orange-red cryst. Mp 169° (166°) dec.

trans-form [75829-77-5]

Purple-red solid. Isomerises to *cis-form* <0°.

Dyke, A.F. *et al*, *J. Chem. Soc., Chem. Commun.*, 1980, 441 (*synth*, *struct*, *ir*, *pmr*, *cmr*)

Korswagen, R. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1981, **20**, 1049 (*synth*)

Meyer, B.B. *et al*, *Inorg. Chem.*, 1981, **20**, 3024 (*struct*)

Kao, S.C. *et al*, *Organometallics*, 1982, **1**, 911 (*synth*, *ir*, *pmr*, *cmr*, *ms*)

C₁₅H₁₄Fe₂O₄ **Fe-01337**

μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)(μ -(methoxymethylene))diiron

Bis(η^5 -cyclopentadienyl)- μ -(methoxymethylene)-diiron tricarbonyl. *Tricarbonylbis*(η^5 -cyclopentadienyl)(μ -(methoxymethylene))diiron

[81616-44-6]

As μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -ethylidenediiron, Fe-01336 with

R = OMe

M 369.967

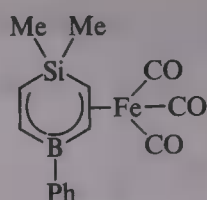
Red solid. Mp 170-3° dec.

cis-form [81616-44-6]Inseparable from *trans-form*. Pmr δ 12.58 ppm (CHOMe).**trans-form** [81654-89-9]Inseparable from *cis-form*. Pmr δ 11.62 ppm (CHOMe).Kao, S.C. *et al*, *Organometallics*, 1982, **1**, 911 (*synth*, *ir*, *pmr*, *cmr*, *ms*)C₁₅H₁₅BFeO₃Si

Fe-01338

Tricarbonyl[(2,3,4,5,6- η)-1,1-dimethyl-4-phenyl-1-sila-4-boracyclohexa-2,5-diene]iron, 10Cl

[62479-25-8]



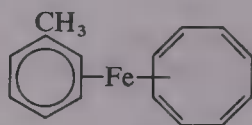
M 338.024

Pale-yellow cryst. (Et₂O). Mp 99°.Herberich, G.E. *et al*, *Chem. Ber.*, 1977, **110**, 760 (*synth*, *struct*, *pmr*, *nmr*, *ir*, *ms*)C₁₅H₁₆Fe

Fe-01339

[(1,2,3,4- η)-1,3,5,7-Cyclooctatetraene][(1,2,3,4,5,6- η)-methylbenzene]iron, 10Cl(η^4 -Cyclooctatetraene)(η^6 -toluene)iron

[71465-12-8]



M 252.138

Fluxional molecule.

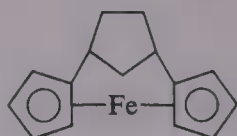
Ittel, S.D. *et al*, *J. Organomet. Chem.*, 1979, **172**, C47 (*synth*, *pmr*)C₁₅H₁₆Fe

Fe-01340

1,1'-(1,3-Cyclopentanediy)ferrocene, 9Cl

(Cyclopentylene-1'',3'')-1,1'-ferrocene

[12088-07-2]



M 252.138

Yellow plates (hexane). Mp 140°.

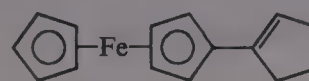
Weinmayr, V., *J. Am. Chem. Soc.*, 1955, **77**, 3009 (*synth*)
Cottis, S.G. *et al*, *Chem. Ind. (London)*, 1963, 860 (*synth*, *pmr*)
Neuse, E.W. *et al*, *J. Org. Chem.*, 1966, **31**, 2409 (*synth*)
Batail, P. *et al*, *J. Organomet. Chem.*, 1975, **102**, 79 (*synth*, *struct*, *pmr*, *cmr*)C₁₅H₁₆Fe

Fe-01341

(1-Cyclopenten-1-yl)ferrocene, 8Cl

1-Ferrocenylcyclopentene

[12260-67-2]



M 252.138

May be double-bond isomer. Orange cryst., stable in air.

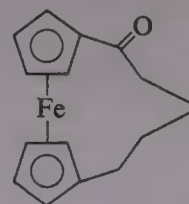
Sol. C₆H₆, EtOH, pet. ether. Mp 64-5°. Bp₁₀ 170-6°.Solns. in C₆H₆, EtOH stable, but those in aliphatic hydrocarbon solvs. deposit insol. products after several days.Weinmayr, V., *J. Am. Chem. Soc.*, 1955, **77**, 3009 (*synth*)Goldberg, S.I. *et al*, *J. Org. Chem.*, 1968, **33**, 2926 (*synth*, *ir*, *pmr*)C₁₅H₁₆FeO

Fe-01342

[5]Ferrocenophan-1-one

1,1'-(1-Oxo-1,5-pentanediy)ferrocene, 9Cl. 1-Keto[5]-ferrocenophane. 1-Oxo[5]ferrocenophane

[12242-62-5]



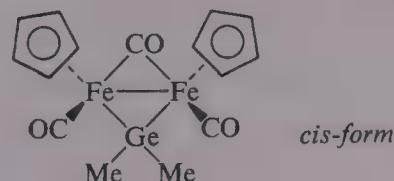
M 268.138

Yellow needles (Et₂O/pet. ether). Mp 123.5-124.5°.Barr, T.H. *et al*, *Tetrahedron*, 1968, **24**, 3219, 6111 (*synth*, *uv*, *pmr*, *conformn*)C₁₅H₁₆Fe₂GeO₃

Fe-01343

 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(dimethylgermylene)]diiron, 9Cl μ -Carbonyldicarbonyldi- π -cyclopentadienyl[μ -(dimethylgermylene)]diiron, 8Cl. Tricarbonylbis(cyclopentadienyl)[μ -(dimethylgermylene)]diiron

[36543-58-5]



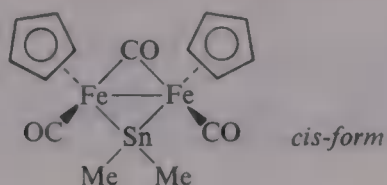
M 428.574

cis-form [36180-77-5]Dark-maroon cryst. (toluene). Has also been obt. as a 4:1 mixt. of *cis*- and *trans*- isomers (red cryst., Mp 218-20°).Curtis, M.D. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 2153 (*synth*, *pmr*, *ir*)Job, R.C. *et al*, *Inorg. Chem.*, 1973, **12**, 2510 (*synth*, *ms*)Adams, R.D. *et al*, *Inorg. Chem.*, 1974, **13**, 1080 (*synth*, *pmr*, *cmr*, *struct*)

C₁₅H₁₆Fe₂O₃Sn

Fe-01344

μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(dimethylstannylene)]diiron, 9Cl
 μ -Carbonyldicarbonyldi- π -cyclopentadienyl[μ -(dimethylstannylene)]diiron, 8Cl. Tricarbonylbis(cyclopentadienyl)[μ -(dimethylstannylene)]diiron
 [57428-46-3]



M 474.674

Exists in soln. at r.t. as an equilibrium mixt. of *cis*- and *trans*-isomers. Dark-purple cryst. Mp 178° dec.

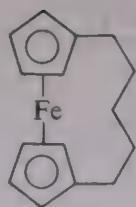
Triplett, K. *et al*, *Inorg. Chem.*, 1976, **15**, 431 (*synth*, *ms*, *pmr*)

C₁₅H₁₈Fe

Fe-01345

[5]Ferrocenophane

1,1'-(1,5-Pentenediyl)ferrocene, 9Cl
 [12283-07-7]



M 254.154

Yellow cryst. (pet. ether). Mp 60-1°.

Lüttringhaus, A. *et al*, *Makromol. Chem.*, 1961, **44-46**, 669 (*synth*)

Barr, T.H. *et al*, *Tetrahedron*, 1968, **24**, 3219 (*synth*, *pmr*)

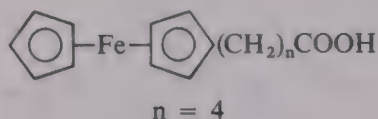
Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1974, **215**, 865, **218**, 1107 (*pmr*, *cmr*)

C₁₅H₁₈FeO₂

Fe-01346

Ferrocenepentanoic acid

(4-Carboxybutyl)ferrocene, 9Cl. δ -Ferrocenylvaleric acid
 [51812-72-7]



M 286.153

Yellow or orange needles. Mp 109-110.5°.

Me ester:

C₁₆H₂₀FeO₂ M 300.180
 Cryst. (hexane). Mp 32-3°.

Et ester:

C₁₇H₂₂FeO₂ M 314.207
 Cryst. (hexane). Mp 15-7°.

Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 3420 (*synth*)

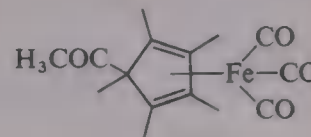
Roberts, D.T. *et al*, *J. Am. Chem. Soc.*, 1967, **89**, 6156 (*synth*, *pmr*, *ir*, *ms*)

C₁₅H₁₈FeO₄

Fe-01347

(5-Acetyl-1,2,3,4,5-pentamethyl-1,3-cyclopentadiene)tricarbonyliron

Tricarbonyl[1-[(2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]ethanone]iron, 9Cl. Tricarbonyl-(methyl-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl ketone)iron
 [34808-34-9]



M 318.152

Yellow waxy cryst. (pentane).

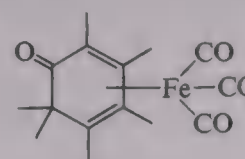
King, R.B. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 3773 (*synth*, *ir*, *pmr*, *ms*)

C₁₅H₁₈FeO₄

Fe-01348

Tricarbonyl[(2,3,4,5- η)-2,3,4,5,6,6-hexamethyl-2,4-cyclohexadien-1-one]iron, 9Cl

[35312-58-4]



M 318.152

Yellow cryst. (pet. ether). Mp 175°.

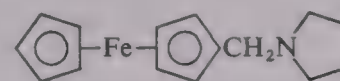
Berezina, R.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1970, 2583; 1973, 2273 (*synth*, *ir*, *uv*, *pmr*)

C₁₅H₁₉FeN

Fe-01349

(1-Pyrrolidinylmethyl)ferrocene, 9Cl

1-(Ferrocenylmethyl)pyrrolidine
 [12245-63-5]



M 269.169

Yellow plates (pet. ether). Mp 50-2°.

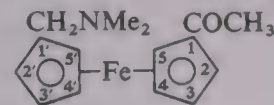
Hadlington, M. *et al*, *J. Chem. Soc. (C)*, 1967, 1436 (*synth*, *ir*)

C₁₅H₁₉FeNO

Fe-01350

1-Acetyl-1'-[(dimethylamino)methyl]ferrocene

1'-Acetyl-N,N-dimethylferrocenemethanamine



M 285.168

Orange cryst. (pentane). Mp 59°.

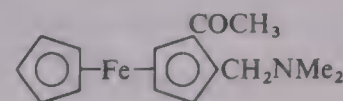
Moise, C. *et al*, *Bull. Soc. Chim. Fr.*, 1971, 4562 (*synth*)

C₁₅H₁₉FeNO

Fe-01351

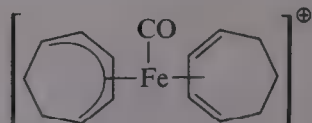
1-Acetyl-2'-[(dimethylamino)methyl]ferrocene, 9Cl

2-Acetyl-N,N-dimethylferrocenemethanamine
 [36569-45-6]



M 285.168

Orange-red oil.

Moise, C. *et al*, *Bull. Soc. Chim. Fr.*, 1971, 4562 (*synth*, *pmr*)**C₁₅H₁₉FeO⁺****Fe-01352****Carbonyl[(1,2,3,4- η)-1,3-cycloheptadiene][(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iron(1+), 9Cl**

M 271.162 (ion)

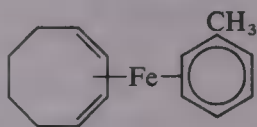
Tetrafluoroborate: [54775-82-5].

C₁₅H₁₉BF₄FeO M 357.965

Characterised spectroscopically.

Ashley-Smith, J. *et al*, *J. Organomet. Chem.*, 1974, **82**, 257 (*synth*, *ir*)**C₁₅H₂₀Fe****Fe-01353****[(1,2,3,4- η)-1,3-Cyclooctadiene][(1,2,3,4,5,6- η)-methylbenzene]iron, 10Cl****(η^4 -1,3-Cyclooctadiene)(η^6 -toluene)iron**

[71465-09-3]



M 256.170

Unstable red oil.

Ittel, S.D. *et al*, *J. Organomet. Chem.*, 1979, **172**, C47 (*synth*, *pmr*)**C₁₅H₂₀Fe****Fe-01354****[(1,2,5,6- η)-1,5-Cyclooctadiene][(1,2,3,4,5,6- η)-methylbenzene]iron, 10Cl****(η^4 -1,5-Cyclooctadiene)(η^6 -toluene)iron**

[71465-10-6]

As (η^6 -Benzene)[(1,2,5,6- η)-1,5-cyclooctadiene]iron, Fe-01242 withR = CH₃

M 256.170

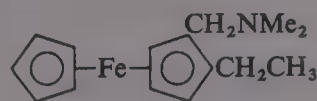
Thermally unstable bright-orange cryst.

Ittel, S.D. *et al*, *J. Organomet. Chem.*, 1979, **172**, C47 (*synth*, *pmr*)**C₁₅H₂₀FeO₃****Fe-01355****Tricarbonyl[(1,2,3,4- η)-1,2-di-*tert*-butyl-1,3-cyclobutadiene]iron****[(1,2,3,4- η)-1,2-Bis(1,1-dimethylethyl)-1,3-cyclobutadiene]tricarbonyliron, 9Cl**

[57515-20-5]

As Tricarbonyl(η^4 -1,2-diiodo-1,3-cyclobutadiene)iron, Fe-00147 withR = —C(CH₃)₃

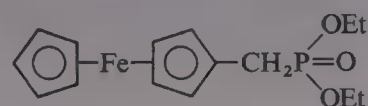
M 304.168

Photosensitive orange oil. Bp_{0.3} 45°.Berens, G. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 7076 (*synth*, *ir*, *pmr*)**C₁₅H₂₁FeN****Fe-01356****1-[(Dimethylamino)methyl]-2-ethylferrocene, 9Cl**
[12111-89-6]

M 271.185

($\pm$)-form

Orange oil.

Shilovtseva, L.S. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1966, **7**, 2175 (*synth*)Slocum, D.W. *et al*, *J. Org. Chem.*, 1973, **38**, 1677 (*synth*, *pmr*)**C₁₅H₂₁FeO₃P****Fe-01357****[(Diethoxyphosphinyl)methyl]ferrocene, 10Cl**
[68004-81-9]

M 336.150

Cryst. or viscous liq. Mp 144-5°.

Toma, Š. *et al*, *Chem. Zvesti*, 1969, **23**, 540 (*synth*)Boer, V.I., *Zh. Obshch. Khim.*, 1978, **48**, 1594 (*synth*, *props*)**C₁₅H₂₂FeOP₂****Fe-01358****[(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl][(1,2,3,4,5- η)- $\alpha,\alpha,3,4$ -tetramethyl-1*H*-phosphole-2-methanolato]iron, 10Cl****2- α -Hydroxyisopropyl-3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene**

[73153-36-3]

As [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphole-2-carboxaldehydato][(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-1-yl]iron, Fe-01102 withR = —C(OH)(CH₃)₂

M 336.133

Cryst. (hexane). Mp 98°.

De Lauzon, G. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 994 (*synth*, *pmr*, *nmr*, *ms*)**C₁₅H₂₅FeN₅****Fe-01359****Pentakis(isocynoethane)iron****Pentakis(ethylisocyanide)iron**

[69496-16-8]

Fe(CNEt)₅

M 331.243

Yellow air-sensitive cryst. (pet. ether/Et₂O).Bassett, J.-M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1979, 1003 (*synth*, *pmr*, *cmr*, *ir*)**C₁₅H₂₆FeN₂O****Fe-01360****Carbonyl[(1,2,3,4- η)-2,3-dimethyl-1,3-butadiene[*N*-,*N'*-1,2-ethanediyldenebis[2-propanamine]-*N*,*N'*]]iron, 10Cl**
[72142-41-7]As (η^4 -1,3-Butadiene)carbonyl[*N*,*N'*-1,2-ethanediyldenebis[2-propanamine]-*N*,*N'*]]iron, Fe-01121 withR = CH₃

M 306.230

Red-brown needles with intense green refraction.

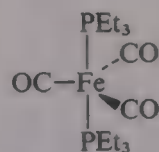
Fruehauf, H.-W. *et al*, *Chem. Ber.*, 1982, **115**, 1070 (*synth*, *struct*)

Ittel, S.D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 6905 (*pmr*, *nmr*, *cmr*)

C₁₅H₃₀FeO₃P₂

Fe-01361

Tricarbonylbis(triethylphosphine)iron, 8Cl



M 376.195

trans-form [18533-29-4]

No phys. props. reported.

Reckziegel, A. *et al*, *J. Organomet. Chem.*, 1965, **3**, 341 (*ir*)

Bigorgne, M. *et al*, *Bull. Soc. Chim. Fr.*, 1967, 4100 (*ir*)

Kahn, O. *et al*, *J. Organomet. Chem.*, 1967, **10**, 137 (*synth*, *ir*)

Mann, B.E., *Adv. Organomet. Chem.*, 1974, **12**, 135 (*cmr*)

Frazier, C.C. *et al*, *Inorg. Chem.*, 1981, **20**, 4009.

C₁₅H₃₀FeO₉P₂

Fe-01362

Tricarbonylbis(trimethyl phosphite-*P*)iron

Tricarbonylbis(phosphorous acid)iron hexaethyl ester, 8Cl

[22602-47-7]

As Tricarbonylbis(trimethylphosphine)iron, Fe-00465 with

R = OEt

M 472.191

trans-form [22602-47-7]

Cryst. Mp 61-2°. Bp_{0.1} 100° subl.

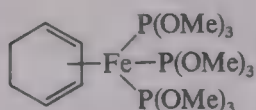
Cotton, J.D. *et al*, *Aust. J. Chem.*, 1969, **22**, 2673 (*synth*, *ir*, *pmr*, *ms*, *raman*)

C₁₅H₃₅FeO₉P₃

Fe-01363

[(1,2,3,4- η)-1,3-Cyclohexadiene]tris(trimethyl phosphite-*P*)-iron, 10Cl

[71262-09-4]



M 508.204

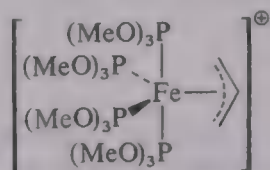
Fluxional molecule. Yellow cryst. Mp 212°.

Ittel, S.D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 3874 (*synth*, *pmr*, *cmr*, *nmr*, *ir*, *ms*)

C₁₅H₄₁FeO₁₂P₄⁺

Fe-01364

(η^3 -2-Propenyl)tetrakis(trimethyl phosphite-*P*)iron(I⁺), 10Cl
(η^3 -Allyl)tetrakis(trimethyl phosphite)iron(I⁺)



M 593.224 (ion)

Tetraphenylborate: [72330-81-5].

C₃₉H₆₁BFeO₁₂P₄ M 912.456

Yellow cryst.

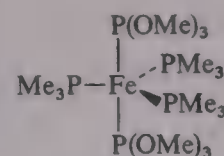
Muetterties, E.L. *et al*, *J. Chem. Soc., Chem. Commun.*, 1974, 851 (*synth*)

C₁₅H₄₅FeO₆P₅

Fe-01365

Tris(trimethylphosphine)bis(trimethyl phosphite-*P*)iron

[63835-33-6]



M 532.233

Brown solid. Dec. at 85°.

Karsch, H.H. *et al*, *Chem. Ber.*, 1977, **110**, 2200 (*synth*, *nmr*, *pmr*, *ir*)

C₁₅H₄₅FeO₁₅P₅

Fe-01366

Pentakis(trimethyl phosphite-*P*)iron, 9Cl

Pentakis(phosphorous acid)iron pentadecamethyl ester

[54926-71-5]

Fe[P(OMe)₃]₅

M 676.227

Stereochemically nonrigid. Air-sensitive yellow cryst. Mp 158-60°. Subl. at 80°; dec. by halocarbon solvents.

English, A.D. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 1254; 1977, **99**, 117 (*synth*, *pmr*)

Tolman, C.A. *et al*, *Inorg. Chem.*, 1977, **16**, 479 (*synth*)

Harris, T.V. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 6966 (*synth*)

Inorg. Synth., 1980, **20**, 79 (*synth*, *nmr*)

C₁₅H₄₆FeO₁₅P₅⁺

Fe-01367

Hydropentakis(trimethyl phosphite-*P*)iron(I⁺), 9Cl

HFe[P(OMe)₃]₅⁺

M 677.235 (ion)

Hexafluorophosphate: [55046-73-6].

C₁₅H₄₆F₆FeO₁₅P₆ M 822.199

Cryst. (THF). Mp 255°.

Ittel, S.D. *et al*, *Inorg. Chem.*, 1977, **16**, 1245 (*synth*)

Harris, T.V. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 6966 (*synth*, *pmr*)

Ittel, S.D. *et al*, *Inorg. Chim. Acta*, 1979, **33**, 101 (*synth*, *nmr*)

McEwen, C.N. *et al*, *Org. Mass Spectrom.*, 1980, **15**, 35 (*ms*)

C₁₆F₁₀FeO₄

Fe-01368

Tetracarbonylbis(pentafluorophenyl)iron, 9Cl

[52573-38-3]

(C₆F₅)₂Fe(CO)₄

M 502.005

Yellow cryst. (Et₂O/hexane). Mp 155-7°.

Bennett, R.L. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 2653 (*synth*, *nmr*, *ir*)

C₁₆Fe₄O₁₆Pb

Fe-01369

Hexadecacarbonyl- μ_4 -plumbanetetrayltetrairon, 8Cl

Tetrakis(tetracarbonyliron)lead

[12367-02-1]

Pb[Fe(CO)₄]₄

M 711.213

No phys. props. reported. ν_{CO} 2067, 2042, 2022, 2012 cm⁻¹.Cotton, J.D. *et al*, *J. Chem. Soc. (A)*, 1967, 264 (*synth*, *ir*)
Delbeke, F.T. *et al*, *J. Organomet. Chem.*, 1970, **25**, 213 (*ir*)C₁₆Fe₄O₁₆Sn

Fe-01370

Hexadecacarbonyl- μ_4 -stannanetetrayltetrairon, 8Cl*Tetrakis(tetracarbonyliron)tin*

[15529-75-6]

Sn[Fe(CO)₄]₄

M 622.703

Bright-red solid. Mp 80° dec.

Cotton, J.D. *et al*, *J. Chem. Soc. (A)*, 1967, 264 (*synth*, *ir*)
Delbeke, F.T. *et al*, *J. Organomet. Chem.*, 1970, **25**, 213 (*ir*)C₁₆Fe₄GeO₁₆

Fe-01371

Hexadecacarbonyl- μ_4 -germanetetrayltetrairon, 8Cl*Tetrakis(tetracarbonyliron)germanium*

[12367-01-0]

Ge[Fe(CO)₄]₄

M 744.144

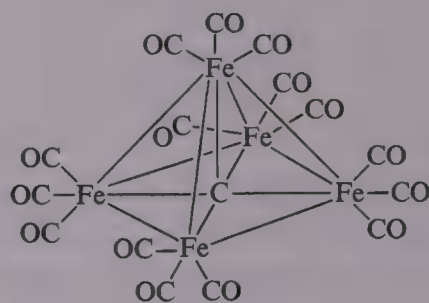
No phys. props. reported. ν_{CO} 2074, 2048, 2031, 2012 cm⁻¹.Cotton, J.D. *et al*, *J. Chem. Soc. (A)*, 1967, 264 (*synth*, *ir*)
Delbeke, F.T. *et al*, *J. Organomet. Chem.*, 1970, **25**, 213 (*ir*)C₁₆Fe₅O₁₅

Fe-01372

(Carbon)pentadecacarbonylpentairon, 9Cl

Pentadecacarbonylmethanetetraylpentairon, 8Cl

[11087-47-1]



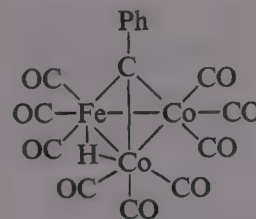
M 711.402

Black needles or plates (hexane). Mp 110-20° dec. Bp_{0.1} 50° subl.Braye, E.H. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 4633 (*synth*, *struct*, *ir*, *uv*)
Stewart, R.P. *et al*, *J. Organomet. Chem.*, 1971, **32**, C49 (*synth*, *ir*, *ms*)
Bradley, J.S. *et al*, *Organometallics*, 1982, **1**, 1634 (*synth*, *ir*)C₁₆H₆Co₂FeO₉

Fe-01373

Tricarbonyl(hexacarbonyldicobalt)hydro[μ_3 -(phenylmethyldyne)]iron, 10Cl*Nonacarbonylhydro(phenylmethyldyne)dicobaltiron*

[69493-77-2]

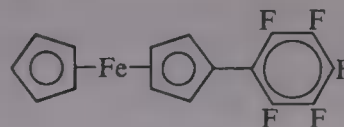


M 515.931

Position of hydride not definitely determined but thought to be bridging. Unstable under N₂, stored at 0° under CO. Pmr -9.00 ppm (bridging hydride).Epstein, R.A. *et al*, *Inorg. Chem.*, 1979, **18**, 942 (*synth*, *ir*, *uv*, *pmr*, *ms*)C₁₆H₉F₅Fe

Fe-01374

(Pentafluorophenyl)ferrocene, 8Cl



M 352.086

Large brown-orange plates (pet. ether). Mp 98-9°.

Bruce, M.I. *et al*, *J. Chem. Soc. (C)*, 1969, **16**, 2107 (*synth*, *ir*, *pmr*, *nmr*)Bruce, M.I. *et al*, *Org. Mass Spectrom.*, 1969, **2**, 997 (*ms*)C₁₆H₁₀AsFeO₄[⊖]

Fe-01375

Tetracarbonyl(diphenylarsino)ferrate(1-), 9Cl

(OC)₄FeAsPh₂[⊖]

M 397.021 (ion)

Reagent for preparing iron-arsine complexes.

Bis(triphenylphosphine)iminium salt: [40944-27-2].C₅₂H₄₀AsFeNO₄P₂ M 935.608

Yellow cryst.

Collmann, J.P. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 2389 (*synth*, *ir*, *use*)C₁₆H₁₀FeO₄P[⊖]

Fe-01376

Tetracarbonyl(diphenylphosphino)ferrate(1-), 9Cl

(OC)₄FePPh₂[⊖]

M 353.073 (ion)

Reagent for preparing iron-phosphine complexes.

Li salt:C₁₆H₁₀FeLiO₄P M 360.014Generated and used *in situ*.*Bis(triphenylphosphine)iminium salt*: [40923-28-2].C₅₂H₄₀FeNO₄P₃ M 891.661

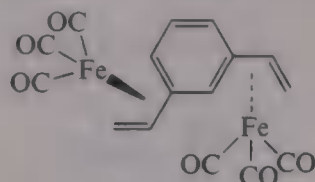
Yellow cryst.

Treichel, P.M. *et al*, *Inorg. Chem.*, 1972, **11**, 1609, 1615 (*synth*, *ir*, *pmr*)Collman, J.P. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 2389 (*synth*, *ir*, *use*)

C₁₆H₁₀Fe₂O₆

Fe-01377

Hexacarbonyl[μ-(η⁴:η⁴-1,3-diethenylbenzene)]diiron, 10Cl
Hexacarbonyl(m-divinylbenzene)diiron
[59034-82-1]



M 409.945

Orange cryst. (CH₂Cl₂/pentane). Mp 135-6° dec. Bp_{0.1} 100° subl.

Manuel, T.A. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 3597 (*synth*, *ir*)

Davis, R.E. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 716 (*struct*)

C₁₆H₁₀Fe₂O₆

Fe-01378

Hexacarbonyl[μ-(η⁴:η⁴-1,4-diethenylbenzene)]diiron, 10Cl
Hexacarbonyl(p-divinylbenzene)diiron
[59034-84-3]

M 409.945

Yellow cryst. Mp 110° dec. Bp_{0.1} 90-100° subl.

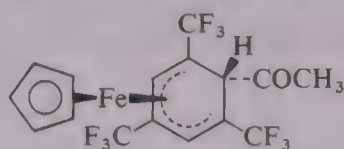
Manuel, T.A. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 3597 (*synth*, *ir*)

Davis, R.E. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 716 (*struct*)

C₁₆H₁₁F₉FeO

Fe-01379

[(1,2,3,4,5-η)-6-Acetyl-1,3,5-tris(trifluoromethyl)-2,4-cyclohexadien-1-yl](η⁵-2,4-cyclopentadien-1-yl)iron, 10Cl



M 446.095

exo-form [73847-92-4]

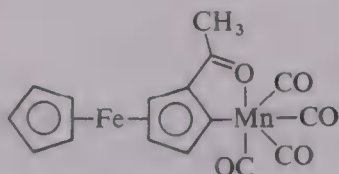
Volatile orange prisms (hexane).

Bottrill, M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1980, 292 (*synth*, *struct*, *ir*, *pmr*, *nmr*)

C₁₆H₁₁FeMnO₅

Fe-01380

(2-Acetylferrocenyl-C,O)tetracarbonylmanganese, 9Cl
[56708-99-7]



M 394.045

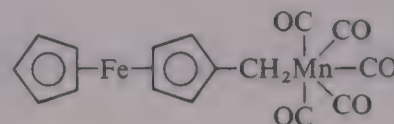
Red cryst. (hexane), dec. after some days in air. Soln. dec. overnight in air. Mp 126-127.5°.

Crawford, S.S. *et al*, *Inorg. Chem.*, 1977, **16**, 3193 (*synth*, *ms*)

C₁₆H₁₁FeMnO₅

Fe-01381

Pentacarbonyl(ferrocenylmethyl)manganese, 9Cl
[60349-59-9]



M 394.045

Mp 74-6°.

Pannell, K.H. *et al*, *Inorg. Chem.*, 1976, **15**, 2671 (*synth*, *pmr*, *ir*)

C₁₆H₁₁FeO₄P

Fe-01382

Tetracarbonyl(diphenylphosphine)iron, 9Cl
[18399-66-1]

(Ph₂PH)Fe(CO)₄

M 354.081

Used extensively for *synth.* of polynuclear complexes containing PPh₂ bridging group. Yellow needles (heptane). Mp 73-6°. Sl. air-sensitive. Thermally stable at r.t.

Smith, J.G. *et al*, *J. Chem. Soc. (A)*, 1967, 1694 (*synth*, *ir*, *nmr*, *pmr*)

Kilbourn, B.T. *et al*, *J. Chem. Soc. (A)*, 1969, 1906 (*cryst struct*)

Fischer, E.O. *et al*, *Chem. Ber.*, 1969, **102**, 2547 (*synth*)

Treichel, P.M. *et al*, *Inorg. Chem.*, 1972, **11**, 1609 (*synth*, *ir*, *pmr*)

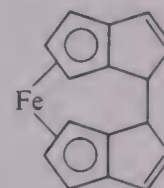
C₁₆H₁₂Fe

Fe-01383

[(3a,3'a,4,4',5,5',6,6',6a,6'a-η)-[1,1'-Bipentalen-e]-3a,3'a,(1H,1'H)-diyl]iron, 9Cl

Bis(pentalenyl)iron. (4,5,6,7,8,4',5',6',7',8'-Decahapto-1,1'-dihydro-1,1'-bipentalenyl)iron

[38959-96-5]



M 260.118

Orange-red cryst. (hexane). Mp 127-8°.

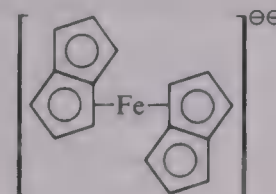
Katz, T.J. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 6205 (*synth*, *pmr*, *ms*, *uv*)

Churchill, M.R. *et al*, *Inorg. Chem.*, 1973, **12**, 2274 (*struct*)

C₁₆H₁₂Fe^{⊖⊖}

Fe-01384

Bis[(3a,3'a,4,4',5,5',6,6',6a,6'a-η)-pentalenyl]ferrate(2-)
Dipentalenyliron dianion



M 260.118 (ion)

Di-Li salt:

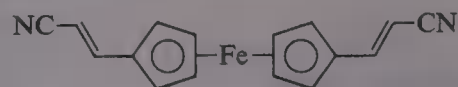
C₁₆H₁₂Li₂Fe M 274.000

Brown solid.

Katz, T.J. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 2030 (*synth*)

C₁₆H₁₂FeN₂**1,1'-Bis(2-cyanoethenyl)ferrocene, 9Cl**

[36472-42-1]



(E,E)-form

M 288.131

(E,E)-form [41707-13-5]

Mp 147-147.5°.

(E,Z)-form [41576-64-1]

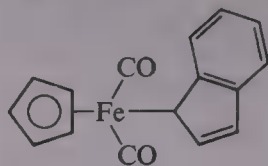
Mp 78°.

(Z,Z)-form [41707-12-4]

Mp 114°.

Kasahara, A. *et al*, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 895 (*synth*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **92**, 341(*synth*, *ir*, *ms*, *pmr*, *cmr*)C₁₆H₁₂FeO₂**Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)-1H-inden-1-yliron**

σ-Indenyl-π-cyclopentadienyldicarbonyliron

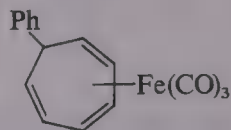


M 292.117

Red cryst. (pet. ether). Mp 62-4°.

Cotton, F.A. *et al*, *J. Am. Chem. Soc.*, 1967, **89**, 6136 (*synth*, *pmr*)C₁₆H₁₂FeO₃**Tricarbonyl[(1,2,3,4-η)-7-phenyl-1,3,5-cycloheptatriene]iron, 10Cl**

[63817-21-0]



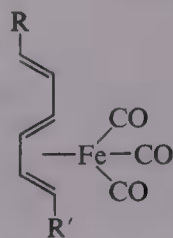
M 308.116

exo-form

Yellow blades (pet. ether). Mp 69.5-71.5°.

Jeffreys, J.A.D. *et al*, *J. Chem. Soc., Dalton Trans.*, 1977, 729 (*struct*)Pryde, A., *J. Chromatogr.*, 1978, **152**, 123.C₁₆H₁₂FeO₄**Tricarbonyl[(2,3,4,5-η)-7-phenyl-2,4,6-heptatrienal]iron, 9Cl**

[34788-37-9]



R = Ph, R' = CHO

M 324.115

syn, syn-form [51106-10-6]Yellow cryst. or orange stars (C₆H₆/EtOAc). Mp 104-5°, 110.5-112°.

Fe-01385

Whitlock, H.W. *et al*, *J. Am. Chem. Soc.*, 1971, **93**, 2483 (*synth*, *pmr*)Brodie, A.M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1997 (*synth*, *pmr*, *ir*, *uv*)C₁₆H₁₂FeO₄**Tricarbonyl[(4,5,6,7-η)-7-phenyl-2,4,6-heptatrienal]iron, 9Cl**

[34788-36-8]

As Tricarbonyl[(2,3,4,5-η)-7-phenyl-2,4,6-heptatrienal]iron, Fe-01388 with

R = CHO, R' = Ph

M 324.115

syn, syn-form [51106-12-8]

Red prisms (EtOAc). Mp 169.5-171°. Thermally isomerises to Tricarbonyl[(2,3,4,5-η)-7-phenyl-2,4,6-heptatrienal]iron, Fe-01388.

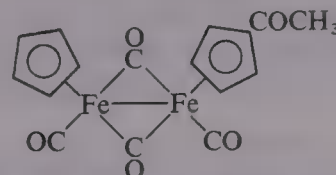
Whitlock, H.W. *et al*, *J. Am. Chem. Soc.*, 1971, **93**, 2483 (*synth*, *pmr*)Brodie, A.M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1997 (*synth*, *pmr*, *ir*, *uv*)

Fe-01386

C₁₆H₁₂Fe₂O₅

Fe-01390

[(1,2,3,4,5-η)-1-Acetyl-2,4-cyclopentadien-1-yl]di-μ-carbonyldicarbonyl(η⁵-2,4-cyclopentadien-1-yl)diiron
(η⁵-Acetylcyclopentadienyl)tetracarbonyl(η⁵-cyclopentadienyl)diiron. Tetracarbonyl(acetyl-π-cyclopentadienyl)-π-cyclopentadienyldiiron
[33195-10-7]



M 395.962

Dark-purple cryst. (Et₂O/C₆H₆). Mp 150° dec.Cutler, A.R. *et al*, *J. Organomet. Chem.*, 1976, **120**, 87 (*synth*, *pmr*, *ir*)

Fe-01387

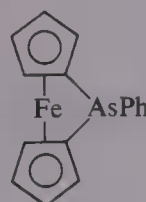
C₁₆H₁₃AsFe

Fe-01391

1,1'-(Phenylarsinidene)ferrocene, 10Cl

1,1'-(Phenylarsine)diylferrocene. 1-Phenyl-1-arsa[1]-ferrocenophane

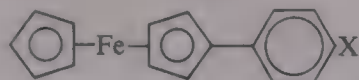
[72954-08-6]



M 336.047

Air-sensitive brick-red nuggets (hexane). Mp 107.5-109°.

Seyferth, D. *et al*, *Organometallics*, 1982, **1**, 1275 (*synth*, *ir*, *uv*, *cmr*, *pmr*, *ms*)

C₁₆H₁₃BrFe**Fe-01392****(4-Bromophenyl)ferrocene, 9Cl***(4-Ferrocenyl)bromobenzene. (4-Bromophenylcyclopentadienyl)(cyclopentadienyl)iron*
[58482-65-8]

X = Br

M 341.030

Yellow cryst. Mp 125°.

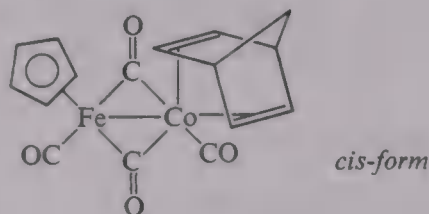
Mason, J.G. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 4206 (*synth*)Gronowitz, S. *et al*, *Org. Magn. Reson.*, 1975, **7**, 372 (*cmr*)Toma, S. *et al*, *Chem. Zvesti*, 1975, **29**, 526 (*pmr*)**C₁₆H₁₃ClFe****Fe-01393****(4-Chlorophenyl)ferrocene, 9Cl***(4-Ferrocenyl)chlorobenzene. (4-Chlorophenylcyclopentadienyl)(cyclopentadienyl)iron*
[12091-55-3]

As (4-Bromophenyl)ferrocene, Fe-01392 with

X = Cl

M 296.579

Yellow cryst. (AcOH aq.). Mp 122°.

Weinmayr, V., *J. Am. Chem. Soc.*, 1955, **77**, 3012 (*synth*, *uv*)Gronowitz, S. *et al*, *Org. Magn. Reson.*, 1975, **7**, 372 (*cmr*)Toma, S. *et al*, *Chem. Zvesti*, 1975, **29**, 526 (*pmr*)**C₁₆H₁₃CoFeO₄****Fe-01394****[[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene]carbonylcobalt-di- μ -carbonylcarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, 9Cl***Di- μ -carbonyl(carbonyl- π -norbornadienecobaltio)carbonyl- π -cyclopentadienyliron. π -Norbornadiene- π -cyclopentadienyltetracarbonylcobaltiron**cis-form*

M 384.057

Exists as a mixt. of *cis*- and *trans*-isomers in soln.***cis-form*** [36344-67-9]

Purple cryst. Mp 138-40°.

trans-form [36180-29-7]Formed from *cis*-isomer in soln.Manning, A.R., *J. Chem. Soc., Dalton Trans.*, 1972, 821 (*synth*, *ir*)Campbell, I.L.C. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 226 (*cryst struct*)**C₁₆H₁₃FeNO₂****Fe-01395****(4-Nitrophenyl)ferrocene, 9Cl***(4-Ferrocenyl)nitrobenzene. (Cyclopentadienyl)(4-nitrophenylcyclopentadienyl)iron*
[12091-58-6]

As (4-Bromophenyl)ferrocene, Fe-01392 with

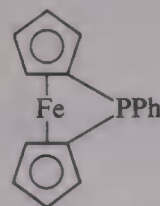
X = NO₂

M 307.131

Deep-purple rhombs (EtOH). Mp 169-70°.

Broadhead, G.D. *et al*, *J. Chem. Soc.*, 1955, 367 (*synth*)Gronowitz, S. *et al*, *Org. Magn. Reson.*, 1975, **7**, 372 (*cmr*)Toma, S. *et al*, *Chem. Zvesti*, 1975, **29**, 526 (*pmr*)**C₁₆H₁₃FeP****Fe-01396****1,1'-(Phenylphosphinidene)ferrocene, 10Cl***1-Phenyl-1-phospha[1]ferrocenophane. 1,1'-(Phenylphosphinidene)diylferrocene. (1,1'-Ferrocenediyl)phenylphosphine*

[72954-06-4]

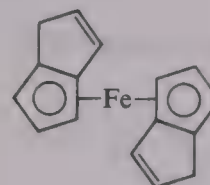


M 292.099

Air-sensitive, brick-red nuggets (hexane). Mp 100-2°.

Osborne, A.G. *et al*, *J. Organomet. Chem.*, 1980, **193**, 345(*synth*)Stoeckli-Evans, H. *et al*, *J. Organomet. Chem.*, 1980, **194**, 91(*struct*)Seyferth, D. *et al*, *Organometallics*, 1982, **1**, 1275 (*synth*, *ir*, *uv*, *cmr*, *pmr*, *ms*)**C₁₆H₁₄Fe****Fe-01397****Bis[1*H*-(3*a*,3*a'*,4,4',5,5',6,6',6*a*,6'*a*)- η]hydropentalenyl]iron***Bis(4-dihydro- π -pentalenyl)iron, 8Cl.**Dihydropentalenyliron*

[12126-31-7]

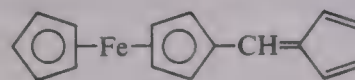


M 262.134

Red needles (hexane). Mp 95-9°. Mixt. of 2 isomers.

Katz, T.J. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 2030; 1972, **94**, 6205.**C₁₆H₁₄Fe****Fe-01398****(2,4-Cyclopentadien-1-ylidenemethyl)ferrocene, 9Cl***5-(Ferrocenylmethylene)-1,3-cyclopentadiene.**Ferrocenylfulvene*

[59418-34-7]



M 262.134

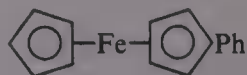
Air- and heat-sensitive deep-red cryst. (hexane). Mp 60°.

Osgerby, J.M. *et al*, *J. Chem. Soc.*, 1961, 4604 (*synth*)Knox, G.R. *et al*, *J. Chem. Soc.*, 1961, 4619 (*use*)Furdik, M. *et al*, *Chem. Zvesti*, 1962, **16**, 719 (*synth*)Cassens, A. *et al*, *J. Organomet. Chem.*, 1981, **205**, C17 (*synth*, *pmr*, *uv*)

C₁₆H₁₄Fe

Phenylferrocene, 9Cl

[1287-25-8]



M 262.134

Orange cryst. (pet. ether). Mp 110-1°.

Pauson, P.L., *J. Am. Chem. Soc.*, 1954, **76**, 645 (*synth*, *ir*)Nefedov, V.A., *Zh. Obshch. Khim.*, 1966, **36**, 1954 (*synth*)Kamezawa, N., *J. Magn. Reson.*, 1973, **11**, 88 (*pmr*)Gonowicz, S., *Org. Magn. Reson.*, 1975, **7**, 372 (*cmr*)

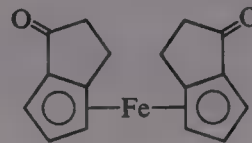
Fe-01399

C₁₆H₁₄FeO₂

Bis[(1,2,3,3a,6a-η)-3a,4,5,6-tetrahydro-6-oxo-3a-pentalen-yl]iron, 9Cl

[3](1,2)[3](1',2')Ferrocenophane-6,9-dione

[59520-10-4]



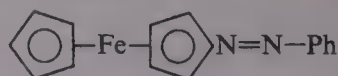
M 294.132

trans-(?)-form

Red plates (EtOAc). Mp 187-187.5°.

Hisatome, M. *et al*, *J. Organomet. Chem.*, 1976, **107**, 87 (*synth*)C₁₆H₁₄FeN₂

Phenylazoferrocene

π-Cyclopentadienyl(phenylazo-*π*-cyclopentadienyl)iron. 1-Ferrocenyl-2-phenyldiazene

M 290.147

Violet needles (ligroin). Mp 109-10°.

Knox, G.R. *et al*, *J. Chem. Soc.*, 1961, 4615 (*synth*)

Fe-01400

C₁₆H₁₄FeO

(4-Hydroxyphenyl)ferrocene, 9Cl

4-Ferrocenylphenol. (Cyclopentadienyl)(4-hydroxyphenylcyclopentadienyl)iron

[32994-52-8]

As (4-Bromophenyl)ferrocene, Fe-01392 with

X = OH

M 278.133

Orange-yellow leaflets (EtOH). Mp 163-4°.

Broadhead, G.D. *et al*, *J. Chem. Soc.*, 1955, 367 (*synth*)Gronowitz, S. *et al*, *Org. Magn. Reson.*, 1975, **7**, 372 (*cmr*)Toma, S. *et al*, *Chem. Zvesti*, 1975, **29**, 526 (*pmr*)

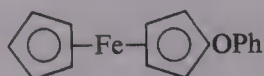
Fe-01401

C₁₆H₁₄FeO

Phenoxyferrocene, 9Cl

Ferrocenyl phenyl ether. Cyclopentadienyl(phenoxy-cyclopentadienyl)iron

[1294-11-7]



M 278.133

Mp 87-8°.

Nefedov, V.A. *et al*, *Zh. Obshch. Khim.*, 1966, **36**, 122 (*synth*)Nesmeyanov, A.N. *et al*, *Zh. Strukt. Khim.*, 1973, **14**, 49 (*cmr*)

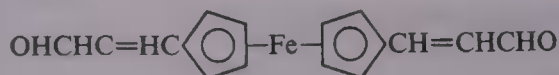
Fe-01402

C₁₆H₁₄FeO₂

1,1'-Bis(3-oxo-1-propenyl)ferrocene, 9Cl

1,1'-Bis(2-formylvinyl)ferrocene

[36472-43-2]



M 294.132

Mp 69-70°.

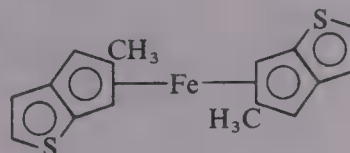
Kasahara, A. *et al*, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 895 (*synth*, *ir*, *pmr*)

Fe-01403

C₁₆H₁₄FeS₂

Bis[(3a,4,5,6,6a-η)-5-methyl-3aH-cyclopenta[b]thien-3a-yl]iron, 10Cl

[64654-73-5]



M 326.254

May be a mixt. of isomers. Dark-red cryst. Mp 158-60°.

Bp_{0.001} 100° subl.

Fe-01404

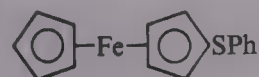
Fe-01405

C₁₆H₁₄FeS

(Benzenethiolato)ferrocene

Phenylthioferrocene. Cyclopentadienyl[(phenylthio)cyclopentadienyl]iron. Ferrocenyl phenyl sulfide.

(Phenylmercapto)ferrocene



M 294.194

Orange needles (pet. ether). Mp 111-2°.

S,S-Dioxide: [1272-34-0]. (Phenylsulfonyl)ferrocene, 9Cl. Ferrocenyl phenyl sulfone.

C₁₆H₁₄FeO₂S M 326.192Orange cryst. (EtOH or CHCl₃/heptane). Mp 145-6°, 153-4°.Rausch, M.D., *J. Org. Chem.*, 1961, **26**, 3579 (*synth*, *ir*)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1964, **159**, 591 (*dioxide*)Nefedov, V.A. *et al*, *Zh. Org. Khim.*, 1976, **12**, 2012 (*dioxide*)

Fe-01406

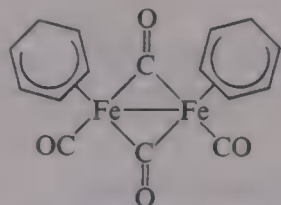
Fe-01407

Volz, H. *et al*, *J. Organomet. Chem.*, 1977, **136**, C27 (*synth*, *pmr*, *cmr*, *ms*, *uv*, *ir*)

Red-brown cryst. (CH₂Cl₂/pet. ether). Mp 168-70°. Hashmi, M.A. *et al*, *J. Chem. Soc. (A)*, 1967, 240 (*synth*, *ir*)

C₁₆H₁₄Fe₂O₄ Fe-01408

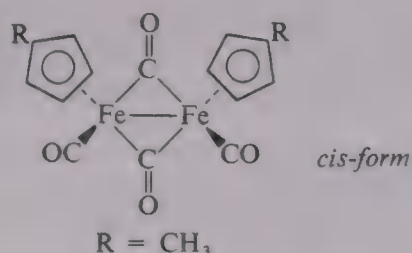
Di-μ-carbonyldicarbonylbis[(1,2,3,4,5-η)-2,4-cyclohexadien-1-yl]diiron, 10Cl
Di-μ-carbonyldicarbonyldicyclohexadienyliumdiiron, 8Cl. Tetracarbonylbis(cyclohexadienyl)diiron. Bis(cyclohexadienyldicarbonyliron)
[12112-17-3]



M 381.978
Red cryst. (CH₂Cl₂/ligroin). Mp >160° dec.
Hashmi, M.A. *et al*, *J. Chem. Soc. (A)*, 1967, 240 (*synth*, *ir*)
Reddy, B.R. *et al*, *Tetrahedron Lett.*, 1980, **21**, 3639 (*synth*)

C₁₆H₁₄Fe₂O₄ Fe-01409

Di-μ-carbonyldicarbonylbis[(1,2,3,4,5-η)-1-methyl-2,4-cyclopentadien-1-yl]diiron, 9Cl
Tetracarbonylbis(methyl-π-cyclopentadienyl)diiron, 8Cl. Bis[methylcyclopentadienyldicarbonyliron]
[32028-30-1]

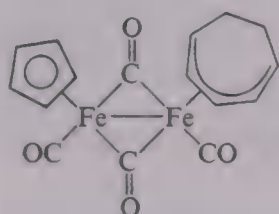


M 381.978
Exists as *trans*-form in solid state but as a mixt. of *cis*- and *trans*-forms together with small amounts of nonbridged species in soln. Deep-red leaflets (Et₂O or C₆H₆/hexane). Mp 102-3°, 98-9°.

Reynolds, L.T. *et al*, *J. Inorg. Nucl. Chem.*, 1959, **9**, 86 (*synth*)
McArdle, P.A. *et al*, *J. Chem. Soc. (A)*, 1969, 1498 (*synth*, *ir*)
Gaosow, O.A. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 5817 (*synth*, *pmr*, *cmr*)
Blake, M.R. *et al*, *Org. Mass Spectrom.*, 1978, **13**, 20 (*ms*)

C₁₆H₁₄Fe₂O₄ Fe-01410

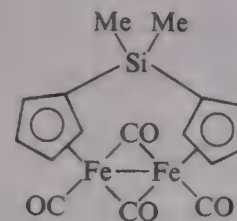
Di-μ-carbonyldicarbonyl[(1,2,3,4,5-η)-2,4-cycloheptadien-1-yl](η⁵-2,4-cyclopentadien-1-yl)diiron
Di-μ-carbonyldicarbonylcycloheptadienylium-π-cyclopentadienyldiiron, 8Cl. Tetracarbonyl(η⁵-cycloheptadienyl)-(η⁵-cyclopentadienyl)diiron. (Cycloheptadienyl)(cyclopentadienyl)diiron tetracarbonyl



M 381.978

C₁₆H₁₄Fe₂O₄Si Fe-01411

Di-μ-carbonyldicarbonyl[μ-[(1,2,3,4,5-η:1',2',3',4',5'-η)-(dimethylsilylene)bis(2,4-cyclopentadien-1-ylidene)]]diiron, 9Cl
[42830-83-1]



M 410.064
Dark-red plates.

Weaver, J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1439 (*struct*)

C₁₆H₁₅BFe Fe-01412

(η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6-η)-1-phenylboratabenzene]iron, 10Cl
[65774-56-3]
As (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6-η)-1-methylboratabenzene]iron, Fe-00766 with

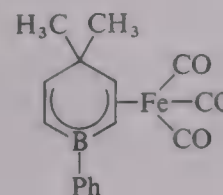
R = Ph

M 273.952
Red cryst. Mp 77.5-78.5°.

Herberich, G.E. *et al*, *J. Organomet. Chem.*, 1978, **144**, C1 (*synth*, *ms*, *pmr*, *nmr*)

C₁₆H₁₅BFeO₃ Fe-01413

Tricarbonyl[(2,3,5,6-η)-1,4-dihydro-4,4-dimethyl-1-phenylborin]iron, 10Cl
Tricarbonyl(4,4-dimethyl-1-phenyl-1-bora-2,5-cyclohexadiene)iron
[62980-53-4]

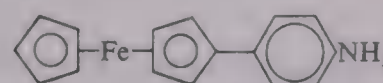


M 321.950
Golden-yellow cryst. (pentane). Mp 85.5°, dec. >200°. Bp_{0.001} 60° subl.

Herberich, G.E. *et al*, *Chem. Ber.*, 1977, **110**, 760 (*synth*, *pmr*, *nmr*, *ir*, *ms*)

C₁₆H₁₅FeN Fe-01414

(4-Aminophenyl)ferrocene, 9Cl
4-Ferrocenylaniline
[32994-56-2]



M 277.148
Yellow needles (EtOH). Mp 159-160.5°.

B, HCl: Mp 165-70° dec. Subl. without dec. *in vacuo*.

Ac:

C₁₈H₁₇FeNO M 319.185

Pale-yellow leaflets (EtOH). Mp 300-2° dec.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci.*

Khim., 1955, **102**, 535 (*synth, deriv*)

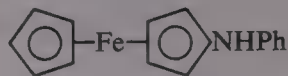
Little, W.F. *et al*, *J. Org. Chem.*, 1960, **25**, 1979 (*synth*)

C₁₆H₁₅FeN

Fe-01415

N-Phenylaminoferrocene

N-Phenylferrocenylamine. (Anilinocyclopentadienyl)-cyclopentadienyliron. Anilinoferrocene



M 277.148

Cryst. Mp 69.5-70.5°.

Benzoyl:

C₂₃H₁₉FeNO M 381.256

Cryst. Mp 177°.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci.*

Khim., 1964, 922 (*synth*)

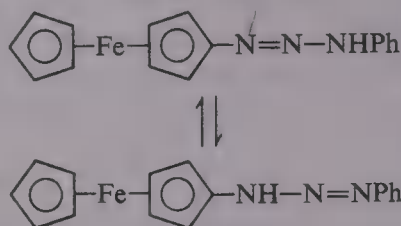
C₁₆H₁₅FeN₃

Fe-01416

(3-Phenyl-1-triazenyl)ferrocene

Cyclopentadienyl[(3-phenyl-1-triazeno)cyclopentadienyl]iron. [(Ferrocenyldiazo)amino]benzene.

Benzenediazoaminoferrocene



M 305.162

Exists as tautomeric mixt. of 1-triazenyl and 2-triazenyl compds. Dark-ruby cryst. (hexane). Mp 120-2° dec.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci.*

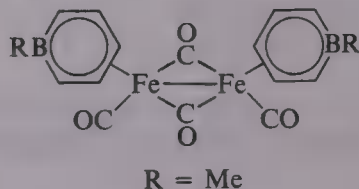
Khim., 1963, **150**, 321; 1964, **159**, 1334 (*synth, ir*)

C₁₆H₁₆B₂Fe₂O₄

Fe-01417

Di-μ-carbonylbis[(1,2,3,4,5,6-η)-1-methylboratabenzene]diiron, 9Cl

Di-μ-carbonyldicarbonylbis(1-methylborinato)diiron [54853-78-0]



R = Me

M 405.614

Violet plates. Mp 130° dec. Subl. at 80° *in vacuo*.

Herberich, G. *et al*, *Chem. Ber.*, 1974, **107**, 3780 (*synth, pmr, ir, ms*)

Huttner, G. *et al*, *Chem. Ber.*, 1974, **107**, 3786 (*struct*)

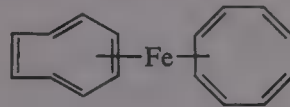
C₁₆H₁₆Fe

Fe-01418

(η⁶-1,3,5,7-Cyclooctatetraene)(η⁴-1,3,5,7-cyclooctatetraene)-iron

Bis(1,3,5,7-cyclooctatetraene)iron

[12184-52-0]



M 264.149

Fluxional molecule. Olefin oligomerisation catalyst. Air-sensitive shiny-black needles (pentane). Mp 98-9° dec. Dec. by chlorinated solvents.

Carbonaro, A. *et al*, *Tetrahedron Lett.*, 1967, **22**, 2037 (*synth, pmr*)

Allegra, G. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 4455 (*struct*)

Carbonaro, A. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 4453 (*pmr, uv, ir*)

Inorg. Synth., 1974, **15**, 2 (*synth, ir, pmr*)

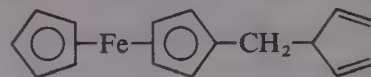
Mann, B.E. *J. Chem. Soc., Dalton Trans.*, 1978, 1761 (*cmr*)

C₁₆H₁₆Fe

Fe-01419

(2,4-Cyclopentadien-1-ylmethyl)ferrocene

(Ferrocenylmethyl)cyclopentadiene



M 264.149

Prob. a mixt. of positional isomers. Red oil. Bp_{0.15} 104°.

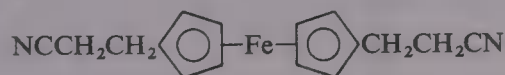
Osgerby, J.M. *et al*, *J. Chem. Soc.*, 1961, 4604.

C₁₆H₁₆FeN₂

Fe-01420

1,1'-Bis(2-cyanoethyl)ferrocene, 9Cl

[37408-54-1]



M 292.163

Yellow cryst. (hexane/Et₂O). Mp 69°.

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **92**, 341

(*synth, ir, ms, pmr, cmr*)

C₁₆H₁₆FeO

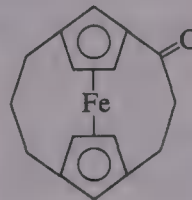
Fe-01421

[3][3](1,3)Ferrocenophan-1-one

1,1'-(1-Oxo-1,3-propanediyl)-3,3'-(1,3-propanediyl)-ferrocene, 9Cl. [3](1,1')[3](3,3')Ferrocenophane-6-one.

3,3'-(α-Ketotrimethylene)-1,1'-trimethyleneferrocene

[59124-91-3]



M 280.149

Orange-yellow cryst. (MeOH aq.). Mp 114-5° (106-8°).

Schlögl, K. *et al*, *Monatsh. Chem.*, 1962, **93**, 1309 (*synth, uv*)

Rinehart, K.L., Jr. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 970

(*synth, ir, uv, pmr*)

Crawford, W. *et al*, *J. Organomet. Chem.*, 1976, **105**, 341

(*synth, pmr*)

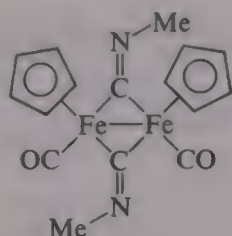
Hisatome, M. *et al*, *J. Organomet. Chem.*, 1976, **107**, 87 (*synth*)

C₁₆H₁₆Fe₂N₂O₂

Fe-01422

Dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)bis(isocyanomethane)diiron

[42892-73-9]



M 380.009

Dark brown-black cryst. Exists as rapidly interconverting mixt. of isomers in soln. but as *anti-trans* form in solid state.Adams, R.D. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 6589 (*pmr*)Adams, R.D. *et al*, *Inorg. Chem.*, 1974, **13**, 249 (*pmr*, *ir*)Cotton, F.A. *et al*, *Inorg. Chem.*, 1974, **13**, 253 (*struct*)Ennis, M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 1251 (*ir*, *pmr*, *cmr*, *synth*)C₁₆H₁₆Fe₂O₃

Fe-01423

μ-Carbonyldicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)-μ-propylidenediironBis(η⁵-cyclopentadienyl)-μ-propylidenediiron tricarbonyl. Tricarbonylbis(η⁵-cyclopentadienyl)-μ-propylidenediiron

[81616-54-8]

As μ-Carbonyldicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)-μ-ethylidiron, Fe-01336 with

M 367.995

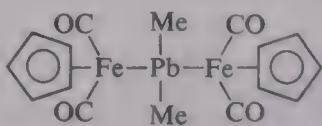
Orange-red solid. Mp 170-1° dec.

Kao, S.C. *et al*, *Organometallics*, 1982, **1**, 911 (*synth*, *ir*, *pmr*, *ms*)C₁₆H₁₆Fe₂O₄Pb

Fe-01424

Bis[(cyclopentadienyl)dicarbonyliron]dimethyllead

Tetracarbonyldi-π-cyclopentadienyl[μ-(dimethylplumbylene)]diiron, 8Cl



M 591.194

Orange cryst. Mp 120-30° dec.

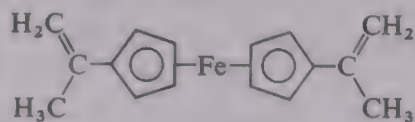
Hein, F. *et al*, *Z. Anorg. Allg. Chem.*, 1947, **254**, 138; **255**, 125 (*synth*)Biryukov, B.P. *et al*, *J. Struct. Chem.*, 1968, **9**, 821 (*cryst struct*)C₁₆H₁₈Fe

Fe-01425

1,1'-Bis(1-methylethenyl)ferrocene, 9Cl

Bis(2-propenyl-π-cyclopentadienyl)iron. 1,1'-Diisopropenylferrocene

[12289-78-0]



M 266.165

Red plates (pet. ether). Mp 59-61°. Readily polymerised.

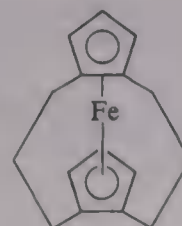
Knox, G.R. *et al*, *J. Chem. Soc.*, 1961, 4610 (*synth*)Hisatome, M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1973, 199 (*synth*)C₁₆H₁₈Fe

Fe-01426

[3][3](1,2)Ferrocenophane

1,1':2,2'-Bis(1,3-propanediyl)ferrocene, 9Cl. [3](1,1')-[3](2,2')Ferrocenophane. 1,1':2,2'-Bis(trimethylene)ferrocene

[38117-82-7]



M 266.165

Yellow cryst. (hexane). Mp 216-8°, 191-2° (dimorph.).

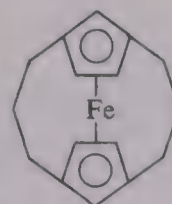
Schlögl, K. *et al*, *Monatsh. Chem.*, 1962, **93**, 1328 (*ir*)Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 970 (*synth*, *pmr*)Hillman, M. *et al*, *J. Organomet. Chem.*, 1972, **42**, 123 (*pmr*)Nagy, A.G. *et al*, *CA*, 1976, **84**, 134742 (*mössbauer*)C₁₆H₁₈Fe

Fe-01427

[3][3](1,3)Ferrocenophane

1,1':3,3'-Bis(1,3-propanediyl)ferrocene, 9Cl. 1,1':3,3'-Bis(trimethylene)ferrocene. [3](1,1')[3](3,3')-Ferrocenophane

[12092-08-9]



M 266.165

Yellow cryst. (hexane). Mp 88-91.5°.

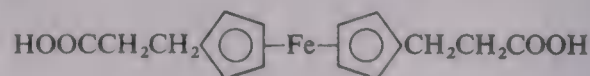
Schlögl, K. *et al*, *Monatsh. Chem.*, 1962, **93**, 1309 (*synth*)Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 970 (*synth*, *pmr*)Paul, I.C., *J. Chem. Soc., Chem. Commun.*, 1966, 377 (*cryst struct*)Nagy, A.G. *et al*, *CA*, 1976, **84**, 134742 (*mössbauer*)C₁₆H₁₈FeO₄

Fe-01428

1,1'-Ferrocenedipropionic acid

1,1'-Bis(2-carboxyethyl)ferrocene, 9Cl

[59495-81-7]



M 330.163

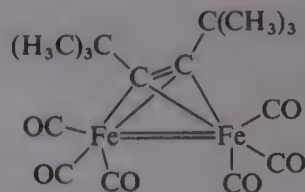
Yellow cryst. (EtOH aq.). Mp 142-5°.

Schlögl, K. *et al*, *Angew. Chem.*, 1960, **72**, 38.Schlögl, K. *et al*, *Monatsh. Chem.*, 1960, **91**, 79 (*synth*)Hisatome, M. *et al*, *J. Organomet. Chem.*, 1976, **107**, 87 (*synth*, *ir*)

C₁₆H₁₈Fe₂O₆

Fe-01429

Hexacarbonyl[μ-(3,4-η:3,4-η)-2,2,5,5-tetramethyl-3-hex-
yne]diiron, 10Cl
Hexacarbonyl(di-tert-butylacetylene)diiron
[57142-18-4]



M 418.009

Green-black cryst. (pentane).

Cotton, F.A. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 1774 (*synth*, *struct*, *ir*)C₁₆H₁₉BFeINO₂

Fe-01430

(1-tert-Butyl-3-methyl-2-phenyl-1H-1,2-azaborol-3-yl-
B²,N¹)dicarbonylidoiron
Dicarbonyl[(3,4,5-η)-1-(1,1-dimethylethyl)-2,3-dihy-
dro-3-methyl-2-phenyl-1H-1,2-azaborol-3-yl-B²,N¹]-
iodoiron, 10Cl
[75059-85-7]

As [(3,4,5-
η)-1-tert-Butyl-2,3-dihydro-2-methyl-1H-1,2-azaborol-3-y
l-B²,N¹]iodoiron, Fe-00637 with

R = Ph, R' = CH₃

M 450.893

Brown plates (pet. ether). Mp 95-6°.

Schulze, J. *et al*, *Chem. Ber.*, 1980, **113**, 2348 (*synth*, *ir*, *pmr*, *nmr*, *cryst struct*)C₁₆H₁₉FeO⁺

Fe-01431

[(1,2,3,4,5-η)-1-Acetyl-2,4-cyclopentadi-
en-1-yl][(1,2,3,4,5,6-η)-1,3,5-trimethylbenzene]iron(1+)
(Acetyl-π-cyclopentadienyl)(mesitylene)iron(1+)
As (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6-
η)-1,3,5-trimethylbenzene]iron(1+), Fe-01235 with

R = COCH₃

M 283.173 (ion)

Tetraphenylborate:

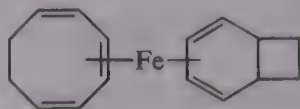
C₄₀H₃₉BFeO M 602.405

Light-orange solid. Sol. EtOH. Mp 197-8° dec.

Nesmeyanov, A.N. *et al*, *Tetrahedron Lett.*, 1963, 1725; *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1965, **160**, 1327 (*synth*)Astruc, D. *et al*, *Tetrahedron*, 1976, **32**, 245 (*ir*)C₁₆H₂₀Fe

Fe-01432

[(2,3,4,5-η)-Bicyclo[4.2.0]octa-2,4-dien-
e][(1,2,3,4,5,6-η)-1,3,5-cyclooctatriene]iron, 9Cl
[12212-69-0]

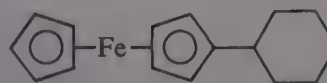


M 268.181

Brown cryst. (hexane). Mp 86-8°. Bp 60-5° subl. *in vacuo*.Müller, J. *et al*, *J. Organomet. Chem.*, 1966, **5**, 275 (*synth*, *pmr*, *ir*)Huttner, G. *et al*, *Chem. Ber.*, 1974, **107**, 156 (*struct*)C₁₆H₂₀Fe

Fe-01433

Cyclohexylferrocene, 9Cl
Ferrocenylcyclohexane
[34889-17-3]

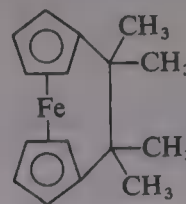


M 268.181

Brown-orange solid. Mp 39-41°. Bp₅ 157-62°.Vishnaykova, T.P. *et al*, *Zh. Obshch. Khim.*, 1963, **33**, 3865 (*synth*)Falk, H. *et al*, *J. Organomet. Chem.*, 1973, **55**, 191 (*synth*, *pmr*)C₁₆H₂₀Fe

Fe-01434

1,1,2,2-Tetramethyl[2]ferrocenophane
1,1'-(1,1,2,2-Tetramethyl-1,2-ethanediyl)ferrocene, 9Cl.
1,1'-(Tetramethylethylene)ferrocene
[32799-03-4]



M 268.181

Red cryst. Mp 168-9°, 129-30° (dimorph.). Bp₈ 130° subl.Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 4111 (*synth*, *ir*, *uv*, *pmr*)U.S.P., 3 063 974, (1962); *CA*, **58**, 11404 (*synth*)Laing, M.B. *et al*, *Acta Crystallogr.*, 1965, **19**, 373 (*cryst struct*)Tan, T.-S. *et al*, *J. Chem. Soc., Chem. Commun.*, 1975, 771 (*synth*)Koshutin, V.I., *Zh. Obshch. Khim.*, 1976, **46**, 1185 (*synth*)C₁₆H₂₀FeO₂

Fe-01435

Ferrocenehexanoic acid
(5-Carboxypentyl)ferrocene, 9Cl. ε-Ferrocenylcaproic
acid
[33039-39-3]

As Ferrocenepentanoic acid, Fe-01346 with

n = 5

M 300.180

Yellow plates (Et₂O/pentane). Mp 92-3° (86-90°).Polymorph from Et₂O-pentane mp 85-86°.

Me ester:

C₁₇H₂₂FeO₂ M 314.207

Yellow cryst. (hexane). Mp 20-3°.

Et ester:

C₁₈H₂₄FeO₂ M 328.233

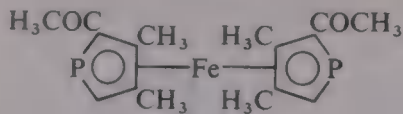
Yellow cryst. (hexane). Mp 27.5-29°.

Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 3420 (*synth*, *ir*)Roberts, D.T. *et al*, *J. Am. Chem. Soc.*, 1967, **89**, 6156 (*synth*, *ir*, *pmr*, *ms*)Heydenhaus, D. *et al*, *Z. Chem. (Leipzig)*, 1973, **13**, 295Bin Din, L. *et al*, *Tetrahedron Lett.*, 1979, 4783 (*synth*)

C₁₆H₂₀FeO₂P₂

Fe-01436

Bis[1-[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-2-yl]ethanon-ato]iron, 10Cl
2,2'-Diacetyl-3,3',4,4'-tetramethyl-1,1'-diphosphaferr-
ocene
[78247-01-5]



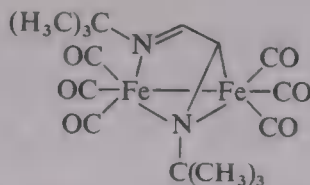
M 362.127

Two diastereoisomers known.

Low-melting-form [73153-32-9]Cryst. (CS₂). Mp 128°.**High-melting-form** [73176-96-2]Cryst. (CS₂). Mp 134°.De Lauzon, G. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 994 (*synth*, *ir*, *pmr*, *nmr*)De Lauzon, G. *et al*, *Nouv. J. Chim.*, 1980, **4**, 683; *CA*, **95**, 43291 (*synth*)C₁₆H₂₀Fe₂N₂O₆

Fe-01437

Hexacarbonyl[μ -(η^2 -*N,N'*-1,2-ethanediylidenebis[2-methyl-2-propanamine]-*N,N'*)]diiron, 10Cl
Hexacarbonyl[glyoxalbis(tert-butylimine)]diiron. Hex-
acarbonyl(2,2,6,6-tetramethyl-3,6-diaza-3,5-octadiene)-
diiron
[65045-67-2]

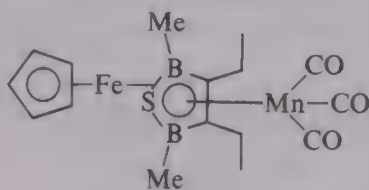


M 448.038

Frühauf, H.W. *et al*, *Angew. Chem.*, 1978, **90**, 56 (*synth*, *pmr*, *struct*, *ir*)Staal, L.H. *et al*, *J. Organomet. Chem.*, 1981, **204**, 101; **206**, 99 (*ir*, *pmr*, *cmr*)C₁₆H₂₁B₂FeMnO₃S

Fe-01438

Tricarbonyl[(η^5 -2,4-cyclopentadien-1-yl)iron][μ -[(1,2,3,4,5- η :1,2,3,4,5- η)-3,4-diethyl-2,5-dihydro-2,5-dimethyl-1,2,5-thiadiborole]]manganese, 10Cl
[66921-71-9]



M 425.805

Green air-stable cryst. Mp 194°.

Siebert, W. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1978, **17**, 527 (*synth*, *pmr*, *nmr*, *ir*, *ms*)C₁₆H₂₁Fe

Fe-01439

(η^6 -Benzene)(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclo-
pentadien-1-yl]iron, 10Cl
[76747-90-5]

As (η^6 -Benzene)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-
00733 withR = CH₃, R' = H

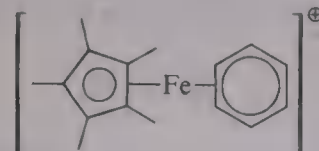
M 269.189

Paramagnetic 19-electron complex. Deep ivory-green
soln., stable at -20°. Yields dimer Bis[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl-
][μ -[(1,2,3,4,5- η :1',2',3',4',5'- η)[bi-2,4-cyclohexadi-
en-1-yl]-6,6'-diyl]]diiron, Fe-02073 on removal of sol-
vent.

Hamon, J.-R. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 758 (*synth*,
mössbauer, *polarog*)C₁₆H₂₁Fe[⊕]

Fe-01440

(η^6 -Benzene)(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclo-
pentadien-1-yl]iron(1+), 10Cl
[76747-92-7]



M 269.189 (ion)

Hexafluorophosphate: [76747-93-8].

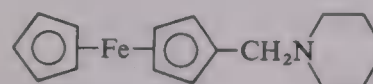
C₁₆H₂₁F₆FeP M 414.153

Canary-yellow needles (EtOH). Mp ~307° dec.

Hamon, J.R. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 758 (*synth*, *ir*,
pmr, *cmr*)C₁₆H₂₁FeN

Fe-01441

(1-Piperidinylmethyl)ferrocene, 9Cl
1-(Ferrocenylmethyl)piperidine.
Piperidinomethylferrocene
[57811-70-8]



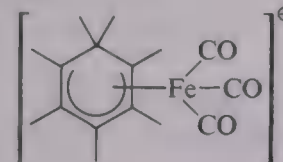
M 283.196

Yellow leaflets (EtOH aq. or ligroin). Mp 86-7°.

Osgerby, J.M. *et al*, *J. Chem. Soc.*, 1958, 656 (*synth*)Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*,
1962, 1997 (*synth*, *ir*)Beckwith, A.L.J. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1975,
1818 (*synth*, *pmr*, *ms*)C₁₆H₂₁FeO₃[⊕]

Fe-01442

Tricarbonyl[(1,2,3,4,5- η)-1,2,3,4,5,6,6-heptamethyl-2,4-cy-
clohexadien-1-yl]iron(1+), 9Cl
Tricarbonyl(heptamethylcyclohexadienylium)iron(1+),
8Cl
[50292-74-5]



M 317.187 (ion)

Tetrachloroferrate:

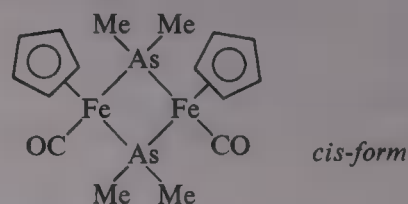
C₁₆H₂₁Cl₄Fe₂O₃ M 514.846Fine yellow needles. Sol. H₂O. Gives
hexamethylbenzene on boiling in HCl.Koptug, V.A. *et al*, *Tetrahedron Lett.*, 1968, 673 (*synth*, *ir*,
pmr)Rezvukhin, A.I. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*,
1973, 705 (*cmr*)Gatilov, Yu.V. *et al*, *Zh. Strukt. Khim.*, 1975, **16**, 855; *CA*, **84**,
52596c (*cryst struct*)

C₁₆H₂₂As₂Fe₂O₂

Fe-01443

Dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)bis[μ-(dimethylarsino)]diiron

Dicarbonyldi-π-cyclopentadienylbis[μ-(dimethylarsino)]diiron. Bis[cyclopentadienylcarbonyliron(dimethylarsine)]. Di-μ-(dimethylarsenido)-di-π-cyclopentadienyldiiron [65465-11-4]



M 507.886

cis-formBrown needles (C₆H₆). Mp 277-8°.**trans-form**Brown cryst. (C₆H₆/hexane). Mp 273-7°.Hayter, R.G., *J. Am. Chem. Soc.*, 1963, **85**, 3120 (*synth*, *ir*, *pmr*)Mueller, R. *et al*, *Chem. Ber.*, 1977, **110**, 3910 (*synth*)Bublitz, D.E., *Can. J. Chem.*, 1964, **42**, 2381 (*synth*)Bublitz, D.E., *J. Organomet. Chem.*, 1969, **16**, 149 (*synth*, *pmr*, *glc*, *ir*)C₁₆H₂₂Fe

Fe-01447

1,1',3-Triethylferrocene(η⁵-1,3-Diethylcyclopentadienyl)(η⁵-ethylcyclopentadienyl)iron

[33056-71-2]

M 270.197

Orange liq. Bp₇₆₄ 299°.Bublitz, D.E., *Can. J. Chem.*, 1964, **42**, 2381 (*synth*)Bublitz, D.E., *J. Organomet. Chem.*, 1969, **16**, 149 (*synth*, *pmr*, *glc*, *ir*)C₁₆H₂₂Fe

Fe-01448

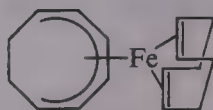
1,2,3-Triethylferrocene, 8Cl(η⁵-Cyclopentadienyl)(η⁵-1,2,3-triethylcyclopentadienyl)iron

M 270.197

Orange liq. Bp 310°.

Bublitz, D.E., *J. Organomet. Chem.*, 1969, **16**, 149 (*synth*, *pmr*, *glc*, *ir*)C₁₆H₂₂Fe

Fe-01444

[(1,2,5,6-η)-1,5-Cyclooctadiene][(1,2,3,4,5,6-η)-1,3,5-cyclooctatriene]iron

M 270.197

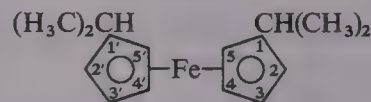
Red cryst. (hexane). Mp 86-8°. Bp 65-70° subl. *in vacuo*.Fischer, E.O. *et al*, *Z. Naturforsch., B*, 1963, **18**, 413 (*synth*, *pmr*, *ir*)Fischer, E.O. *et al*, *Chem. Ber.*, 1963, **96**, 3217 (*pmr*)C₁₆H₂₂Fe

Fe-01445

1,1'-Diisopropylferrocene

1,1'-Bis(1-methylethyl)ferrocene, 9Cl. 1,1'-Di-2-propylferrocene. Bis(isopropylcyclopentadienyl)iron

[12126-34-0]



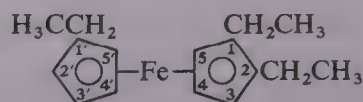
M 270.197

Orange-red liq. Bp_{0.025} 91°.Knox, G.R. *et al*, *J. Chem. Soc.*, 1961, 4610 (*synth*)El Murr, N., *J. Organomet. Chem.*, 1976, **112**, 189 (*pmr*)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1977, **237**, 143 (*cmr*)C₁₆H₂₂Fe

Fe-01446

1,1',2-Triethylferrocene(η⁵-1,2-Diethylcyclopentadienyl)(η⁵-ethylcyclopentadienyl)iron

[33056-09-6]



M 270.197

Orange liq. Bp₇₆₄ 302°.C₁₆H₂₂Fe

Fe-01449

1,2,4-Triethylferrocene(η⁵-Cyclopentadienyl)(η⁵-1,2,4-triethylcyclopentadienyl)iron

M 270.197

Orange liq. Bp 303°.

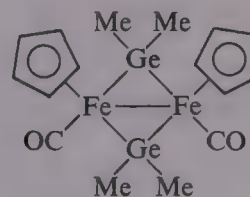
Bublitz, D.E., *J. Organomet. Chem.*, 1969, **16**, 149 (*synth*, *pmr*, *glc*, *ir*)C₁₆H₂₂Fe₂Ge₂O₂

Fe-01450

Dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)bis[μ-(dimethylgermylene)]diiron, 9Cl

Dicarbonyldi-π-cyclopentadienylbis[μ-(dimethylgermylene)]diiron

[41517-31-1]



M 503.223

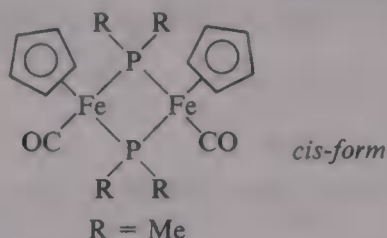
Red-brown solid.

Job, R.C. *et al*, *Inorg. Chem.*, 1973, **12**, 2514 (*synth*, *ir*, *pmr*, *ms*)

The symbol ► in Entries highlights hazard or toxicity information

C₁₆H₂₂Fe₂O₂P₂

Fe-01451

Dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)bis[μ-(dimethylphosphino)]diiron*Dicarbonyldi-π-cyclopentadienylbis[μ-(dimethylphosphino)]diiron, 8Cl.**Bis[cyclopentadienylcarbonyliron(dimethylphosphine)]*

M 419.990

cis-form [12277-43-9]Orange plates (C₆H₆). Mp 275-80°.*trans-form* [12277-44-0]Orange cryst. Mp 220-70°. Bp_{0.2} 130° subl.Hayter, R.G., *J. Am. Chem. Soc.*, 1963, **85**, 3120 (*synth, ir, pmr*)C₁₆H₂₄Fe

Fe-01452

Bis[(1,2,5,6-η)-1,5-cyclooctadiene]iron

[55823-33-1]



M 272.213

Stereochem. around Fe not certain. Versatile synth. intermed. Brown cryst., dec. > -20°. Green soln. in pentane.

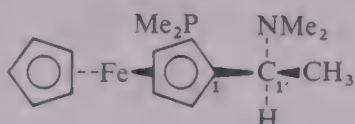
▷Pyrophoric in air

Mackenzie, R. *et al*, *J. Chem. Soc., Chem. Commun.*, 1974, 650 (*synth, use*)C₁₆H₂₄FeNP

Fe-01453

1-[1-(Dimethylamino)ethyl]-2-(dimethylphosphino)ferrocene, 9Cl*[α-[(2-Dimethylphosphino)ferrocenyl]ethyl]dimethylamine. MPFA*

[60816-99-1]



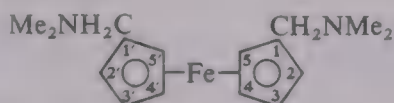
M 317.193

Asymmetric hydrogenation and hydrosilylation catalyst. $[\alpha]_D^{25} -134^\circ$ (c, 0.3 in CHCl₃).Hayashi, T. *et al*, *Tetrahedron Lett.*, 1974, 4405 (*synth, cd, use*)
Kumada, M. *et al*, *CA*, 1976, **85**, 143275.C₁₆H₂₄FeN₂

Fe-01454

1,1'-Bis[(dimethylamino)methyl]ferrocene*N,N,N',N'-Tetramethyl-1,1'-ferrocenebis(methylamine), 8Cl. Bis(N,N-dimethylaminomethyl-π-cyclopentadienyl)iron*

[1292-06-4]



M 300.226

Amber oil.

B,2MeI: Mp 260° dec.*Dipicrate*: Yellow cryst. (EtOH aq.). Mp 150° dec.Osgerby, J.M. *et al*, *J. Chem. Soc.*, 1961, 4604 (*synth, ir*)Pauson, P.L. *et al*, *J. Chem. Soc. (C)*, 1966, 251 (*synth, pmr*)C₁₆H₂₄FeN₂

Fe-01455

1,2-Bis[(dimethylamino)methyl]ferrocene, 9Cl

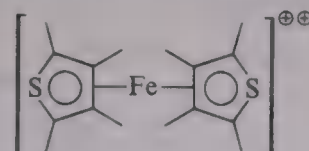
[32717-10-5]

M 300.226

Cryst. (pentane). Mp 81-2°.

Dixneuf, P. *et al*, *Bull. Soc. Chim. Fr.*, 1972, 2838 (*synth, ir, pmr*)C₁₆H₂₄FeS₂^{⊕⊕}

Fe-01456

Bis[(2,3,4,5-η)-tetramethylthiophene-S]iron(2+), 9Cl

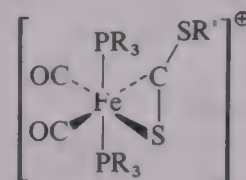
M 336.333 (ion)

Bis(hexafluorophosphate): [55906-07-5].C₁₆H₂₄F₂FeP₂S₂ M 436.277

Red cryst. Mp 100° dec.

Braitsch, D.M. *et al*, *J. Organomet. Chem.*, 1975, **84**, C37 (*synth, pmr, ir*)C₁₆H₂₅FeO₂P₂S₂[⊕]

Fe-01457

[(Benzylthio)thioxomethyl]dicarbonylbis(trimethylphosphine)iron(1+)*Dicarbonyl[[[(phenylmethyl)thio]thioxomethyl]bis(trimethylphosphine)iron(1+), 10Cl*R = Me, R' = CH₂Ph

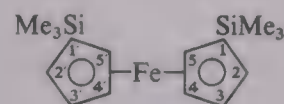
M 431.287 (ion)

Hexafluorophosphate: [76648-77-6].C₁₆H₂₅F₆FeO₂P₃S₂ M 576.251Orange cryst. (CH₂Cl₂/hexane). Mp 127-8°.Touchard, D. *et al*, *Inorg. Chem.*, 1981, **20**, 1811 (*synth, ir, pmr, cmr, struct*)C₁₆H₂₆FeSi₂

Fe-01458

1,1'-Bis(trimethylsilyl)ferrocene, 9Cl

[12189-86-5]

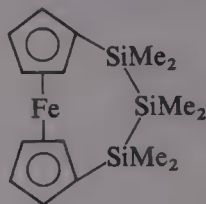


M 330.399

Dark orange-red mobile liq. Mp 16°. Bp_{0.06} 87-8°. n_D^{25} 1.5454. Light- and air-stable.Rausch, M. *et al*, *J. Org. Chem.*, 1957, **22**, 900 (*synth*)Clancy, D.J. *et al*, *Anal. Chem.*, 1962, **34**, 1839 (*ms*)Babare, L.V. *et al*, *Zh. Strukt. Khim.*, 1965, **6**, 783 (*pmr*)Kabanov, B.K. *et al*, *Zh. Obshch. Khim.*, 1972, **42**, 1749 (*synth*)

C₁₆H₂₆FeSi₃ Fe-01459

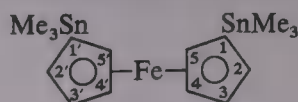
1,1'-(1,1,2,2,3,3-Hexamethyl-1,3-trisilanediy)ferrocene, 9Cl
1,1,2,2,3,3-Hexamethyl-1,2,3-trisila[3]ferrocenophane.
1,1'-(Hexamethyltrisilanylene)ferrocene
 [38670-85-8]



M 358.485

Dark liq. Bp₁ 141-4°.Kumada, M. *et al*, *J. Organomet. Chem.*, 1972, **43**, 293 (*synth*, *pmr*)**C₁₆H₂₆FeSn₂ Fe-01460**

1,1'-Bis(trimethylstannyl)ferrocene, 10Cl
 [70595-34-5]



M 511.608

Orange oil. Bp_{0.1} 280°.Dawoodi, Z. *et al*, *J. Organomet. Chem.*, 1979, **170**, 95 (*synth*, *pmr*)**C₁₆H₂₇FeO₄P Fe-01461**

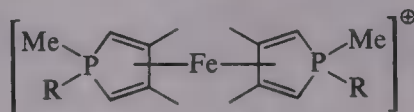
Tetracarbonyl(tributylphosphine)iron, 10Cl, 8Cl
 [18474-82-3]



M 370.208

Yellow solid or light-yellow oil. Bp_{0.1} 75°. Dec. slowly on contact with air.Strohmeier, W. *et al*, *Chem. Ber.*, 1969, **102**, 3613 (*synth*, *uv*)Alper, H. *et al*, *J. Organomet. Chem.*, 1972, **44**, 371 (*synth*, *ir*)Conder, H.L. *et al*, *J. Organomet. Chem.*, 1974, **67**, 93 (*synth*, *ir*)**C₁₆H₂₈FeP₂[⊕] Fe-01462**

Bis[(2,3,4,5-η)-1,1,3,4-tetramethyl-1H-phospholium]iron(1+), 10Cl



R = Me

M 338.192 (ion)

Paramagnetic 17-electron species. Analogue Bis[(2,3,4,5-η)-1-*tert*-butyl-1,3,4-trimethyl-1H-phospholium]iron(1+), Fe-01780 shows greater stability.*Iodide*: [78529-72-3].C₁₆H₂₈FeIP₂ M 465.096V. unstable green powder (THF). Sol. H₂O.Deschamps, B. *et al*, *Inorg. Chem.*, 1981, **20**, 3252 (*synth*)**C₁₆H₃₀B₁₈Fe[⊖] Fe-01463**

Bis[(7,8,9,10,11-η)-1,2,3,4,5,6,8,9,10,11-decahydro-7-phenyl-7,8-dicarbaundecaborato(2-)]ferrate(1-), 10Cl
Bis[decahydro-7-phenyl-π-7,8-dicarbaundecaborato(2-)]ferrate(1-)

As Bis[(7,8,9,10,11-η)-1,2,3,4,5,6,9,10,11-nonahydro-7,8-dimethyl-7,8-dicarbaundecaborato(2-)]ferrate(1-), Fe-00328 with

R = Ph, R' = H

M 472.840 (ion)

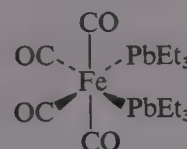
Paramagnetic. Reduced to a deep-blue ferrate (2-) species.

Tetramethylammonium salt: [12302-58-8]. Red cryst.

Mp >300°.

Hawthorne, M.F. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 879

(synth)

Ammeter, J.H. *et al*, *J. Magn. Reson.*, 1978, **30**, 299 (*esr*)**C₁₆H₃₀FeO₄Pb₂ Fe-01464****Tetracarbonylbis(triethylplumbyl)iron, 8Cl**

M 756.658

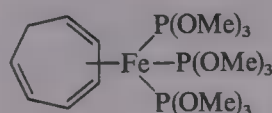
cis-form [18533-27-2]

Orange-yellow cryst.

Kahn, O. *et al*, *J. Organomet. Chem.*, 1967, **10**, 137 (*synth*, *ir*)Delbeke, F.T. *et al*, *J. Organomet. Chem.*, 1970, **25**, 219 (*ir*)**C₁₆H₃₅FeO₉P₃ Fe-01465**

[(1,2,3,4-η)-1,3,5-Cycloheptatriene]tris(trimethyl phosphite-P)iron, 10Cl

[71262-14-1]



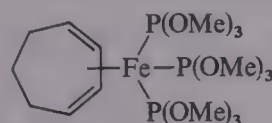
M 520.215

Fluxional molecule. Orange cryst. (pentane). Mp 216°.

Ittel, S.D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 3874 (*synth*, *pmr*, *cmr*, *nmr*, *ms*, *ir*)**C₁₆H₃₇FeO₉P₃ Fe-01466**

[(1,2,3,4-η)-1,3-Cycloheptadiene]tris(trimethyl phosphite-P)iron, 10Cl

[71262-07-2]



M 522.231

Fluxional. Yellow solid. Mp 216°.

Ittel, S.D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 3874 (*synth*, *pmr*, *nmr*, *cmr*)**C₁₆H₄₈FeO₁₅P₅[⊕] Fe-01467****Methylpentakis(trimethyl phosphite-P)iron(1+), 9Cl**

M 691.262 (ion)

Hexafluorophosphate: [55086-70-9].C₁₆H₄₈F₆FeO₁₅P₆ M 836.226

Cryst. (THF).

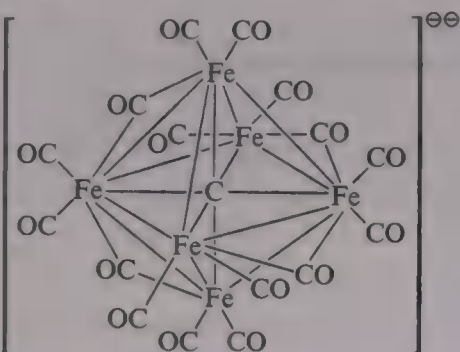
Tetraphenylborate: [70318-04-6].

C₄₀H₆₈BFeO₁₅P₅ M 1010.494
Mp 143°.

Harris, T.V. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 6966 (*synth*, *pmr*)
Ittel, S.D. *et al*, *Inorg. Chim. Acta*, 1979, **33**, 101 (*synth*, *nmr*)

C₁₇Fe₆O₁₆²⁻ **Fe-01468**
[μ₆-(Carbon)]tri-μ-carbonyltridecacarbonylhexaferrate(2-), 9Cl

Tri-μ-carbonyltridecacarbonyl-μ₆-carbonhexaferrate(2-), 8Cl. Hexadecacarbonylmethanetetraylhexaferrate(2-), 8Cl
[59200-87-2]



M 795.259 (ion)

Air-sensitive. Acidification gives (Carbon)-pentadecacarbonylpentairon, Fe-01372.

Bis(tetramethylammonium) salt: [11112-31-5].

C₂₅H₂₄Fe₆N₂O₁₆ M 943.550
Red-black cryst. (MeOH).

Bis(tetraethylammonium) salt: [11087-55-1].

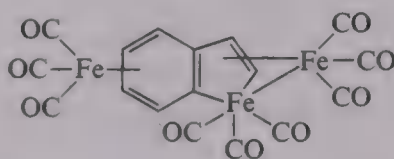
C₃₃H₄₀Fe₆N₂O₁₆ M 1055.765
Black cryst. (EtOH/MeOH).

Churchill, M.R. *et al*, *J. Am. Chem. Soc.*, 1971, **93**, 3073 (*synth*, *struct*, *ir*)

Stewart, R.P. *et al*, *J. Organomet. Chem.*, 1971, **32**, C49 (*synth*, *ir*)

Churchill, M.R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 2410 (*struct*)

C₁₇H₆Fe₃O₉ **Fe-01469**
Nonacarbonyl[μ³-(η²:η⁴:η⁴)-1,2-ethanediyl-1,2-phenylene-]triiron
1,1,1-Tricarbonylferraindenebis(tricarbonyliron)
[36645-14-4]



M 521.770

Purple-brown cryst. Mp 126°.

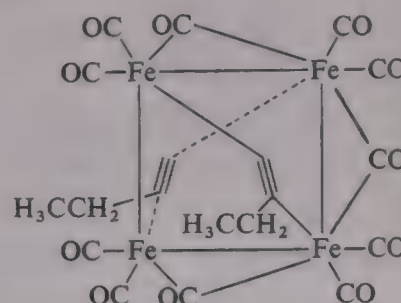
Victor, R. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 1241 (*synth*, *ir*, *pmr*)

Herbstein, F.H. *et al*, *Acta Crystallogr., Sect. B*, 1977, **33**, 3304 (*struct*)

C₁₇H₈Fe₄O₁₁ **Fe-01470**

Tri-μ-carbonyloctacarbonyl-bis[μ₄-(1-η:1,2-η:1,2-η:2-η)-1-methyl-1,2-ethenediyl]]tetrairon, 10Cl

Undecacarbonylbis(μ₄-propyne)tetrairon. Bis(μ₄-propyne)-undecacarbonyl-quadro-tetrairon
[68368-93-4]



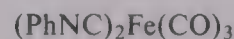
M 611.632

Struct. contains 1 symmetrical and 2 asymmetrical CO bridges. Microcryst. (hexane).

Sappa, E. *et al*, *J. Chem. Soc., Dalton Trans.*, 1978, 419 (*struct*, *synth*, *ir*, *ms*)

C₁₇H₁₀FeN₂O₃ **Fe-01471**

Tricarbonylbis(isocyanobenzene)iron, 9Cl
Tricarbonylbis(phenyl isocyanide)iron
[58452-24-7]



M 346.125

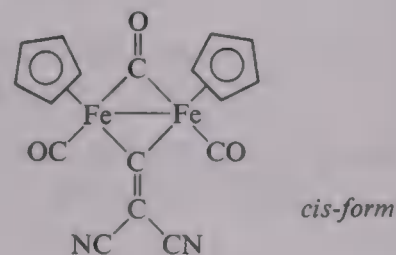
No phys. props. recorded. Yellow tolyl analogues well-characterised.

Alper, H. *et al*, *J. Organomet. Chem.*, 1972, **35**, C40.

Mosbaek, H. *et al*, *Acta Chem. Scand., Ser. A*, 1975, **29**, 957 (*mössbauer*)

C₁₇H₁₀Fe₂N₂O₃ **Fe-01472**

μ-Carbonyldicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)μ-(dicyanoethenylidene)diiron, 9Cl
Tetracarbonylbis(η⁵-cyclopentadienyl)(dicyanoethenylidene)diiron
[49624-79-5]



cis-form

M 401.972

cis-form [36496-61-4]

Red-orange cryst. (CH₂Cl₂/hexane). Mp ca. 260° dec. Bp_{0.1} 150° subl.

trans-form [36496-80-7]

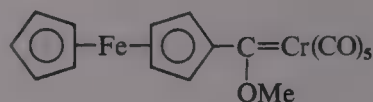
Red-violet cryst. (CH₂Cl₂/hexane). Mp 255° dec. Bp_{0.1} 150°.

King, R.B. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 1811 (*synth*, *ir*, *pmr*)

Kirchner, R.M. *et al*, *J. Organomet. Chem.*, 1974, **82**, 243 (*cryst struct*)

C₁₇H₁₂CrFeO₆ Fe-01473

Pentacarbonyl(ferrocenylmethoxymethylene)chromium, 9Cl
(Methoxyferrocenylcarbene)pentacarbonylchromium
[31725-05-0]



M 420.121

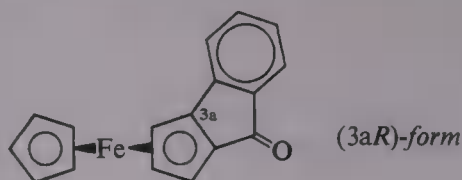
Purple cryst. (C₆H₆/heptane). Mp 170° dec. (softens at 135°).

Connor, J.A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 1470
(*synth*, *pmr*, *ir*, *uv*, *ms*)

Rausch, M.D. *et al*, *J. Organomet. Chem.*, 1973, **51**, 1 (*synth*, *pmr*, *ir*)

C₁₇H₁₂FeO Fe-01474

(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3a,8a- η)-1,8-dihydro-8-oxocyclopenta[*a*]inden-1-yl]iron, 9Cl
2,3-Ferrocenoindenone. 2,3-Ferroçoindenone
[1294-16-2]



M 288.128

(3aS)-form

(R)_{planar-form}
[α]_D²⁰ +570° (c, 0.2 in EtOH).

(3aR)-form

(S)_{planar-form}
Violet oil. [α]_D²⁰ -420° (c, 0.02 in EtOH). This is the (1*R*)-enantiomer acc. to Schlögl's alternative numbering scheme.

(±)-form

Dark purple-red needles (pet. ether). Mp 105-106.2°.

Bublitz, D.E. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 1845 (*synth*, *pmr*, *ir*)

Cais, M. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 5607 (*synth*, *uv*, *ir*)

Lehner, H. *et al*, *Monatsh. Chem.*, 1970, **101**, 895 (*synth*, *pmr*, *resoln*, *uv*, *cd*)

C₁₇H₁₂FeO₃ Fe-01475

Tricarbonyl[(1,2,3,8- η)-1-phenyl-1,3,5,7-cyclooctatetraene]iron, 9Cl
[57142-21-9]

As Tricarbonyl[(1,2,3,8- η)-1-methyl 1,3,5,7-cyclooctatetraene]iron, Fe-00859 with

R = Ph

M 320.127

Exhibits valence tautomerism in soln. at r.t. Dark-red cryst. Mp 65-65.5°. Bp_{0.01} 53° subl.

Paquette, L.A. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 4658 (*synth*, *pmr*)

C₁₇H₁₂FeO₄ Fe-01476

Tricarbonyl(1-benzoyl-1,3,5-cycloheptatriene)iron
Tricarbonyl[[*(3,4,5,6- η)-1,3,5-cycloheptatrien-1-yl*]-phenylmethanone]iron, 10Cl

[36630-33-8]

As Tricarbonyl[(3,4,5,6- η)-1,3,5-cycloheptatriene-1-carboxaldehyde]iron, Fe-00682 with

R = COPh

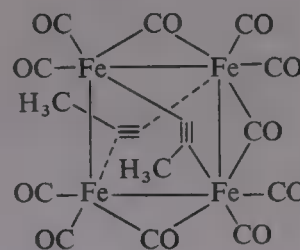
M 336.126

Golden cryst. (pentane). Mp 95°.

Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 456
(*synth*, *pmr*, *ir*)

C₁₇H₁₂Fe₃O₈ Fe-01477

Octacarbonyl[μ_3 -[(η^2 : η^2 : η^4)-5-ethylidene-1,3-dimethyl-1,3-pentadiene-1,5-diyl]]triiron, 10Cl
Octacarbonyl- μ_3 -(1,3,6-trimethyl-1,3,5-hexatriene-1,5-diyl)triiron
[61917-02-0]



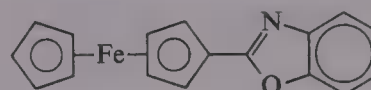
M 511.818

Dark-green cryst. (heptane). Sol. CCl₄. Mp 135° dec. Stereochemically non-rigid in soln.

Sappa, E. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 1843
(*synth*, *cryst struct*, *cmr*, *pmr*, *ir*, *ms*)

C₁₇H₁₃FeNO Fe-01478

2-Benzoxazolylferrocene
2-Ferrocenylbenzoxazole
[34801-92-8]

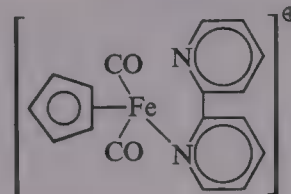


M 303.143

Shvekhgimer, G.A. *et al*, *CA*, 1972, **77**, 88633.

C₁₇H₁₃FeN₂O₂⁺ Fe-01479

(2,2'-Bipyridine-*N*)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-iron(1+), 9Cl
(2,2-Bipyridyl)dicarbonyl- π -cyclopentadienyliron(1+)



M 333.149 (ion)

Iodide: [60584-04-5].

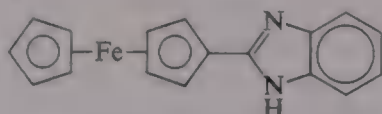
C₁₇H₁₃FeIN₂O₂ M 460.053

Yellow solid (Me₂CO/Et₂O).

Tripathi, S.C. *et al*, *Transition Met. Chem.*, 1976, **1**, 58 (*synth*, *ir*)

C₁₇H₁₄FeN₂

1*H*-Benzimidazol-2-ylferrocene, 9Cl
2-Ferrocenylbenzimidazole
[34830-88-1]



M 302.158

Shvehgeimer, G.A. *et al*, *CA*, 1972, **77**, 88633.

Fe-01480

C₁₇H₁₄FeO₂

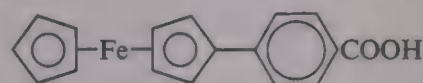
3-Phenylferrocenecarboxylic acid
1-Carboxy-3-phenylferrocene, 9Cl
[56800-59-0]
M 306.143

Rapić, V. *et al*, *J. Organomet. Chem.*, 1975, **94**, 87.

Fe-01485

C₁₇H₁₄FeO₂

4-Ferrocenylbenzoic acid
4-Carboxyphenylferrocene



M 306.143

Golden-yellow cryst. Mp 240-6°, 253-7° dec.

Me ester: 4-Carbomethoxyphenylferrocene.C₁₈H₁₆FeO₂ M 320.170

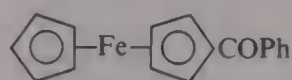
Orange cryst. (heptane). Mp 124-5°.

Nesmeyanov, A.N., *Proc. R. Soc. (London)*, Ser. A, 1958, **246**, 495 (*synth*)Little, W.F. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 1376 (*synth*)

Fe-01484

C₁₇H₁₄FeO

Benzoylferrocene, 9Cl
Ferrocenyl phenyl ketone
[1272-44-2]



M 290.144

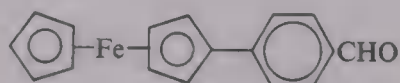
Dark-red needles (MeOH). Mp 111.5-112°.

Oxime:C₁₇H₁₅FeNO M 305.159Orange-red needles (C₆H₆/hexane). Mp 160° dec.Rausch, M. *et al*, *J. Org. Chem.*, 1957, **22**, 903 (*synth*)Weliky, N. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 2742 (*synth*, *ir*)Mulay, L.N. *et al*, *J. Inorg. Nucl. Chem.*, 1960, **16**, 23 (*nmr*)Lillya, C.P. *et al*, *J. Organomet. Chem.*, 1971, **32**, 371 (*pmr*)Eberhardt, R. *et al*, *Monatsh. Chem.*, 1973, **104**, 1409 (*hplc*)Nesmeyanov, A.N. *et al*, *Zh. Strukt. Khim.*, 1973, **14**, 49 (*cmr*)

Fe-01481

C₁₇H₁₄FeO

(4-Formylphenyl)ferrocene, 10Cl
p-Ferrocenylbenzaldehyde, 8Cl
[1272-43-1]



M 290.144

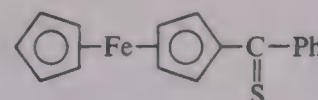
Red cryst. Mp 136.5-137°.

Shu-Chien Shih, *et al*, *CA*, 1965, **63**, 13314 (*synth*)Tana, S. *et al*, *Chem. Zvesti*, 1969, **23**, 343; 1975, **29**, 526 (*synth*, *pmr*)Gronowitz, S. *et al*, *Org. Magn. Reson.*, 1975, **7**, 372 (*cmr*)

Fe-01482

C₁₇H₁₄FeS

(Phenylthioxomethyl)ferrocene, 10Cl
Ferrocenyl phenyl thioketone. Thiobenzoylferrocene.
Ferrocenyl(phenyl)methanethione.
Benzenecarbonothioylferrocene
[70616-55-6]



M 306.205

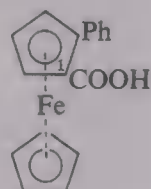
Blue cryst. Mp 68-9°.

Kursanov, D.S. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1979, 869 (*synth*, *pmr*, *ir*, *ms*)Petrovskii, P.V. *et al*, *J. Organomet. Chem.*, 1981, **221**, 177 (*cmr*)

Fe-01486

C₁₇H₁₄FeO₂

2-Phenylferrocenecarboxylic acid
1-Carboxy-2-phenylferrocene, 9Cl
[31985-36-1]

(1*R*)-form

M 306.143

(1*R*)-form[α]_D²⁰ +130° (c, 0.2 in EtOH).

(±)-form

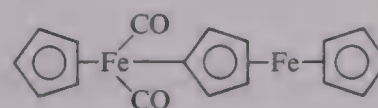
Orange cryst. (MeOH). Mp 218-20°.

Lehner, H. *et al*, *Monatsh. Chem.*, 1970, **101**, 895 (*synth*, *resoln*, *pmr*, *uv*)Märkl, G. *et al*, *Tetrahedron Lett.*, 1974, 4365 (*hplc*)Rapić, V. *et al*, *J. Organomet. Chem.*, 1975, **94**, 87 (*synth*)

Fe-01483

C₁₇H₁₄Fe₂O₂

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)ferrocenyliron, 9Cl
π-Cyclopentadienyl-σ-ferrocenyliron dicarbonyl
[11067-36-0]



M 361.990

Air-stable orange cryst. (heptane). Mp 108-9° (100-106°).

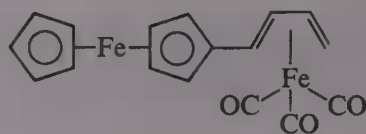
Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1971, 892; 1972, 1600; 1973, 2796 (*synth*, *pmr*, *ir*, *mössbauer*)Pannell, K.H. *et al*, *Inorg. Chem.*, 1976, **15**, 2671 (*synth*, *ms*, *ir*, *pmr*)

Fe-01487

C₁₇H₁₄Fe₂O₃

Fe-01488

[(η⁴-1,3-Butadienyl)ferrocene]tricarbonyliron, 9Cl
 Tricarbonyl[η⁴-(1-ferrocenyl-1,3-butadiene)]iron
 [43039-17-4]



M 377.990

Cryst. (hexane). Mp 43-4°.

Nametkin, N.S. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*,
 1974, 890 (*synth*, *ir*, *pmr*)

Nametkin, N.S. *et al*, *J. Organomet. Chem.*, 1976, **107**, 377
 (*synth*)

C₁₇H₁₅Fe[⊕]

Fe-01489

(η⁶-Benzene)[(1,2,3,4,5-η)-1-phenyl-2,4-cyclopentadien-1-yl]iron(1+)

As (η⁶-Benzene)(η⁵-1-chloro-2,4-cyclopentadien-1-yl)-
 iron(1+), Fe-00703 with

X = Ph

M 275.153 (ion)

Tetraphenylborate:

C₄₁H₃₅BFe M 594.385Pale-yellow cryst. (Me₂CO). Dec. at 240-1°.

Tetrafluoroborate:

C₁₇H₁₅BF₄Fe M 361.956Pale-yellow solid (CH₂Cl₂/Et₂O). Dec. at 122-4°.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci.*
Khim., 1965, **160**, 1327 (*synth*)

C₁₇H₁₅Fe[⊕]

Fe-01490

[(1,2,3,4,5,6-η)-1,1'-Biphenyl](η⁵-2,4-cyclopentadien-1-yl)iron(1+), 9Cl

(Cyclopentadienyl)(phenylbenzene)iron(1+)

[32758-65-9]

As (η⁶-Bromobenzene)(η⁵-2,4-cyclopentadien-1-yl)-
 iron(1+), Fe-00702 with

X = Ph

M 275.153 (ion)

Tetrafluoroborate: [1295-40-5].

C₁₇H₁₅BF₄Fe M 361.956Yellow cryst. (MeCN/Et₂O). Dec. at 134-5°.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci.*
Khim., 1966, **166**, 607 (*synth*)

Morrison, W.H. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 3603 (*synth*,
cmr)

Astruc, D. *et al*, *Bull. Soc. Chim. Fr.*, 1975, 2571 (*pmr*)

Morrison, W.H. *et al*, *Inorg. Chem.*, 1975, **14**, 500 (*uv*)

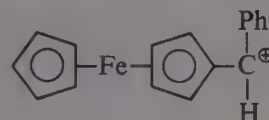
Solodovnikov, S.P. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci.*
Khim., 1981, **258**, 415 (*uv*)

Steele, B.R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 529
 (*cmr*)

C₁₇H₁₅Fe[⊕]

Fe-01491

Ferrocenylphenylmethylium(1+), 9Cl
 [12117-38-3]



M 275.153 (ion)

Tetrafluoroborate: [41579-27-5].

C₁₇H₁₅BF₄Fe M 361.956Blue-black. Sol. CHCl₃.

Hexafluorophosphate: [71163-85-4].

C₁₇H₁₅F₆FeP M 420.117

Dark-red cryst.

Perchlorate: [1277-69-6].

C₁₇H₁₅ClFeO₄ M 374.603

Light-brown cryst. Insol. AcOH, Et₂O, C₆H₆. Dia-
 magnetic.

Cais, M. *et al*, *J. Org. Chem.*, 1965, **30**, 1148 (*synth*, *ir*)

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci.*
Khim., 1965, **160**, 355 (*synth*)

Hisatome, M. *et al*, *Tetrahedron*, 1971, **27**, 2101 (*pmr*)

Tirouflet, J. *et al*, *J. Organomet. Chem.*, 1973, **50**, 241 (*polarog*,
uv)

Williams, G.H. *et al*, *J. Organomet. Chem.*, 1973, **60**, C53 (*cmr*)

Ortaggi, G. *et al*, *Gazz. Chim. Ital.*, 1979, **109**, 13 (*synth*, *uv*, *ir*)

Boev, V.I. *et al*, *Zh. Obshch. Khim.*, 1980, **50**, 2520 (*synth*)

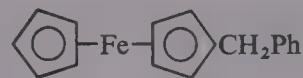
Ceccon, A. *et al*, *J. Organomet. Chem.*, 1980, **185**, 231 (*synth*,
pmr)

C₁₇H₁₆Fe

Fe-01492

Benzylferrocene

(Phenylmethyl)ferrocene, 9Cl. Ferrocenylphenylmethane
 [32994-54-0]



M 276.160

Yellow cryst. (ligroin). Mp 76°.

Hallam, B.F. *et al*, *J. Chem. Soc.*, 1956, 3030 (*synth*)

Rausch, M.D. *et al*, *J. Org. Chem.*, 1957, **22**, 903 (*synth*)

Schlögl, K. *et al*, *Monatsh. Chem.*, 1961, **92**, 921 (*synth*)

Koridze, A.A. *et al*, *Koord. Khim.*, 1981, **7**, 605 (*cmr*)

Shul'pin, G.B., *Zh. Obshch. Khim.*, 1981, **51**, 2152 (*synth*)

C₁₇H₁₆Fe

Fe-01493

(η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-6-phenyl-2,4-cy-
 clohexadien-1-yl]iron, 9Cl

[57412-84-7]

As (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-6-methyl-
 2,4-cyclohexadien-1-yl]iron, Fe-00934 with

R = Ph

M 276.160

endo-form

Orange cryst. (pentane). Mp 83-5°.

exo-form

Red cryst. (pet. ether). Mp 157-8°.

Jones, D. *et al*, *J. Chem. Soc.*, 1962, 4458 (*synth*, *ir*, *pmr*)

El Murr, N., *J. Chem. Soc., Chem. Commun.*, 1981, 251 (*synth*)

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1981, **210**, 103
 (*synth*, *pmr*, *ir*, *ms*)

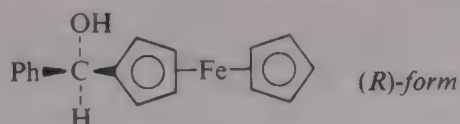
C₁₇H₁₆Fe **Fe-01494****(η^5 -2,4-Cyclopentadien-1-yl)((1,2,3,4,5- η)-1-phenyl-2,4-cyclohexadien-1-yl)iron, 10Cl**

[78379-01-8]

As [(1,2,3,4,5- η)-1-Bromo-2,4-cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00728 with

M 276.160

Deep-red cryst. (pentane). Mp 68-70°. Isol. as a mixt. of 1-, 2- and 3-isomers.

Nesmeyanov, A.N. *et al.*, *J. Organomet. Chem.*, 1981, **210**, 103 (synth, pmr, ir, ms)**C₁₇H₁₆FeO** **Fe-01495****(Hydroxyphenylmethyl)ferrocene, 9Cl****(α -Hydroxybenzyl)ferrocene. Ferrocenylphenylcarbinol**

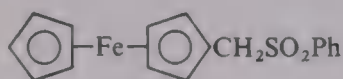
M 292.160

(R)-form [56586-69-7][α]_D +27° (53% optically pure).**(S)-form** [57884-64-7][α]_D²⁵ -92° (c, 0.4 in C₆H₆).**(±)-form** [1277-68-5]

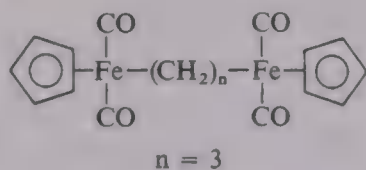
Yellow cryst. (pet. ether). Mp 81-2°.

Weliky, N. *et al.*, *J. Am. Chem. Soc.*, 1957, **79**, 2742 (synth)Nesmeyanov, A.N., *Zh. Strukt. Khim.*, 1973, **14**, 49 (cmr)Cerichelli, G. *et al.*, *J. Organomet. Chem.*, 1974, **78**, 241 (pmr)Kimny, T. *et al.*, *C.R. Hebd. Seances Acad. Sci.*, 1974, **278**, 1157.Abramovitch, R.A. *et al.*, *Inorg. Chem.*, 1975, **14**, 3085 (mössbauer)Allenmark, S. *et al.*, *Chem. Scr.*, 1975, **7**, 97 (synth, uv)Allenmark, S. *et al.*, *Tetrahedron Lett.*, 1975, 3175 (resoln)Ogierman, L. *et al.*, *J. Chromatogr.*, 1980, **198**, 536 (tlc)**C₁₇H₁₆FeO₂S** **Fe-01496****[(Phenylsulfonyl)methyl]ferrocene, 9Cl****(Ferrocenylmethyl)phenyl sulfone**

[34831-23-7]



M 340.219

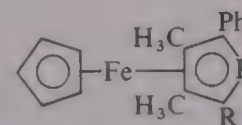
Yellow needles (Et₂O). Mp 163-5°.Uher, M. *et al.*, *Collect. Czech. Chem. Commun.*, 1971, **36**, 3056 (synth)Evans, J.B. *et al.*, *J. Chem. Soc., Perkin Trans. 1*, 1972, 2502 (synth, pmr)**C₁₇H₁₆Fe₂O₄** **Fe-01497** **μ -1,3-Propanediyltetracarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron, 9Cl**

M 396.005

Orange. Mp 103-5°.

King, R.B., *Inorg. Chem.*, 1963, **2**, 531 (synth, pmr, ir)Pope, L. *et al.*, *J. Organomet. Chem.*, 1976, **112**, 309 (cryst struct)**C₁₇H₁₇FeP** **Fe-01498****(η^5 -2,4-Cyclopentadien-1-yl)((1,2,3,4,5- η)-3,4-dimethyl-2-phenyl-1H-phosphol-1-yl)iron, 10Cl****2-Phenyl-3,4-dimethylphosphaferrocene**

[64815-18-5]



R = H

M 308.142

Red-orange solid. Mp 114°.

Mathey, F., *J. Organomet. Chem.*, 1977, **139**, 77 (synth, ms, cmr, pmr, nmr)**C₁₇H₁₉Fe₂N₃O** **Fe-01499****Carbonylbis(η^5 -2,4-cyclopentadien-1-yl)tris(isocyanomethane)diiron**

[78656-40-3]

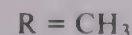


M 393.051

Exists as rapidly interconverting mixt. of isomers in soln.

Adams, R.D. *et al.*, *Inorg. Chem.*, 1974, **13**, 249 (pmr)Ennis, M., *et al.*, *J. Chem. Soc., Dalton Trans.*, 1981, 1251, (synth, pmr, ir, cmr)**C₁₇H₂₂Fe** **Fe-01500****(η^5 -2,4-Cyclopentadien-1-yl)((1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-6-methylene-2,4-cyclohexadien-1-yl)iron, 10Cl**

[70414-93-6]

As (η^5 -2,4-Cyclopentadien-1-yl)((1,2,3,4,5- η)-6-methylene-2,4-cyclohexadien-1-yl)iron, Fe-00890 with

M 282.208

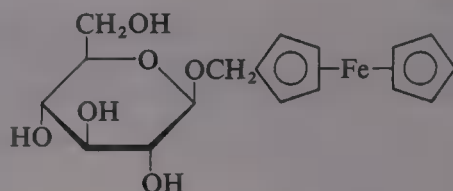
Red-black cryst. (pentane).

Astruc, D. *et al.*, *J. Am. Chem. Soc.*, 1979, **101**, 2240 (synth, pmr, cmr)Mariot, J.P. *et al.*, *CA*, 1980, **92**, 138172 (mössbauer)Hamon, J.-R. *et al.*, *J. Am. Chem. Soc.*, 1981, **103**, 2431 (struct, pmr, mössbauer)Green, J.C. *et al.*, *Organometallics*, 1983, **2**, 211 (pe)

C₁₇H₂₂FeO₆

Fe-01501

[(β-D-Glucopyranosyloxy)methyl]ferrocene, 9Cl
Hydroxymethylferrocene β-D-glucoside
[41370-97-2]



M 378.204

Yellow plates + 1H₂O(H₂O). Mp 135-6°. [α]_D²² -33.7°
(c, 1.0 in H₂O).

Tetra-Ac:

C₂₅H₃₀FeO₁₀ M 546.353

Orange cryst (C₆H₆/hexane). Mp 183-5°. [α]_D²¹
-11.7° (c, 1.0 in CHCl₃).

de Belder, A.N. *et al*, *J. Chem. Soc.*, 1961, 4464 (*synth*)C₁₇H₂₃Fe

Fe-01502

(η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6-η)-1,2,3,4,5,6-hexamethylbenzene]iron

[70414-92-5]

As (η⁶-Benzene)(η⁵-2,4-cyclopentadien-1-yl)iron, Fe-00733 with

R = H, R' = CH₃

M 283.216

Paramagnetic, 19 electron complex. Dark-green air-sensitive cryst. (pentane). Bp_{0.0002} 70° subl. μ_{eff} = 1.84 BM.

Astruc, D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 2240, 5445

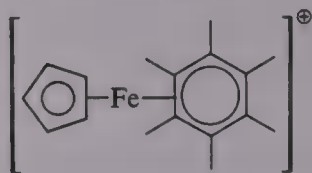
(synth, struct, ms, pmr, cmr, mössbauer)

Mariot, J.P. *et al*, *CA*, 1980, **92**, 138172 (mössbauer)Hamon, J.-R. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 758 (*synth*,*ir*, *uv*, *cmr*, *pmr*, *ms*, *esr*, mössbauer)Green, J.C. *et al*, *Organometallics*, 1983, **2**, 211 (mössbauer)C₁₇H₂₃Fe[⊕]

Fe-01503

(η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6-η)-hexamethylbenzene]iron(1+), 9Cl

[54688-69-6]



M 283.216 (ion)

Tetrafluoroborate: [70414-95-8].

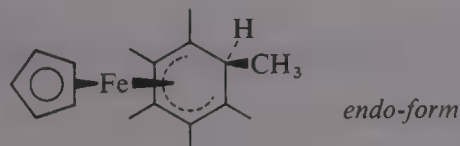
C₁₇H₂₃BF₄Fe M 370.019Orange solid (Me₂CO/Et₂O). Mp 215-7°.Khand, I.U. *et al*, *J. Chem. Soc. (C)*, 1968, 2257 (*synth*, *pmr*)Morrison, W.H. *et al*, *Inorg. Chem.*, 1975, **14**, 500 (*uv*)Steele, B.R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 529

(cmr)

C₁₇H₂₄Fe

Fe-01504

(η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-1,2,3,4,5,6-hexamethyl-2,4-cyclohexadien-1-yl]iron



endo-form

M 284.224

endo-form

Orange-red cryst. Mp 84-5°.

exo-form

Orange-red cryst. (pentane). Mp 67-9°.

Khand, I.U. *et al*, *J. Chem. Soc. (C)*, 1968, 2257; 1969, 2024

(synth, pmr, ir)

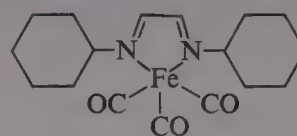
Hamon, J.-R. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 2431 (*synth*)Green, J.C. *et al*, *Organometallics*, 1983, **2**, 211 (*pe*)C₁₇H₂₄FeN₂O₃

Fe-01505

Tricarbonyl[*N,N'*-1,2-ethanediylidenebis(cyclohexanamine)-*N,N'*]iron, 10Cl

Tricarbonyl[1,4-bis(cyclohexyl)-1,4-diaza-1,3-butadiene]iron

[54446-63-8]



M 360.235

Red cryst. (hexane).

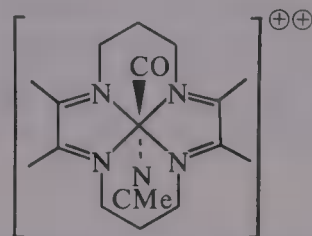
tom Dieck, H. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1977, **14**, 251

(synth, ir, pmr)

Frühauf, H.W. *et al*, *Angew. Chem.*, 1978, **90**, 56 (*synth*, *ir*,*pmr*)Shi, Q. *et al*, *Organometallics*, 1982, **1**, 1033 (*synth*, *ir*, *uv*)C₁₇H₂₇FeN₅O^{⊕⊕}

Fe-01506

(Acetonitrile)carbonyl(2,3,9,10-tetramethyl-1,4,8,11-tetraazacyclotetradeca-1,3,8,10-tetraene-*N*¹,*N*⁴,*N*⁸,*N*¹¹)iron-(2+), 9Cl



M 373.280 (ion)

Bis(hexafluorophosphate): [43223-43-4].

C₁₇H₂₇F₁₂FeN₅OP₂ M 663.209

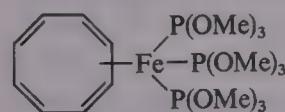
Orange microcryst.

Baldwin, D.A. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 5152 (*synth*,mössbauer, *ir*, *pmr*)C₁₇H₃₅FeO₉P₃

Fe-01507

[(1,2,3,4-η)-1,3,5,7-Cyclooctatetraene]tris(trimethyl phosphite-*P*)iron, 10Cl

[68193-51-1]

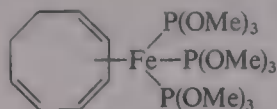


M 532.226

Fluxional molecule. Orange cryst. Mp 122°.

Felkin, H. *et al*, *J. Organomet. Chem.*, 1978, **157**, C64 (*synth*)Ittel, S.D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 3874 (*synth*,*pmr*, *cmr*, *nmr*, *ir*, *ms*)

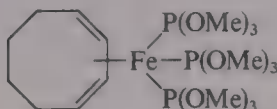
C₁₇H₃₇FeO₉P₃ **Fe-01508**
 [(1,2,3,4-η)-1,3,5-Cyclooctatriene]tris(trimethyl phosphite-*P*)iron, 10Cl
 [71262-13-0]



M 534.242
 Fluxional. Orange cryst. (pentane).

Ittel, S.D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 3874 (*synth*, *pmr*, *cmr*, *nmr*)

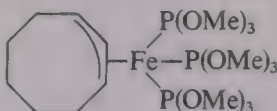
C₁₇H₃₉FeO₉P₃ **Fe-01509**
 [(1,2,3,4-η)-1,3-Cyclooctadiene]tris(trimethyl phosphite-*P*)iron, 10Cl
 [59034-03-6]



M 536.258
 Fluxional. No phys. props. reported.

Ittel, S.D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 3874 (*synth*, *pmr*, *cmr*, *nmr*)

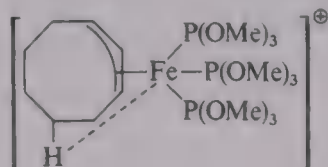
C₁₇H₄₀FeO₉P₃ **Fe-01510**
 [(1,2,3-η)-2-Cycloocten-1-yl]tris(trimethyl phosphite-*P*)iron, 10Cl
 [72171-44-9]



M 537.266
 Air-sensitive, thermally stable dark-blue cryst. (hexane).
 Paramagnetic.

Ittel, S.D. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 3264 (*synth*, *esr*)
 Harlow, R.L. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 7496 (*struct*)

C₁₇H₄₀FeO₉P₃⁺ **Fe-01511**
 [(1,2,3-η)-2-Cycloocten-1-yl]tris(trimethyl phosphite-*P*)iron(1+), 10Cl
 [66060-15-9]



M 537.266 (ion)
 Tetrafluoroborate: [69039-47-0].

C₁₇H₄₀BF₄FeO₉P₃ M 624.069
 Yellow cryst. (CH₂Cl₂). Mp 141°.

Ittel, S.D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 6905 (*synth*, *pmr*, *cmr*)

Williams, J.M. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 981 (*struct*)

C₁₈F₁₀Fe₂O₆S₂ **Fe-01512**
 Hexacarbonylbis[μ-(pentafluorobenzenethiolato)]diiron, 9Cl
 [21747-16-0]

As Hexacarbonylbis[μ-(methanethiolato)]diiron, Fe-00281 with

R = C₆F₅

M 677.992

Obt. as a mixt. of *cis/trans* isomers (1:6). Light-red needles (pentane). Mp 141° dec. Bp 100° subl. *in vacuo*.

Cooke, J. *et al*, *J. Chem. Soc. (A)*, 1968, 170 (*synth*, *nmr*, *ir*, *ms*)

Kostiner, E. *et al*, *J. Organomet. Chem.*, 1968, **15**, 383 (*synth*, *nmr*, *ir*, *ms*, *mössbauer*)

C₁₈F₁₀Fe₂O₆Se₂ **Fe-01513**
 Hexacarbonylbis[μ-(pentafluorobenzeneselenolato)]diiron, 8Cl
 [25930-04-5]

As Hexacarbonylbis[μ-(trifluoromethaneselenolato)]diiron, Fe-00241 with

R = C₆F₅

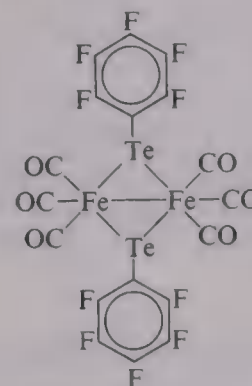
M 771.792

Mp 158-9°. Mixt. of *cis*- and *trans*-isomers.

Kostiner, E. *et al*, *J. Organomet. Chem.*, 1968, **15**, 383; 1969, **19**, 233 (*synth*, *ir*, *mössbauer*)

Reddy, M.L.N. *et al*, *Nature (London)*, 1968, **217**, 740 (*synth*)

C₁₈F₁₀Fe₂O₆Te₂ **Fe-01514**
 Hexacarbonylbis[μ-(pentafluorobenzenetellurolato)]diiron, 8Cl
 [25879-68-9]



M 869.072

Characterised spectroscopically.

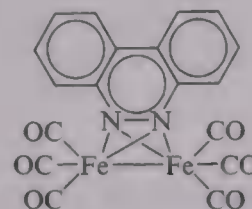
Kostiner, E. *et al*, *J. Organomet. Chem.*, 1968, **15**, 383 (*ir*)

Reddy, M.L.N. *et al*, *Nature (London)*, 1968, **217**, 740 (*synth*)

C₁₈H₈Fe₂N₂O₆ **Fe-01515**
 [μ-(5,6-Dihydrobenzo[c]cinnolinato-N⁵,N⁶:N⁵,N⁶)]hexacarbonyldiiron, 9Cl

Hexacarbonyl[μ-[5,6-dihydrobenzo[c]cinnolinato(2-)]diiron, 8Cl. [μ-(Benzo[c]cinnoline-N⁵,N⁶:N⁵,N⁶)]hexacarbonyldiiron, 9Cl

[27081-59-0]



M 459.965

Dark-red cryst. (Me₂CO). Mp 145° dec.

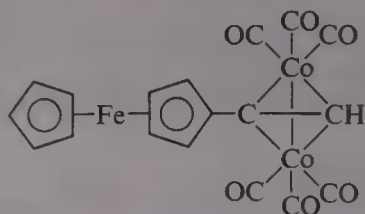
Campbell, C.D. *et al*, *J. Chem. Soc., Chem. Commun.*, 1969, 537 (*synth*)

Doedens, R.J., *Inorg. Chem.*, 1970, **9**, 429 (*struct*)
 Bennett, R.P., *Inorg. Chem.*, 1970, **9**, 2184 (*synth, ir, mössbauer, pmr*)
 Albini, A. *et al*, *J. Organomet. Chem.*, 1975, **101**, 231 (*use*)

C₁₈H₁₀Co₂FeO₆ Fe-01516

Hexacarbonyl[μ-[(1,2-η:1,2-η)-ethynyl]ferrocene]]dicobalt, 9Cl

[56665-21-5]



M 495.987

Dark-green air-stable cryst. (MeOH under N₂). Mp 64-6°.

Pittman, C.U. *et al*, *J. Organomet. Chem.*, 1975, **90**, 203 (*synth, ms, ir, pmr*)

C₁₈H₁₀Fe₂N₂O₆ Fe-01517

Hexacarbonyl[μ-[1,2-diphenylhydrazinato(2-)]]]diiron

Hexacarbonyl[μ-[hydrazobenzenato(2-)]]]diiron, 8Cl.
 (μ-Azobenzene)hexacarbonyldiiron

[18989-05-4]

As Hexacarbonyl[μ-[1,2-dimethylhydrazinato(2-)]]]diiron, Fe-00280 with

R = Ph

M 461.981

Orange needles (CH₂Cl₂/pet. ether). Mp 116-7°.

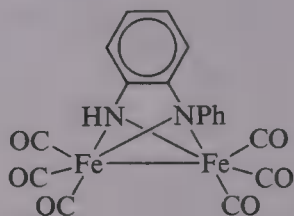
Dekker, M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1967, 1243 (*synth*)

C₁₈H₁₀Fe₂N₂O₆ Fe-01518

Hexacarbonyl[μ-[N-phenyl-1,2-benzenediaminato(2-)]]]diiron

Hexacarbonyl[μ-[N-phenyl-o-phenylenediaminato(2-)]]]diiron, 8Cl. Hexacarbonyl(o-semidinato)diiron

[18716-94-4]



M 461.981

Red-brown cryst. (pet. ether). Mp 163-4° (158.5-159°).

Baikie, P.E. *et al*, *Inorg. Chim. Acta*, 1967, **1**, 55 (*struct*)

Pauson, P.L. *et al*, *J. Chem. Soc. (C)*, 1969, 1534 (*synth, ir, pmr, ms*)

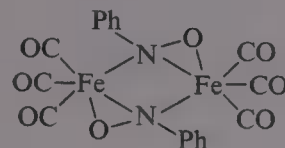
Alper, H. *et al*, *Can. J. Chem.*, 1970, **48**, 1543 (*synth, ir, pmr*)

C₁₈H₁₀Fe₂N₂O₈ Fe-01519

Hexacarbonylbis[μ-[N-hydroxybenzenaminato(2-)-N:N,O]]diiron, 9Cl

Hexacarbonylbis[μ-(nitrosobenzene)]diiron, 8Cl

[29689-97-2]



M 493.980

Golden-yellow cryst. Mp 118-25° dec.

Koerner von Gustorf, E. *et al*, *Z. Naturforsch., B*, 1966, **21**, 1152 (*synth, ir, uv*)

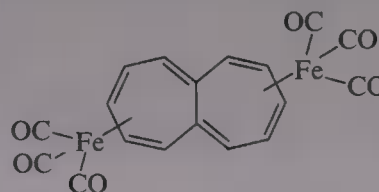
Frank, E. *et al*, *J. Organomet. Chem.*, 1970, **23**, 229 (*mössbauer*)

Mills, O.S. *et al*, *J. Chem. Soc. (A)*, 1971, 864 (*struct*)

C₁₈H₁₀Fe₂O₆ Fe-01520

Hexacarbonyl[μ-[(1,2,3,4-η:6,7,8,9-η)-heptalene]]diiron, 10Cl

[70629-73-1]



M 433.967

Deep-red rhombs (CCl₄) or brown needles (hexane). Mp 185° dec.

Stegemann, J. *et al*, *J. Organomet. Chem.*, 1979, **166**, 223.

Vogel, E. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1979, **18**, 545 (*synth, uv, ir, pmr*)

C₁₈H₁₀Fe₂O₆S₂ Fe-01521

Bis[μ-(benzenethiolato)]hexacarbonyldiiron, 9Cl

[15634-63-6]

As Hexacarbonylbis[μ-(methanethiolato)]diiron, Fe-00281 with

R = Ph

M 498.087

cis-form [72020-68-9]

syn-form

Carmine-red needles or red-orange prisms. Mp 140-1°.

Obt. as an inseparable mixt. with the *trans-form*.

trans-form [41543-39-9]

anti-form

See above.

Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1937, **233**, 353; 1964, **305**, 265 (*synth, ir*)

Kostiner, E. *et al*, *J. Organomet. Chem.*, 1968, **15**, 383 (*pmr, mössbauer, ir, ms*)

Kilner, M. *et al*, *J. Chem. Soc. (A)*, 1970, 634 (*synth*)

Davis, R.E. *et al*, *Cryst. Struct. Commun.*, 1972, **1**, 403 (*struct*)

Aime, S. *et al*, *Transition Met. Chem.*, 1979, **4**, 322 (*cmr*)

C₁₈H₁₀Fe₂O₆Se₂ Fe-01522

Bis[μ-(benzeneselenolato)]hexacarbonyldiiron, 9Cl

[25987-99-9]

As Hexacarbonylbis[μ-(methaneselenolato)]diiron, Fe-00282 with

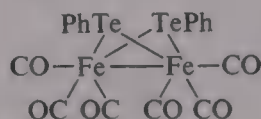
R = Ph

M 591.887

Ruby-red cryst. (hexane). Mp 94-6°.

Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1964, **329**, 92 (*synth*)Kostiner, E. *et al*, *J. Organomet. Chem.*, 1969, **19**, 233 (*mössbauer, ir*)Schermer, E.D. *et al*, *J. Organomet. Chem.*, 1971, **30**, 67 (*synth, ir, ms*)Kiener, V. *et al*, *J. Organomet. Chem.*, 1972, **42**, 447 (*synth, pmr, ir*)**C₁₈H₁₀Fe₂O₆Te₂****Fe-01523****Bis(μ-benzenetellurolato)hexacarbonyldiiron, 8Cl**

[33182-83-1]



M 689.167

Dark-red cryst. (CH₂Cl₂/hexane). Mp 104-6° dec.Kostiner, E. *et al*, *J. Organomet. Chem.*, 1968, **15**, 383 (*ir*)Schermer, E.D. *et al*, *J. Organomet. Chem.*, 1971, **30**, 67 (*synth, ms, ir*)**C₁₈H₁₂FeO₄****Fe-01524****Tricarbonyl[(O,1,2,3-η)-1,3-diphenyl-2-propen-1-one]iron, 9Cl****(Chalcone)iron tricarbonyl**

[38333-36-7]

As [(O,2,3,4-η)-3-Buten-2-one]tricarbonyliron, Fe-00205 with

R = R' = Ph

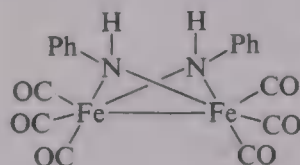
M 348.137

(E)-form [38720-23-9]

Bright orange-red cryst. (toluene). Mp 93° dec.

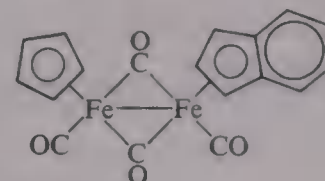
Brodie, A.M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 2031 (*synth, ir, pmr*)Koerner von Gustorf, E. *et al*, *Z. Naturforsch., B*, 1972, **27**, 392 (*synth, ir, pmr, uv*)Cardaci, G., *J. Am. Chem. Soc.*, 1975, **97**, 1412 (*ir*)**C₁₈H₁₂Fe₂N₂O₆****Fe-01525****Bis(μ-anilinato)hexacarbonyldiiron, 8Cl****Bis(μ-benzenaminato)hexacarbonyldiiron**

[18890-46-5]



M 463.997

Obt. as mixture of isomers. Orange solid. Mp 103°.

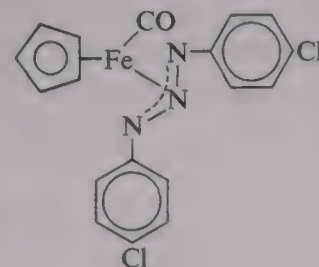
Dekker, M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1967, 1243 (*synth*)**C₁₈H₁₂Fe₂O₄****Fe-01526****Di-μ-carbonyldicarbonyl(η⁵-2,4-cyclopentadien-1-yl-1,2,3,3a,7a-η)-1H-inden-1-yl]diiron****Tetracarbonyl(η⁵-cyclopentadienyl)(η⁵-indenyl)diiron**

M 403.984

Mixt. of isomers. Mp 131-3°.

McArdle, P.A. *et al*, *J. Chem. Soc. (A)*, 1969, 1498 (*synth, ir*)**C₁₈H₁₃Cl₂FeN₃O****Fe-01527****[1,3-Bis(4-chlorophenyl)-1-triazenato-N¹,N³]carbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, 10Cl**

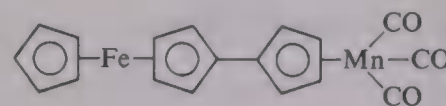
[72859-65-5]



M 414.073

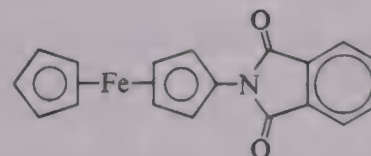
Red-brown cryst. (CH₂Cl₂/hexane). Corresponding bis(p-tolyl)triazenido complex also reported.Pfeiffer, E. *et al*, *Transition Met. Chem.*, 1979, **4**, 385 (*synth, ir, pmr*)**C₁₈H₁₃FeMnO₃****Fe-01528****Tricarbonyl[(1,2,3,4,5-η)-ferrocenyl-2,4-cyclopentadien-1-yl]manganese, 9Cl****Cymantrenylferrocene**

[37048-11-6]



M 388.084

Orange cryst. (EtOH aq.). Mp 108-109.5°.

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1972, 735; 1980, 1171 (*synth*)Nesmeyanov, A.N. *et al*, *Zh. Strukt. Khim.*, 1973, **14**, 49 (*cmr*)**C₁₈H₁₃FeNO₂****Fe-01529****(1H-Isoindole-1,3-dione-2-yl)ferrocene****Phthalimidoferrocene. N-Ferrocenylphthalimide**

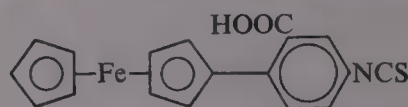
M 331.153

Red cryst. (EtOH). Mp 156-7°.

Nesmeyanov, A.N. *et al*, *Chem. Ber.*, 1960, **93**, 2717; *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1962, 2073 (*synth*)Nefedov, V.A. *et al*, *Zh. Obshch. Khim.*, 1966, **36**, 122 (*synth*)

C₁₈H₁₃FeNO₂S**Fe-01530**

(2-Carboxy-4-isothiocyanatophenyl)ferrocene, 9Cl
 2-Ferrocenyl-5-isothiocyanatobenzoic acid
 [12277-55-3]



M 363.213

Hapten.

Franz, H. *et al*, *CA*, 1972, **76**, 151976 (*synth, use*)Mohr, J. *et al*, *CA*, 1973, **78**, 27747 (*use*)

Partial zwitterionic character. Undergoes nucleophilic substn. with various nucleophiles. Deep-green cryst. (Et₂O at -78°). Mp 105-7°. Mod. air-stable in cryst. state, v. air-sensitive in soln.

Helling, J.F. *et al*, *J. Organomet. Chem.*, 1977, **141**, 99 (*synth, ir, pmr*)Johnson, J.W. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 1427 (*synth, cmr, pmr*)Sutherland, R.G. *et al*, *J. Organomet. Chem.*, 1979, **181**, 411 (*struct, use*)**C₁₈H₁₃FeNO₃****Fe-01531**

Tricarbonyl[η⁴-N-(3-phenyl-2-propenylidene)benzenamine]-iron, 9Cl

Tricarbonyl(N-cinnamylideneaniline)iron

[12112-97-9]

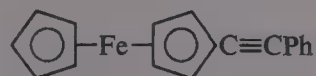
As (η⁴-N-2-Butenylideneaniline)tricarbonyliron, Fe-01039 with

M 347.153

Orange-red needles (C₆H₆/heptane). Mp 108.5-109.5° dec., 122-4°.Otsuka, S. *et al*, *Inorg. Chem.*, 1967, **6**, 20 (*synth, ir, pmr*)Brodie, A.M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 2031 (*synth, uv*)de Cian, A. *et al*, *Acta Crystallogr., Sect. B*, 1972, **28**, 3264 (*struct*)Liebfritz, D. *et al*, *J. Organomet. Chem.*, 1976, **105**, 255 (*cmr*)**C₁₈H₁₄Fe****Fe-01534****(Phenylethynyl)ferrocene, 10Cl, 8Cl**

Ferrocenylphenylacetylene

[1292-14-4]

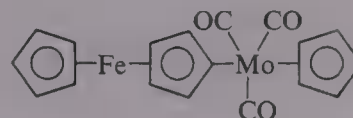


M 286.156

Orange-yellow needles (Et₂O/pentane). Mp 126-8°.Bp_{0.02} 120° subl.Pauson, P.L. *et al*, *J. Chem. Soc.*, 1963, 2990 (*synth, ir*)Rausch, M.D. *et al*, *J. Org. Chem.*, 1966, **31**, 2703 (*synth, pmr*)Rosenblum, M. *et al*, *J. Organomet. Chem.*, 1966, **6**, 173 (*synth, pmr, uv*)Rausch, M.D., *J. Organomet. Chem.*, 1969, **17**, 117 (*pmr*)Abram, T.S. *et al*, *Synth. React. Inorg. Metal-Org. Chem.*, 1976, **6**, 31 (*synth*)**C₁₈H₁₄FeMoO₃****Fe-01535**

Tricarbonyl(η⁵-2,4-cyclopentadien-1-yl)ferrocenylmolybdenum, 9Cl

[60349-56-6]



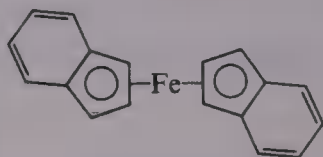
M 430.094

Mp 140° dec.

Pannell, K.H. *et al*, *Inorg. Chem.*, 1976, **15**, 2671 (*synth, ir, pmr*)**C₁₈H₁₄Fe****Fe-01532****Bis[(1,2,3,3a,7a-η)-1H-inden-1-yl]iron, 9Cl**

Dibenzoferrocene

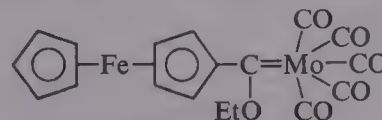
[1272-49-7]



M 286.156

Deep-purple cryst. (Et₂O). Mod. sol. ligroin, Me₂CO. d 1.45. Mp 184-5°. Subl. at 120-30° *in vacuo*.Fischer, E.O. *et al*, *Z. Naturforsch., B*, 1953, **8**, 694 (*synth*)Pauson, P.L. *et al*, *J. Am. Chem. Soc.*, 1954, **76**, 2024 (*synth, ir*)Trotter, J., *Acta Crystallogr.*, 1958, **11**, 358 (*struct*)Fritz, H.P. *et al*, *J. Organomet. Chem.*, 1965, **4**, 198 (*pmr*)Prins, R. *et al*, *J. Organomet. Chem.*, 1970, **25**, C74 (*esr*)**C₁₈H₁₄FeMoO₆****Fe-01536****Pentacarbonyl(ethoxyferrocenylmethylene)molybdenum, 10Cl**

[68830-11-5]



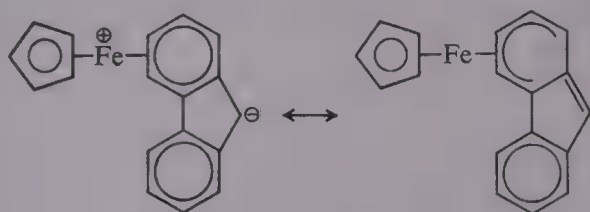
M 478.092

Black-red cryst. (pentane). Mp >85° dec.

Fischer, E.O. *et al*, *Chem. Ber.*, 1978, **111**, 3530 (*synth, ir, pmr, cmr*)Fischer, E.O. *et al*, *J. Organomet. Chem.*, 1980, **191**, 261 (*ir, pmr, cmr*)**C₁₈H₁₄Fe****Fe-01533**

(η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,4a,9a-η)-9H-fluoren-9-yl]iron, 10Cl

[62343-22-0]

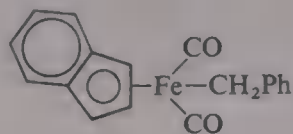


M 286.156

C₁₈H₁₄FeO₂

Fe-01537

Benzyldicarbonyl[(1,2,3,3a,7a-η)-1H-inden-1-yl]iron
Dicarbonyl[(1,2,3,3a,7a-η)-1H-inden-1-yl](phenylmethyl)iron, 10Cl, 9Cl. *σ*-Benzyl-*π*-indenyl dicarbonyliron
 [43157-70-6]



M 318.154

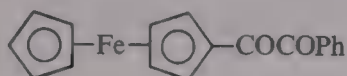
Mp 86-7°.

Jacobson, S.E. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 6962 (*synth*, *ir*, *pmr*)

C₁₈H₁₄FeO₂

Fe-01538

1-Ferrocenyl-2-phenyl-1,2-ethanedione
Ferrocenylphenylglyoxal, 8Cl. *Ferrocenyl phenyl diketone*
 [12310-13-3]



M 318.154

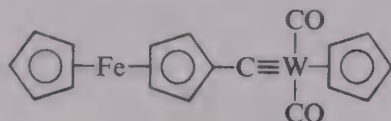
Ruby-red plates (hexane). Mp 85-6°.

Rausch, M.D. *et al*, *J. Org. Chem.*, 1968, **33**, 4545 (*synth*, *pmr*)

C₁₈H₁₄FeO₂W

Fe-01539

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(ferrocenylmethylene)tungsten, 10Cl
 [65230-44-6]



M 502.004

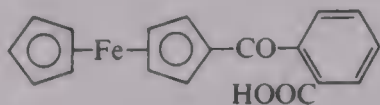
Bright-red cryst. (pentane). Spar. sol. nonpolar solvs. Mp 112°.

Fischer, E.O. *et al*, *Chem. Ber.*, 1977, **110**, 3397; 1978, **111**, 3530 (*synth*, *ir*, *pmr*, *cmr*, *ms*)

C₁₈H₁₄FeO₃

Fe-01540

2-Ferrocenoylbenzoic acid
(2-Carboxybenzoyl)ferrocene, 9Cl. *o*-Ferrocenylcarbonylbenzoic acid
 [1298-66-4]



M 334.154

Antianaemic agent. Orange cryst. Mp 198°.

Dabard, R. *et al*, *C. R. Hebd. Seances Acad. Sci.*, 1962, **254**, 2014 (*synth*)

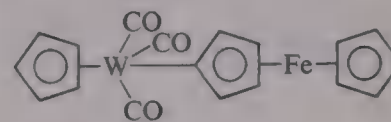
Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk. SSSR, Otd. Khim. Nauk.*, 1962, 1990 (*ir*)

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR*, 1965, **165**, 835; *CA*, **64**, 82346.

C₁₈H₁₄FeO₃W

Fe-01541

Tricarbonyl(η⁵-2,4-cyclopentadien-1-yl)ferrocenyltungsten, 9Cl
π-Cyclopentadienyl-*σ*-ferrocenyltungsten tricarbonyl
 [52472-04-5]



M 518.004

Bright-orange air stable cryst. (CH₂Cl₂/heptane). Mp 173-5° (170-3°).

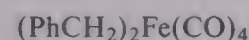
Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1973, 2796 (*synth*, *ir*, *pmr*)

Pannell, K.H. *et al*, *Inorg. Chem.*, 1976, **15**, 2671 (*synth*, *ir*)

C₁₈H₁₄FeO₄

Fe-01542

Dibenzyltetracarbonyliron, 8Cl
Tetracarbonylbis(phenylmethyl)iron
 [25154-64-7]



M 350.153

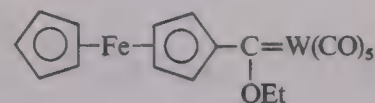
Compd. prepd. and used *in situ*.

Fukuoka, S. *et al*, *J. Org. Chem.*, 1970, **35**, 3184 (*synth*)

C₁₈H₁₄FeO₆W

Fe-01543

Pentacarbonyl(ethoxyferrocenylmethylene)tungsten, 9Cl
[Ethoxyferrocenylcarbene]pentacarbonyltungsten
 [34691-66-2]



M 566.002

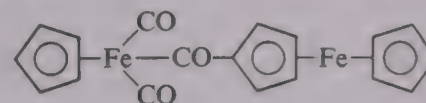
Dark-brown needles (Et₂O/hexane). Mp 155-6°.

Connor, J.A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 1470 (*synth*, *pmr*, *ir*, *uv*, *ms*)

C₁₈H₁₄Fe₂O₃

Fe-01544

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(ferrocenylcarbonyl)iron, 9Cl
π-Cyclopentadienyl-*σ*-ferrocenoyliron dicarbonyl
 [52462-21-2]



M 390.001

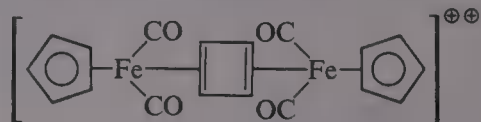
Orange cryst. (hexane). Mp 153-4°, 155° dec. Loses CO at 140° in xylene giving Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)ferrocenyliron, Fe-01487.

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1973, 2796 (*synth*, *pmr*, *ir*)

Pannell, K.H. *et al*, *Inorg. Chem.*, 1976, **15**, 2671 (*synth*, *pmr*, *ir*, *ms*)

C₁₈H₁₄Fe₂O₄^{⊕⊕}

Fe-01545

Tetracarbonyl[μ-[(1,2-η:3,4-η)-1,3-cyclobutadiene-]]bis(η⁵-2,4-cyclopentadien-1-yl)diiron(2+), 9Cl

M 406.000 (ion)

Bis(hexafluorophosphate): [53436-99-0].

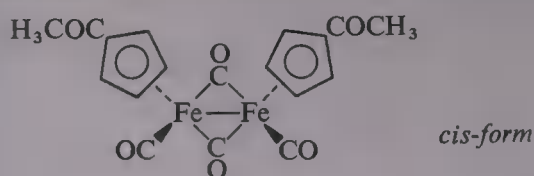
C₁₈H₁₄F₁₂Fe₂O₄P₄ M 757.876Air-stable yellow solid (MeNO₂/CH₂Cl₂).Sanders, A. *et al*, *J. Organomet. Chem.*, 1976, **104**, 49 (*synth*, *ir*, *cmr*, *pmr*)C₁₈H₁₄Fe₂O₆

Fe-01546

Bis[(1,2,3,4,5-η)-1-acetyl-2,4-cyclopentadien-1-yl]di-μ-carbonyldicarbonyldiiron, 10Cl

Bis(acetylcyclopentadienyl)tetracarbonyldiiron

[62152-73-2]



M 437.999

Deep-purple cryst. (CHCl₃/pet. ether). Mp 156° dec.*cis-form* [75599-43-8]

Not separately characterised.

trans-form [75657-76-0]

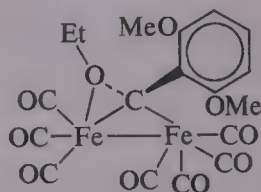
Not separately characterised.

Cutler, A.R. *et al*, *J. Organomet. Chem.*, 1976, **120**, 87 (*synth*, *ir*, *pmr*)El Murr, N. *et al*, *J. Organomet. Chem.*, 1980, **193**, C60 (*synth*, *ir*, *ms*)C₁₈H₁₄Fe₂O₁₀

Fe-01547

Heptacarbonyl[μ-[(2,6-dimethoxyphenyl)ethoxymethylene]]-diiron, 9Cl

[36153-99-8]



M 501.997

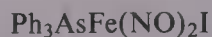
Deep-red cryst. (pentane). Mp 98°.

Fischer, E.O. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1972, **11**, 238 (*synth*, *ir*, *ms*, *pmr*, *struct*)Huttner, G. *et al*, *Chem. Ber.*, 1972, **105**, 2726 (*struct*)C₁₈H₁₅AsFeIN₂O₂

Fe-01548

Iododinitrosyl(triphenylarsine)iron, 9Cl, 8Cl

[31177-49-8]



M 549.002

Almost black cryst. (Me₂CO). Mp 96-8°. Paramagnetic.Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1963, **321**, 94 (*synth*)Kramolowsky, R. *et al*, *Z. Naturforsch., B*, 1970, **25**, 1487 (*esr*)Crow, J.P. *et al*, *Inorg. Chem.*, 1971, **10**, 1616 (*ir*, *mössbauer*)C₁₈H₁₅BrFeN₂O₂P

Fe-01549

Bromodinitrosyl(triphenylphosphine)iron, 10Cl, 9Cl, 8Cl

[14318-90-2]



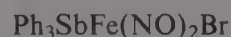
M 458.053

Dark blue-violet cryst. (Me₂CO or Et₂O/pet. ether). Mp 160-3° dec. Paramagnetic.Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1963, **321**, 94 (*synth*)Beck, W., *Chem. Ber.*, 1965, **98**, 2657 (*ir*)Kramolowsky, R. *et al*, *Z. Naturforsch., B*, 1970, **25**, 1487 (*esr*)Pignataro, S. *et al*, *Int. J. Mass Spectrom. Ion Phys.*, 1970, **3**, 479 (*ms*)Pignataro, S. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 6425 (*synth*, *ir*)Crow, J.P. *et al*, *Inorg. Chem.*, 1971, **10**, 1616 (*ir*, *mössbauer*)C₁₈H₁₅BrFeN₂O₂Sb

Fe-01550

Bromodinitrosyl(triphenylstibine)iron, 9Cl, 8Cl

[33728-20-0]



M 548.830

Green-black cryst. (Et₂O).Crow, J.P. *et al*, *Inorg. Chem.*, 1971, **10**, 1616 (*synth*, *ir*, *mössbauer*)C₁₈H₁₅ClFeN₂O₂P

Fe-01551

Chlorodinitrosyl(triphenylphosphine)iron, 10Cl, 9Cl, 8Cl

[40813-55-6]

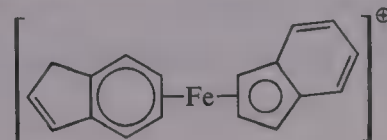


M 413.602

Deep-purple or black needles (Me₂CO), brown air-sensitive prisms (THF). Paramagnetic.Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1963, **321**, 94 (*synth*)Beck, W., *Chem. Ber.*, 1965, **98**, 2657 (*ir*)Pignataro, S. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 6425 (*synth*, *ir*)Schmidt, J., *Z. Naturforsch., B*, 1972, **27**, 600 (*esr*)Gwost, D. *et al*, *Inorg. Chem.*, 1973, **12**, 2095 (*synth*, *ir*)Kopf, J. *et al*, *Z. Naturforsch., B*, 1975, **30**, 149 (*struct*)C₁₈H₁₅Fe[⊕]

Fe-01552

[(3a,4,5,6,7,7a-η)-1H-indene][(1,2,3,3a,7a-η)-1H-inden-1-yl]iron(1+), 9Cl



M 287.164 (ion)

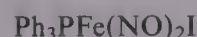
Hexafluorophosphate: [36346-73-3].

C₁₈H₁₅F₆FeP M 432.128Red-orange cryst. (Me₂CO/Et₂O). Mp 184-5° dec.Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1975, **88**, 207 (*synth*, *pmr*, *ir*)C₁₈H₁₅FeIN₂O₂P

Fe-01553

Iododinitrosyl(triphenylphosphine)iron, 9Cl, 8Cl

[14588-79-5]



M 505.054

Blue-black cryst. (Me₂CO). Mp 127-30° dec. Paramagnetic.Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1963, **321**, 94 (*synth*)Beck, W., *Chem. Ber.*, 1965, **98**, 2657 (*ir*)Pignataro, S. *et al*, *Int. J. Mass Spectrom. Ion Phys.*, 1970, **3**, 479 (*ms*)Pignataro, S. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 6425 (*synth*, *ir*)Crow, J.P. *et al*, *Inorg. Chem.*, 1971, **10**, 1616 (*ir*, *mössbauer*)Schmidt, J., *Z. Naturforsch., B*, 1972, **27**, 600 (*esr*)C₁₈H₁₅FeIN₂O₂Sb

Fe-01554

Iododinitrosyl(triphenylstibine)iron



M 595.830

Almost black cryst. (Me₂CO). Mp 74-6°. Paramagnetic.Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1963, **321**, 94 (*synth*)C₁₈H₁₅FeO⁺

Fe-01555

(η⁶-Benzene)[(1,2,3,4,5-η)-1-benzoyl-2,4-cyclopentadien-1-yl]iron(1+), 10ClAs (η⁶-Benzene)(η⁵-1-chloro-2,4-cyclopentadien-1-yl)-iron(1+), Fe-00703 with

M 303.163 (ion)

Hexafluorophosphate: [59688-05-0].

C₁₈H₁₅F₆FeOP M 448.127

Phys. props. not reported.

Astruc, D. *et al*, *Tetrahedron*, 1976, **32**, 245 (*synth*, *ir*, *pmr*)C₁₈H₁₆Fe

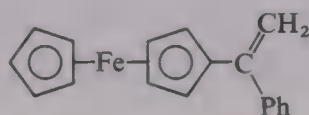
Fe-01556

(1-Phenylethenyl)ferrocene, 9Cl

α-Ferrocenylstyrene. 1-Ferrocenyl-1-phenylethylene.

(1-Phenylvinyl)ferrocene

[35126-64-8]



M 288.171

Red-brown or dark-red oil. Bp_{0.1} 140°.Horspool, W.M. *et al*, *J. Chem. Soc. (C)*, 1971, 1550 (*synth*, *ir*, *pmr*)Hisatome, M. *et al*, *J. Organomet. Chem.*, 1978, **145**, 225 (*synth*, *ir*, *pmr*)Cardin, C.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1979, 970 (*pmr*, *uv*)C₁₈H₁₆Fe

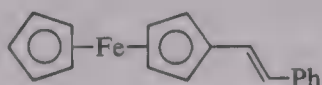
Fe-01557

(2-Phenylethenyl)ferrocene, 9Cl

1-Ferrocenyl-2-phenylethylene. 2-Ferrocenylstyrene.

Styrylferrocene

[12094-24-5]



M 288.171

(E)-form [1272-54-4]

Scarlet needles (ligroin). Mp 120-2°.

Drefahl, G. *et al*, *Chem. Ber.*, 1962, **95**, 2788 (*synth*, *uv*)Sugiyama, N. *et al*, *Bull. Chem. Soc. Jpn.*, 1962, **35**, 767 (*synth*)Pauson, P.L. *et al*, *J. Chem. Soc.*, 1963, 2990 (*synth*, *ir*)Cardin, C.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1979, 970 (*pmr*, *uv*)Boer, V.I. *et al*, *Zh. Obshch. Khim.*, 1980, **50**, 121 (*synth*)C₁₈H₁₆FeO

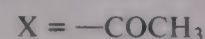
Fe-01558

(4-Acetylphenyl)ferrocene, 9Cl

4-Ferrocenylacetophenone

[12261-57-3]

As (4-Bromophenyl)ferrocene, Fe-01392 with



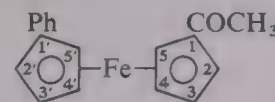
M 304.171

Orange-red cryst. (Et₂O/pet. ether). Mp 176-8°.Rosenblum, M. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 2726 (*synth*)Gronowitz, S. *et al*, *Org. Magn. Reson.*, 1975, **7**, 372 (*cmr*)Toma, S. *et al*, *Chem. Zvesti*, 1975, **29**, 526 (*pmr*)C₁₈H₁₆FeO

Fe-01559

1-Acetyl-1'-phenylferrocene, 9Cl

[63210-25-3]



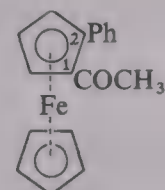
M 304.171

Orange rods (Et₂O/pet. ether). Mp 92.5-93.5°, 113-4°.Rosenblum, M., *J. Am. Chem. Soc.*, 1959, **81**, 4530 (*synth*, *uv*, *ir*)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1961, **139**, 888 (*synth*)Eberhardt, R. *et al*, *Monatsh. Chem.*, 1973, **104**, 1409 (*hplc*)Toma, Š. *et al*, *Collect. Czech. Chem. Commun.*, 1977, **42**, 1013 (*synth*, *pmr*)C₁₈H₁₆FeO

Fe-01560

1-Acetyl-2-phenylferrocene, 9Cl

[52689-74-4]



(1R)-form

M 304.171

(1R)-form

[α]_D²⁰ +92° (c, 0.2 in EtOH).

(±)-form

Amber-coloured octahedra (pet. ether). Mp 72.5-74°.

Rosenblum, M., *J. Am. Chem. Soc.*, 1959, **81**, 4530 (*synth*, *uv*, *ir*)Lehner, H. *et al*, *Monatsh. Chem.*, 1970, **101**, 895 (*resoln*)Eberhardt, R. *et al*, *Monatsh. Chem.*, 1973, **104**, 1409 (*hplc*)C₁₈H₁₆FeO

Fe-01561

1-Acetyl-3-phenylferrocene, 9Cl

[52633-44-0]

M 304.171

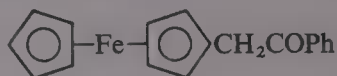
Orange rods (Et₂O/pet. ether). Mp 113-4°.Rosenblum, M., *J. Am. Chem. Soc.*, 1959, **81**, 4530 (*synth*, *uv*, *ir*)Eberhardt, R. *et al*, *Monatsh. Chem.*, 1973, **104**, 1409 (*hplc*)

C₁₈H₁₆FeO

Fe-01562

Benzoylmethylferrocene, 9Cl

(Ferrocenylmethyl)phenyl ketone. Phenacylferrocene.
2-Ferrocenyl-1-phenylethanone
[39345-78-3]



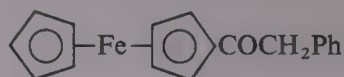
M 304.171

Pale-yellow powder by subl. Mp 80-2°. Bp_{0.02} 120° subl.Pauson, P.L. *et al*, *J. Chem. Soc.*, 1963, 2990 (*synth*, *ir*)C₁₈H₁₆FeO

Fe-01563

(Phenylacetyl)ferrocene, 9Cl

Benzyl ferrocenyl ketone. Phenacylferrocene. 1-
Ferrocenyl-2-phenylethanone
[1277-72-1]

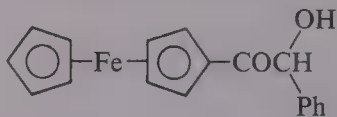


M 304.171

Red cryst. Mp 130°.

Dabard, R. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1962, **254**, 2014 (*synth*)Sugiyama, M. *et al*, *Bull. Chem. Soc. Jpn.*, 1962, **35**, 767 (*synth*)Gokel, G.W. *et al*, *J. Org. Chem.*, 1973, **38**, 1913 (*synth*, *pmr*)Gyepes, E. *et al*, *Cryst. Struct. Commun.*, 1975, **4**, 229 (*struct*)C₁₈H₁₆FeO₂

Fe-01564

1-Ferrocenyl-2-hydroxy-2-phenylethanone
(2-Hydroxy-2-phenylethanoyl)ferrocene

M 320.170

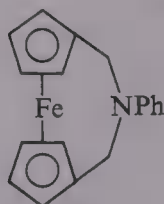
Pink needles (EtOH aq.). Mp 148-9°.

Broadhead, G.D. *et al*, *J. Chem. Soc.*, 1958, 650 (*synth*, *ir*)C₁₈H₁₇FeN

Fe-01565

N,N-(1,1'-Ferrocenediyl)dimethylene)aniline, 8Cl

1,1'-(N,N-Dimethylenebenzeneamine)diylferrocene. 2-
Phenyl-2-aza[3]ferrocenophane
[12113-22-3]



M 303.186

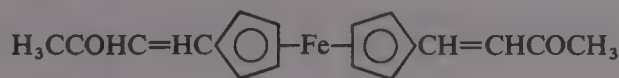
Yellow cryst. (hexane). Mp 186-8°.

Lorkowski, H.-J. *et al*, *Chem. Ber.*, 1966, **99**, 3619; *J. Organomet. Chem.*, 1967, **2**, 523 (*synth*, *pmr*)C₁₈H₁₈FeO₂

Fe-01566

1,1'-Bis(3-oxo-1-butenyl)ferrocene, 9Cl

1,1'-Bis(2-acetylvinyl)ferrocene
[36472-44-3]



M 322.186

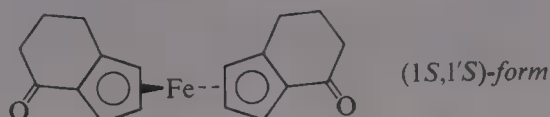
Mp 112-3°.

Kasahara, A. *et al*, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 895 (*synth*, *pmr*, *ir*)C₁₈H₁₈FeO₂

Fe-01567

Bis(4,5,6,7-tetrahydro-4-oxo-π-indenyl)iron, 8Cl

1,2,1',2'-Bis(α-ketotetramethylene)ferrocene
[33307-51-6]



M 322.186

(1S,1'S)-form

Granite-red cryst. Mp 158-60°. [α]_D²⁰ +110° (c, 0.22 in EtOH).

(1RS,1'RS)-form

Carmine-red cryst. (Et₂O/Me₂CO). Mp 158-60°.

(1RS,1'SR)-form

meso-form

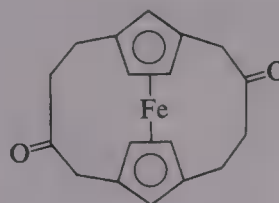
Orange-red cryst. (hexane). Mp 168-70°.

Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 3263 (*synth*, *ir*, *uv*)Falk, H. *et al*, *Monatsh. Chem.*, 1965, **96**, 266 (*resoln*)Falk, H. *et al*, *Tetrahedron*, 1971, **27**, 2279 (*conformn*)C₁₈H₁₈FeO₂

Fe-01568

[4][4](1,3)Ferrocenophane-2,11-dione

1,1'-(2-Oxo-1,4-butanediyl)-3,3'-(3-oxo-1,4-butanediyl)ferrocene, 9Cl. [4](1,1')[4](3,3')Ferrocenophane-7,12-dione
[59520-17-1]



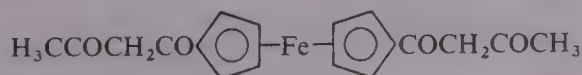
M 322.186

Yellow needles (C₆H₆/EtOAc). Mp 147-8°.Hisatome, M. *et al*, *J. Organomet. Chem.*, 1976, **107**, 87 (*synth*, *pmr*, *ir*, *ms*)C₁₈H₁₈FeO₄

Fe-01569

1,1'-Bis(1,3-dioxobutyl)ferrocene, 9Cl

1,1'-Bis(acetoacetyl)ferrocene
[12171-40-3]



M 354.185

Bright-red cryst. (C₆H₆). Mp 143-4°.Cain, C.E. *et al*, *J. Org. Chem.*, 1961, **26**, 1030 (*synth*)Imai, H., *Bull. Chem. Soc. Jpn.*, 1972, **45**, 1264 (*synth*, *ms*)

C₁₈H₁₈Fe₂O₄

Fe-01570

μ-1,4-Butanediyltetracarbonylbis(η⁵-2,4-cyclopentadien-1-yl)diiron, 9Cl

[36655-41-1]

As μ-1,3-Propanediyltetracarbonylbis(η⁵-2,4-cyclopentadien-1-yl)diiron, Fe-01497 with

n = 4

M 410.032

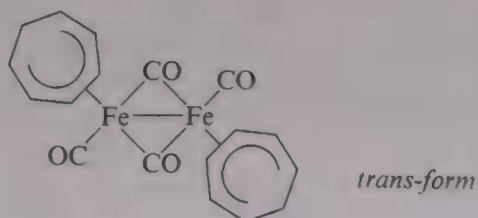
Orange cryst. (pentane). Mp 123-4°.

King, R.B., *Inorg. Chem.*, 1963, **2**, 531 (*synth*, *pmr*, *ir*)Pope, L. *et al*, *J. Organomet. Chem.*, 1976, **112**, 309 (*struct*, *pmr*, *cmr*, *ir*)C₁₈H₁₈Fe₂O₄

Fe-01571

Di-μ-carbonyldicarbonylbis[(1,2,3,4,5-η)-2,4-cycloheptadien-1-yl]diiron, 10Cl*Tetracarbonylbis(1,3-cycloheptadienyl)diiron*

[12113-26-7]



M 410.032

cis-form [77674-76-1]

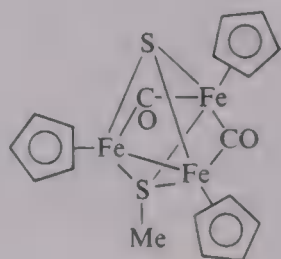
Red-pink cryst. (EtOAc/pet. ether). Mp 160-5° dec.

trans-form [77715-23-2]Red cryst. (CHCl₃/pet. ether). Mp 198°.Chaudhari, F.M. *et al*, *J. Organomet. Chem.*, 1966, **5**, 73 (*synth*)Hashmi, M.A. *et al*, *J. Chem. Soc. (A)*, 1967, 240 (*synth*, *ir*)Reddy, B. *et al*, *J. Organomet. Chem.*, 1979, **182**, C61 (*synth*)Bockmeulen, H.A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 264 (*synth*, *ir*)C₁₈H₁₈Fe₃O₂S₂

Fe-01572

Di-μ-carbonyltris(η⁵-2,4-cyclopentadien-1-yl)[μ₃-(methanethiolato)]-μ₃-thioxotriiron

[42612-86-2]



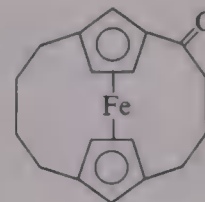
M 498.000

Black cryst. (C₆H₆/pet. ether). Mp 197° dec.Haines, R.J. *et al*, *J. Organomet. Chem.*, 1973, **55**, C30; 1975, **85**, 89 (*synth*, *ir*, *pmr*, *ms*)C₁₈H₂₀FeO

Fe-01573

[4][4](1,3)Ferrocenophan-1-one*1,1'-(1,4-Butanediyl)-3,3'-(1-oxo-1,4-butanediyl)ferrocene, 9Cl*. [4](1,1')[4](3,3')Ferrocenophane-6-one

[59520-19-3]



M 308.202

Yellow plates (hexane/EtOAc). Mp 112.5-114°.

Hisatome, M. *et al*, *J. Organomet. Chem.*, 1976, **107**, 87 (*synth*, *pmr*, *ir*, *ms*)C₁₈H₂₀FeO

Fe-01574

[4][4](1,3)Ferrocenophan-2-one*1,1'-(1,4-Butanediyl)-3,3'-(2-oxo-1,4-butanediyl)ferrocene, 9Cl*. [4](1,1')[4](3,3')Ferrocenophan-7-one

[12524-76-4]

M 308.202

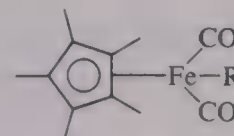
Yellow needles (hexane/EtOAc). Mp 95-6°.

Hisatome, M. *et al*, *J. Organomet. Chem.*, 1976, **107**, 87 (*synth*, *pmr*, *ir*, *ms*)C₁₈H₂₀FeO₂

Fe-01575

Dicarbonyl[(1,2,3,4,5-η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]phenyliron, 9Cl*σ-Phenylpentamethyl-π-cyclopentadienyldicarbonyliron*

[43157-73-9]



R = Ph

M 324.202

Mp 165-6°.

Jacobson, S.E. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 6962 (*synth*, *ir*, *pmr*)C₁₈H₂₂Fe

Fe-01576

[4][4](1,3)Ferrocenophane*1,1':3,3'-Bis(1,4-butanediyl)ferrocene, 9Cl*. [4](1,1')[4](3,3')Ferrocenophane

[12524-79-7]

M 294.219

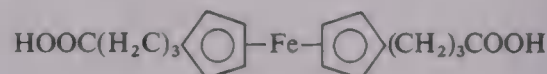
Yellow plates (hexane/EtOAc). Mp 117°.

Hisatome, M. *et al*, *J. Organomet. Chem.*, 1976, **107**, 87 (*synth*, *pmr*, *ms*)C₁₈H₂₂FeO₄

Fe-01577

1,1'-Ferrocenedibutanoic acid*1,1'-Bis(3-carboxypropyl)ferrocene, 9Cl*

[56732-49-1]



M 358.216

Yellow cryst (Et₂O/hexane or C₆H₆/pet. ether). Mp 109.5-110.5° (110-3°).

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1956, **111**, 362 (*synth*)

Schlögl, K. *et al*, *Monatsh. Chem.*, 1960, **91**, 79 (*synth*)

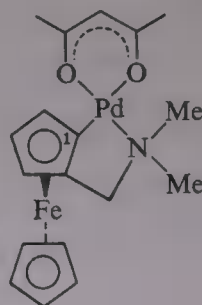
Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 3263 (*synth*)

C₁₈H₂₃FeNO₂Pd Fe-01578

[2-[(Dimethylamino)methyl]ferrocenyl-C,N]-(2,4-pentanedionato-O,O')palladium, 10Cl

Acetylacetonato[2-[(dimethylamino)methyl]ferrocenyl]-palladium

[58616-69-6]



(R)(+)-form

M 447.652

Yellow cryst.

(1R)-form [73609-66-2]

R_{planar}-form

Yellow cryst. [α]_D²⁰ +494° (c, 0.04 in MeOH), +370° (c, 0.5 in CH₂Cl₂).

(1S)-form

S_{planar}-form

Yellow cryst. [α]_D²⁰ -300° (c, 4.15 in CH₂Cl₂).

(±)-form

Yellow cryst. (pentane). Mp 123-4°.

Gaunt, J.C. *et al*, *J. Organomet. Chem.*, 1975, **102**, 511 (*synth*)

Sokolov, V.I. *et al*, *Chimia*, 1978, **32**, 122.

Sokolov, V.I. *et al*, *J. Organomet. Chem.*, 1979, **182**, 537 (*abs config*)

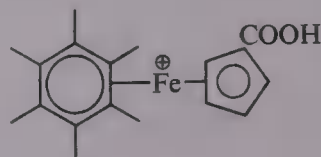
Komatsu, T. *et al*, *Bull. Chem. Soc. Jpn.*, 1981, **54**, 186 (*resoln*)

C₁₈H₂₃FeO₂⁺ Fe-01579

(η⁵-Carboxycyclopentadienyl)(η⁶-hexamethylbenzene)iron-(1+)

[(1,2,3,4,5-η)-1-Carboxylato-2,4-cyclopentadien-1-yl][(1,2,3,4,5,6-η)-hexamethylbenzene]iron, 10Cl

[72061-49-5]



M 327.226 (ion)

Converted to the Zwitterionic anion with base; this can be reduced to the radical anion. This system is capable of reducing NO₃⁻ to NH₃ in aq. medium.

Tetrafluoroborate: [72061-52-0]. [(1,2,3,4,5-η)-1-Carboxylato-2,4-cyclopentadien-1-yl][(1,2,3,4,5,6-η)-hexamethylbenzene]iron compd. with HBF₄, 10Cl.

C₁₈H₂₃BF₄FeO₂ M 414.029

Cryst. (Me₂CO).

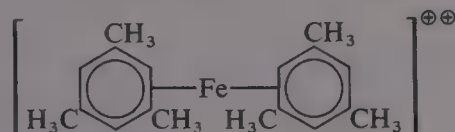
Roman, E. *et al*, *Tetrahedron Lett.*, 1979, 1433 (*synth, pmr, cmr*)

C₁₈H₂₄Fe²⁺

Fe-01580

Bis[(1,2,3,4,5,6-η)-1,3,5-trimethylbenzene]iron(2+), 9Cl

Bis(mesitylene)iron(2+), 8Cl



M 296.235 (ion)

Bis(hexafluorophosphate): [31666-55-4].

C₁₈H₂₄F₁₂FeP₂ M 586.163

Pale-orange solid (Me₂CO/Et₂O).

Bis(tetraphenylborate):

C₆₆H₆₄B₂Fe M 934.699

Red-orange needles (Me₂CO/Et₂O).

Fischer, E.O. *et al*, *Chem. Ber.*, 1956, **89**, 2397 (*synth*)

Stukau, R.A. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1966, 1472 (*mössbauer*)

Helling, J.F. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 7207 (*synth*)

Helling, J.F. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 930 (*synth*)

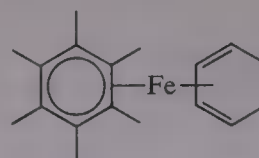
Astruc, D. *et al*, *Tetrahedron*, 1976, **32**, 245 (*pmr*)

C₁₈H₂₆Fe

Fe-01581

[(1,2,3,4-η)-1,3-Cyclohexadiene][(1,2,3,4,5,6-η)-hexamethylbenzene]iron, 10Cl

[63453-56-5]



M 298.250

Orange cryst. Bp 25° subl. *in vacuo*.

Weber, S.R. *et al*, *J. Organomet. Chem.*, 1977, **127**, 45 (*synth, ms, pmr, ir*)

Bennett, M.A. *et al*, *J. Organomet. Chem.*, 1978, **153**, C25 (*synth*)

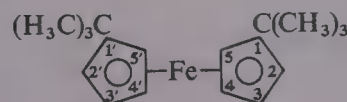
C₁₈H₂₆Fe

Fe-01582

1,1'-Di-tert-butylferrocene

1,1'-Bis(1,1-dimethylethyl)ferrocene, 9Cl. Bis(tert-butylcyclopentadienyl)iron

[32994-58-4]



M 298.250

Orange liq. Mp 29-30°. Bp_{0.05} 108°.

Riemschneider, R. *et al*, *Monatsh. Chem.*, 1959, **90**, 568 (*synth*)

Knox, G.R. *et al*, *J. Chem. Soc.*, 1961, 4610 (*synth*)

Org. Reactions, 1969, **17**, 1 (*synth*)

Köhler, F.H. *et al*, *J. Organomet. Chem.*, 1975, **96**, 391 (*cmr*)

Bitterwolf, T.E. *et al*, *J. Organomet. Chem.*, 1977, **141**, 355 (*pmr*)

C₁₈H₂₆Fe

Fe-01583

1,3-Di-tert-butylferrocene

1,3-Bis(1,1-dimethylethyl)ferrocene, 9Cl

[1317-08-4]

M 298.250

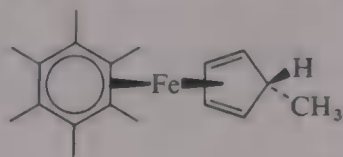
Orange needles (EtOH). Mp 63°.

Leigh, T., *J. Chem. Soc.*, 1964, 3294 (*synth*)

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1972, **39**, 173 (*pmr*)

C₁₈H₂₆Fe

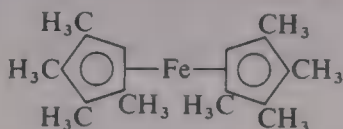
Fe-01584

[(1,2,3,4,5,6- η)-1,2,3,4,5,6-Hexamethylbenzene]-(2,3,4,5- η)-5-methyl-1,3-cyclopentadiene]iron

M 298.250

*exo-form*Unstable orange-red cryst. Mp 85° dec. Bp_{0.005} 35° subl.Khand, I.U. *et al*, *J. Chem. Soc. (C)*, 1968, 2261; 1969, 2024 (*synth, ir, pmr*)C₁₈H₂₆Fe

Fe-01585

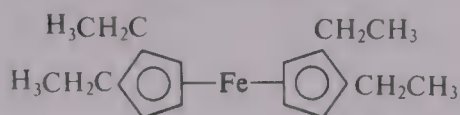
1,1',2,2',3,3',4,4'-Octamethylferrocene, η Cl
[59568-28-4]

M 298.250

Schmitt, G. *et al*, *CA*, 1976, **85**, 21587 (*synth*)C₁₈H₂₆Fe

Fe-01586

1,1',2,2'-Tetraethylferrocene

Bis(η^5 -1,2-diethylcyclopentadienyl)iron

M 298.250

Orange liq. Bp 319°.

Bublitz, D.E., *Can. J. Chem.*, 1964, **42**, 2381 (*synth*)Bublitz, D.E., *J. Organomet. Chem.*, 1969, **16**, 149 (*synth, pmr, glc, ir*)C₁₈H₂₆Fe

Fe-01587

1,1',3,3'-Tetraethylferrocene, η Cl

[59450-54-3]

M 298.250

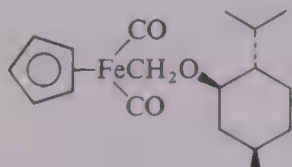
Orange liq. Bp 307°.

Bublitz, D.E., *Can. J. Chem.*, 1964, **42**, 2381 (*synth*)Bublitz, D.E., *J. Organomet. Chem.*, 1969, **16**, 149 (*synth, pmr, glc, ir*)C₁₈H₂₆FeO₃

Fe-01588

Dicarbonyl- η^5 -cyclopentadienyl(menthyloxymethyl)iron*Dicarbonyl*(η^5 -2,4-cyclopentadien-1-yl)[[5-methyl-2-(1-methylethyl)cyclohexyl]oxy]methyl]iron, η Cl. σ -(Menthyloxymethyl)- π -cyclopentadienyliron dicarbonyl

[56977-53-8]



M 346.249

Amber oil.

Flood, T.C. *et al*, *Inorg. Chem.*, 1976, **15**, 1910 (*synth*)C₁₈H₂₈B₂Fe

Fe-01589

Bis(1-*tert*-butylborabenzene)iron*Bis*[(1,2,3,4,5,6- η)-1-(1,1-dimethylethyl)boratabenzene]iron, η Cl

[57692-68-9]

As *Bis*(η^6 -boratabenzene)iron, Fe-00613 withR = (H₃C)₃C-

M 321.886

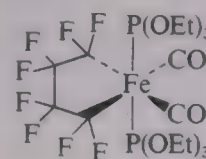
Red-orange solid. Mp 144-5°.

Ashe, A.J. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 6865 (*synth, pmr, nmr, uv, ms, mössbauer, pe*)C₁₈H₃₀F₈FeO₈P₂

Fe-01590

Dicarbonyl(octafluorotetramethylene)*bis*(triethyl phosphite)-iron*Dicarbonyl*(octafluorotetramethylene)*bis*(phosphorous acid)iron hexethyl ester, η Cl

[27658-75-9]



M 644.212

Solid. Mp 180°.

Fields, R. *et al*, *J. Chem. Soc. (A)*, 1970, 1964 (*synth, pmr, ir*)C₁₈H₅₄FeO₁₈P₆^{⊕⊕}

Fe-01591

Hexakis(trimethyl phosphite-*P*)iron(2+), η ClFe[P(OMe)₃]₆^{⊕⊕}

M 800.303 (ion)

Bis(tetraphenylborate): [52051-08-8].C₆₆H₉₄B₂FeO₁₈P₆ M 1438.767

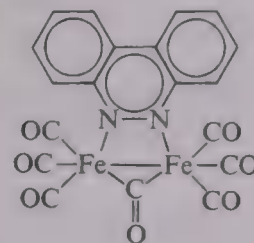
White solid. Almost insol. common org. solvs.

Libbey, T. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 87 (*synth, ir, pmr, mössbauer*)C₁₉H₈Fe₂N₂O₇

Fe-01592

[μ -(Benzo[c]cinnoline-*N*⁵,*N*⁶)]- μ -carbonylhexacarbonyldiiron, η Cl

[53855-84-8]



M 487.975

Blue-black cryst. (THF/hexane). Mp 132°. Dec. readily to [μ -(5,6-Dihydrobenzo[c]cinnolinato-*N*⁵,*N*⁶:*N*⁵,*N*⁶)]hexacarbonyldiiron, Fe-01515.Herberhold, M. *et al*, *J. Organomet. Chem.*, 1974, **78**, 253 (*synth, pmr, ms, ir*)

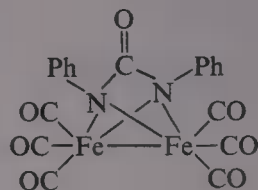
C₁₉H₁₀Fe₂N₂O₇

Fe-01593

Hexacarbonyl[μ-[N,N'-diphenylureato(2-)-N,N':N,N']]diiron, 9Cl

[μ-[Carbanilidato(2-)]][hexacarbonyldiiron, 8Cl. Hexacarbonyl(1,3-diphenylurea)diiron

[20935-93-7]



M 489.991

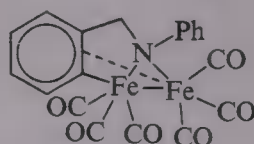
Orange-red cryst. Mp 132-4°.

Flannigan, W.T. *et al*, *Chem. Ind. (London)*, 1967, 1094 (*synth, ir, ms, mössbauer, pmr*)Piron, J. *et al*, *Bull. Soc. Chim. Belg.*, 1967, 76, 505 (*struct*)C₁₉H₁₁Fe₂NO₆

Fe-01594

Hexacarbonyl[μ-[η²:η⁴-1,2-phenylene(2-phenylaminomethylene)]diiron

Hexacarbonyl[μ-[o-phenylenemethylene(phenylimino)]diiron, 8Cl. (N-Benzylideneaniline)hexacarbonyldiiron



M 460.993

Deep red-brown cryst. (pet. ether). Mp 82-82.5°. Struct. determination carried out on 4-Me analogue.

Baikie, P.E. *et al*, *J. Chem. Soc., Chem. Commun.*, 1966, 707 (*cryst struct*)Bagga, M.M. *et al*, *J. Chem. Soc. (C)*, 1968, 36 (*synth, ir, pmr*)Preston, F.J., *Int. J. Mass Spectrom. Ion Phys.*, 1969, 2, 391 (*ms*)C₁₉H₁₂FeO₃

Fe-01595

Tricarbonyl(1,2-diphenyl-1,3-cyclobutadiene)iron, 8Cl

Tricarbonyl[1,1'-(η⁴-1,3-cyclobutadiene-1,2-diyl)bis[benzene]]iron

[34691-56-0]

As Tricarbonyl(η⁴-1,2-diiodo-1,3-cyclobutadiene)iron, Fe-00147 with

R = Ph

M 344.149

Viscous oil.

Brune, H.A. *et al*, *Z. Naturforsch., B*, 1971, 26, 570 (*synth, ir, pmr, uv, ms*)C₁₉H₁₂FeO₅

Fe-01596

Tetracarbonyl[(2,3-η)-1,3-diphenyl-2-propen-1-one]iron, 10Cl

Tetracarbonyl(chalcone)iron

[38268-89-2]

As Tetracarbonyl[(2,3-η)-3-phenyl-2-propenoic acid]iron, Fe-01009 with

R = COPh

M 376.148

(E)-form

Yellow-orange cryst. (C₆H₆/pentane). Mp 96° dec. (88-90°).Brodie, A.M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 2031 (*synth, ir, pmr*)Howell, J.A.S. *et al*, *J. Organomet. Chem.*, 1972, 39, 329 (*synth, ir, pmr*)Koerner von Gustorf, E. *et al*, *Z. Naturforsch., B*, 1972, 27, 392 (*synth, pmr, ir, uv*)C₁₉H₁₂FeO₅

Fe-01597

Tricarbonyl[(O,1,2,3-η)-1,4-diphenyl-2-butene-1,4-dione]iron, 9Cl

(Dibenzoyl ethylene)iron tricarbonyl

[41630-38-0]

As [(O,2,3,4-η)-3-Buten-2-one]tricarbonyliron, Fe-00205 with

R = COPh, R' = Ph

M 376.148

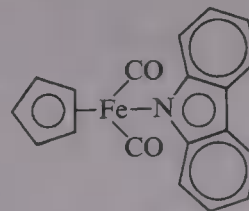
Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1971, 2739 (*synth*)C₁₉H₁₃FeNO₂

Fe-01598

(η¹-9H-Carbazol-1-yl)dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron

Dicarbonyl-π-cyclopentadienyl-9-carbazolyliiron

[12117-55-4]



M 343.164

Red cryst. (Et₂O). Mp 150-5° dec.Pauson, P.L. *et al*, *J. Organomet. Chem.*, 1967, 7, 321 (*synth, ir, pmr*)C₁₉H₁₃FeNO₄

Fe-01599

Tetracarbonyl[N-(3-phenyl-2-propenylidene)benzenamine]iron, 10Cl

[61459-54-9]

(OC)₄CFe—NPh=CHCH=CHPh

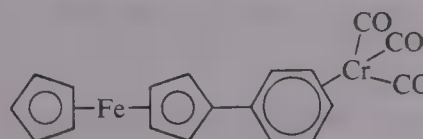
M 375.163

Red-brown cryst. (pentane). Mp 81-3°.

Cardaci, G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 1735 (*synth, ir, pmr*)C₁₉H₁₄CrFeO₃

Fe-01600

Tricarbonyl(phenylferrocene)chromium, 8Cl

Tricarbonyl[η⁶-(ferrocenylbenzene)]chromium

M 398.161

Orange cryst. (heptane). Mp 147-50° dec.

Gubin, S.P. *et al*, *J. Organomet. Chem.*, 1970, 22, 449 (*synth, ir, pmr, polarog*)

C₁₉H₁₄FeO₃**Fe-01601****Tricarbonyl(1,4-diphenyl-1,3-butadiene)iron, 8Cl**[1,1'-(η⁴-1,3-Butadiene-1,4-diyl)bis[benzene]]tricarbonyliron, 9Cl

[33593-85-0]

As Tricarbonyl[(2,3,4,5-η)-2,4-hexadienedial]iron, Fe-00358 with



M 346.165

syn, syn-form [48194-86-1]Yellow-orange cryst. (hexane/CH₂Cl₂). Mp 165-6° (159°). Bp_{0.1} 140° subl.Manuel, T.A. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 3597 (*synth, ir*)Kuz'mina, L.G. *et al*, *Zh. Strukt. Khim.*, 1972, **13**, 1115 (*struct*)De Cian, A. *et al*, *Bull. Soc. Chim. Fr.*, 1973, 451 (*synth, struct*)Bellachioma, G. *et al*, *J. Organomet. Chem.*, 1981, **205**, 91 (*synth, ir*)**C₁₉H₁₄FeO₃****Fe-01602****Tricarbonyl(η⁴-2-methylene-1,1-diphenyl-1,3-propanediyl)-iron**

Tricarbonyl(π,σ-2-methylene-1,1-diphenyltrimethylene)iron, 8Cl

[12390-69-1]

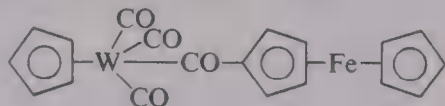
As Tricarbonyl[η⁴-2-(oxoethylidene)-1,3-propanediyl]-iron, Fe-00273 with

M 346.165

Mp 157-8°.

Noyori, R. *et al*, *J. Chem. Soc., Chem. Commun.*, 1969, 89 (*synth, ir*)Pinhas, A.R. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 1668.**C₁₉H₁₄FeO₄W****Fe-01603****Tricarbonyl(η⁵-2,4-cyclopentadien-1-yl)(ferrocenylcarbonyl)-tungsten, 9Cl**

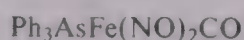
π-Cyclopentadienyl-σ-ferrocenoyltungsten tricarbonyl [52680-31-6]



M 546.014

Bright-orange air-stable cryst. (heptane or CH₂Cl₂/hexane). Mp 147° dec. Decarbonylates at 130° to Tricarbonyl(η⁵-2,4-cyclopentadien-1-yl)ferrocenyltungsten, Fe-01541.Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1973, 2796 (*synth, ir, pmr*)Pannell, K.H. *et al*, *Inorg. Chem.*, 1976, **15**, 2671 (*synth, ms, ir, pmr*)**C₁₉H₁₅AsFeN₃O₃****Fe-01604****Carbonyldinitrosyl(triphenylarsine)iron, 9Cl, 8Cl**

[14767-45-4]



M 450.108

Red cryst. Mp 100-10° dec. Stable for a few days in dry air, dec. rapidly when moist.

Malatesta, L. *et al*, *J. Chem. Soc.*, 1957, 3803 (*synth*)Morris, D.E. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 2536 (*synth, ir*)Cullen, W.R. *et al*, *Inorg. Chem.*, 1971, **10**, 1616 (mössbauer, *esr*)**C₁₉H₁₅AsFeN₃O₂****Fe-01605****Cyanodinitrosyl(triphenylarsine)iron**

M 448.115

Mp 111°.

Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1970, **373**, 48.**C₁₉H₁₅BFeO₂****Fe-01606****Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)diphenylboraneiron**

Dicarbonyl-π-cyclopentadienyl(diphenylboryl)iron, 8Cl.

Dicarbonyl(η⁵-cyclopentadienyl)iron(diphenylborane).(η⁵-Cyclopentadienyl)dicarbonyl(diphenylboryl)iron

[12277-78-0]

As Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)-dichloroboraneiron, Fe-00169 with

M 341.983

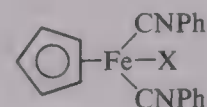
Beige solid. Mp 113-6°.

Schmid, G. *et al*, *Chem. Ber.*, 1967, **100**, 2899 (*synth*)**C₁₉H₁₅BrFeN₂****Fe-01607****Bromo(η⁵-2,4-cyclopentadien-1-yl)bis(isocyanobenzene)iron**

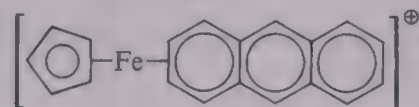
Bromo-π-cyclopentadienylbis(phenyl isocyanide)iron,

8Cl. Cyclopentadienylbis(phenyl isonitrile)iron bromide

[32610-32-5]



M 407.092

Purple cryst. (CH₂Cl₂/pet. ether). Mp 107°.Joshi, K.K. *et al*, *J. Organomet. Chem.*, 1963, **1**, 51 (*synth, ir*)Becker, W. *et al*, *Z. Naturforsch., B*, 1970, **25**, 1332 (*nmr, ir*)Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1979, **179**, 275 (*synth, pmr*)**C₁₉H₁₅Fe[⊕]****Fe-01608****[(1,2,3,4,4a,9a-η)-Anthracene](η⁵-2,4-cyclopentadien-1-yl)iron(1+), 10Cl**

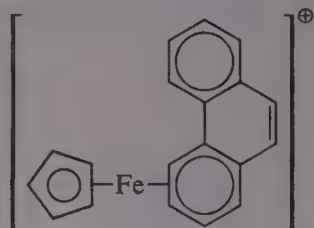
M 299.175 (ion)

Hexafluorophosphate:

C₁₉H₁₅F₆FeP M 444.139Yellow solid (MeCN/Et₂O or Me₂CO aq.).Morrison, W.H. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 3603 (*synth, cmr*)Morrison, W.H. *et al*, *Inorg. Chem.*, 1975, **14**, 500 (*uv*)Sutherland, R.G. *et al*, *J. Organomet. Chem.*, 1975, **101**, 221.

C₁₉H₁₅Fe⁺

Fe-01609

(η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,4a,10a-η)-phenanthrene]iron(1+), 10Cl

M 299.175 (ion)

Tetrafluoroborate: [32735-93-6].

C₁₉H₁₅BF₄Fe M 385.978

Mp 149-51°.

Hexafluorophosphate: [69005-60-3].

C₁₉H₁₅F₆FeP M 444.139Orange-yellow plates (Me₂CO/Et₂O). No definite M.p.Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1969, **20**, 169; *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1978, **242**, 1356 (synth, polarog)Morrison, W.H., *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 3603; *Inorg. Chem.*, 1975, **14**, 500 (synth, cmr, uv)Lee, C.C. *et al*, *J. Organomet. Chem.*, 1978, **162**, 253 (synth, pmr, cmr)C₁₉H₁₅FeIN₂

Fe-01610

(η⁵-2,4-Cyclopentadien-1-yl)iodobis(isocyanobenzene)iron, 9Cl

π-Cyclopentadienyliodobis(phenyl isocyanide)iron. Cyclopentadienylbis(phenyl isonitrile)iron iodide [55451-24-6]

As Bromo(η⁵-2,4-cyclopentadien-1-yl)-bis(isocyanobenzene)iron, Fe-01607 with

X = I

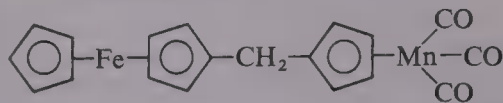
M 454.092

Red cryst. (CH₂Cl₂/pet. ether). Mp 104-5°.Joshi, K.K. *et al*, *J. Organomet. Chem.*, 1963, **1**, 51 (synth, ir)C₁₉H₁₅FeMnO₃

Fe-01611

Tricarbonyl[(1,2,3,4,5-η)-1-(ferrocenylmethyl)-2,4-cyclopentadien-1-yl]manganese

(Ferrocenylmethyl)cymantrene. (Ferrocenylmethyl)cyclopentadienylmanganese tricarbonyl



M 402.111

Orange cryst. Mp 121.5-122°.

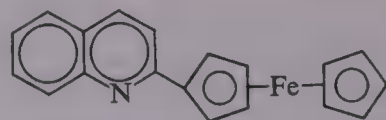
Cais, M. *et al*, *Tetrahedron Lett.*, 1961, 440 (synth)Maoz, N. *et al*, *Tetrahedron Lett.*, 1965, 2087, 2095 (ms)C₁₉H₁₅FeN

Fe-01612

2-Quinolinylferrocene, 9Cl

2-Ferrocenylquinoline. 2-Quinolylferrocene

[40687-01-2]



M 313.181

Cryst. (CH₂Cl₂/pet. ether). Mp 139-41°.Schlögl, K. *et al*, *Monatsh. Chem.*, 1963, **94**, 537 (synth)C₁₉H₁₅FeNO₂

Fe-01613

Dicarbonyl-π-cyclopentadienyl(diphenylamino)iron

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(N-phenylbenzenaminato)iron, 9Cl. N-

(Cyclopentadienyldicarbonyliron)diphenylamine

[59423-99-3]

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, Fe-00173 withX = -NPh₂

M 345.180

No phys. props. reported.

Inglis, T. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 562 (use)C₁₉H₁₅FeN₂O₃P

Fe-01614

Carbonyldinitrosyl(triphenylphosphine)iron, 9Cl, 8Cl

[14591-53-8]

Ph₃PFe(NO)₂CO

M 406.160

Deep-red cryst. (CH₂Cl₂/pentane). Mp 138-40° dec.McBride, D.W. *et al*, *Inorg. Chem.*, 1962, **1**, 386 (synth)Morris, D.E. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 2536 (synth, ir)Albano, V.G. *et al*, *J. Organomet. Chem.*, 1974, **67**, 413 (cryst struct)C₁₉H₁₅FeN₂O₃Sb

Fe-01615

Carbonyldinitrosyl(triphenylstibine)iron

[13926-74-4]

Ph₃SbFe(NO)₂CO

M 496.936

Orange-red cryst. Mp 105-15° dec. Stable in dry air for a few hours, oxidises spontaneously in moist air.

Hieber, W. *et al*, *Angew. Chem.*, 1956, **68**, 679 (synth)Malatesta, L. *et al*, *J. Chem. Soc.*, 1957, 3803 (synth)Beck, W. *et al*, *Chem. Ber.*, 1966, **99**, 3721 (ir)C₁₉H₁₅FeN₂O₆P

Fe-01616

Carbonyldinitrosyl(triphenyl phosphite-P)iron, 9Cl

[13926-75-5]

(PhO)₃PFe(NO)₂CO

M 454.158

No phys. props. recorded.

Beck, W. *et al*, *Chem. Ber.*, 1965, **98**, 2657 (synth, ir)Morris, D.E. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 2531, 2536 (synth, ir)C₁₉H₁₅FeN₃O₂P

Fe-01617

Cyanodinitrosyl(triphenylphosphine)iron

[25657-41-4]

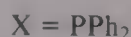
Ph₃PFeCN(NO)₂

M 404.167

Black cryst. (C₆H₆/pentane). Mp 128°. Paramagnetic.Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1970, **373**, 48 (*synth*, *ir*)**C₁₉H₁₅FeO₂P****Fe-01618****Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(diphenylphosphino)-iron, 9Cl**

(Cyclopentadienyldicarbonyliron)diphenylphosphine

[38816-40-9]

As Bromodicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, Fe-00173 with

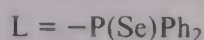
M 362.147

Dark-red oil.

Agapiou, A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1977, 393 (*synth*)Burckett-St. Laurent, J.C. *et al*, *Inorg. Chem.*, 1980, **19**, 577 (*synth*, *ir*)**C₁₉H₁₅FeO₂PSe****Fe-01619****Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(diphenylphosphino-selenoito-*P*)iron, 9Cl**(Dicarbonyl-π-cyclopentadienyliron)diphenylphosphine selenide. Dicarbonyl(η⁵-cyclopentadienyl)-

(diphenylphosphinoselenoato)iron

[59689-98-4]

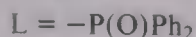
As Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl) (difluorophosphinothioyl-*P*)iron, Fe-00189 with

M 441.107

Yellow-orange solid (CH₂Cl₂/hexane).Piraino, P. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 610 (*synth*, *pmr*, *ir*)**C₁₉H₁₅FeO₃P****Fe-01620****Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(diphenylphosphinito-*P*)iron**

Dicarbonyl-π-cyclopentadienyl(diphenylphosphinyl)iron, 8Cl. Cyclopentadienyldicarbonyliron(diphenylphosphinite)

[34739-02-1]

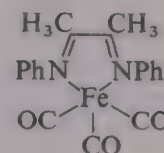
As Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl) (difluorophosphinothioyl-*P*)iron, Fe-00189 with

M 378.146

Orange cryst. (C₆H₆/pet. ether) or yellow cryst. (MeNO₂/Et₂O). Mp 208-10°.Haines, R.J. *et al*, *J. Organomet. Chem.*, 1971, **28**, 405 (*synth*, *ir*, *pmr*)Treichel, P.M. *et al*, *Inorg. Chem.*, 1981, **20**, 1539 (*synth*, *ir*, *pmr*)**C₁₉H₁₆FeN₂O₃****Fe-01621****Tricarbonyl[N,N'-(1,2-dimethyl-1,2-ethanediylidene)bis[benzenamine]-N,N']iron, 9Cl**

Tricarbonyl(1,4-diphenyl-2,3-dimethyl-1,4-diaza-1,3-butadiene)iron

[15651-58-8]

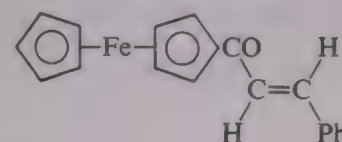


M 376.194

Red cryst. (hexane).

Otsuku, S. *et al*, *Inorg. Chem.*, 1967, **6**, 20 (*synth*, *ir*, *pmr*)tom Dieck, H. *et al*, *Angew. Chem.*, 1975, **87**, 246 (*synth*, *ir*)Shi, Q. *et al*, *Organometallics*, 1982, **1**, 1033 (*synth*, *ir*, *uv*)**C₁₉H₁₆FeO****Fe-01622****1-Ferrocenyl-3-phenyl-2-propen-1-one**

(1-Oxo-3-phenyl-2-propenyl)ferrocene, 9Cl. Cinnamoyl-ferrocene. Ferrocenyl styryl ketone



M 316.182

(E)-form [1292-30-4]

Red-orange cryst. (EtOH aq.). Mp 141-2°.

Oxime:

C₁₉H₁₇FeNO M 331.196

Orange-brown cryst. Mp 116-8°.

Hauser, C.R. *et al*, *J. Org. Chem.*, 1957, **22**, 428 (*synth*)Boichard, J. *et al*, *Bull. Soc. Chim. Fr.*, 1963, 851 (*synth*, *deriv*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1979, **169**, 77 (*ms*)Solcaniova, E. *et al*, *Org. Magn. Reson.*, 1980, **14**, 181 (*cmr*, *pmr*)**C₁₉H₁₆FeO****Fe-01623****3-Ferrocenyl-1-phenyl-2-propen-1-one**

(3-Oxo-3-phenyl-1-propenyl)ferrocene, 9Cl. β-Benzoyl-vinylferrocene. 1-Benzoyl-2-ferrocenylethylene

[12126-41-9]

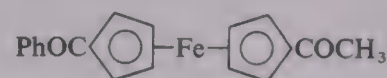


M 316.182

Orange-red cryst. Mp 136-7°, 140° (dimorph.).

Boichard, J. *et al*, *Bull. Soc. Chim. Fr.*, 1963, 851 (*synth*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1979, **169**, 77 (*ms*)Solcaniova, E. *et al*, *Org. Magn. Reson.*, 1980, **14**, 181 (*cmr*, *pmr*)**C₁₉H₁₆FeO₂****Fe-01624****1-Acetyl-1'-benzoylferrocene, 9Cl**

[31781-84-7]



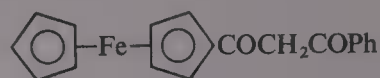
M 332.181

Red cryst. (hexane). Mp 72°.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1956, 605 (*synth*)

Dabard, R. *et al*, *Bull. Soc. Chim. Fr.*, 1973, 2158 (*synth*, *pmr*)**C₁₉H₁₆FeO₂****Fe-01625****(1,3-Dioxo-3-phenylpropyl)ferrocene, 9Cl***Benzoyl(ferrocenoyl)methane. 1-Ferrocenyl-3-phenyl-1,3-propanedione*

[41550-62-3]

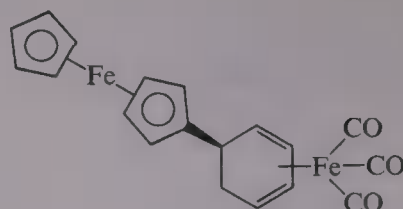


M 332.181

Purple cryst. (heptane). Mp 106-7°.

Hauser, C.R. *et al*, *J. Org. Chem.*, 1957, **22**, 482 (*synth*)**C₁₉H₁₆Fe₂O₃****Fe-01626****Tricarbonyl[(2,3,4,5-η)-2,4-cyclohexadien-1-yl]ferrocene]iron, 10Cl***Tricarbonyl[(2,3,4,5-η)-5-ferrocenyl-2,4-cyclohexadiene]iron*

[43047-50-3]



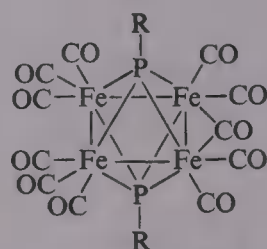
M 404.028

exo-form

Red oil.

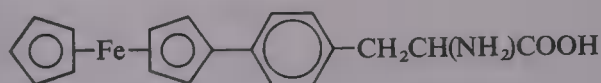
Kane-Maguire, L.A.P. *et al*, *J. Chem. Soc., Chem. Commun.*, 1973, 540 (*synth*)Nametkin, N.S. *et al*, *Rocz. Chem.*, 1976, **50**, 1499.**C₁₉H₁₈Fe₄O₁₁P₂****Fe-01627****μ-Carbonyldecacarbonylbis[μ₄-(1,1-dimethylethyl)phosphino]tetrairon***Bis(tert-butylphosphino)undecacarbonyltetrairon*

[81534-72-7]

R = (H₃C)₃C-

M 707.680

Black cryst.

Vahrenkamp, H. *et al*, *J. Organomet. Chem.*, 1982, **224**, C17 (*synth*, *ir*, *pmr*)Vahrenkamp, H. *et al*, *Organometallics*, 1982, **1**, 874.**C₁₉H₁₉FeNO₂****Fe-01628****[4-(2-Amino-2-carboxyethyl)phenyl]ferrocene***4-Ferrocenylphenylalanine*

M 349.212

(±)-form

Yellow cryst. Mp >300° dec.

Schlögl, K. *et al*, *Monatsh. Chem.*, 1957, **88**, 601 (*synth*)**C₁₉H₁₉FeOP****Fe-01629****[(1,2,3,4,5-η)-2-Acetyl-3,4-dimethyl-5-phenyl-1H-phosphol-1-yl](η⁵-2,4-cyclopentadien-1-yl)iron***(η⁵-2,4-Cyclopentadien-1-yl)[1-(1,2,3,4,5-η)-3,4-dimethyl-5-phenyl-1H-phosphol-2-yl]ethanonato]iron, 10Cl. 2-Acetyl-3,4-dimethyl-5-phenylphosphoferrocene*

[64867-22-7]

As (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-3,4-dimethyl-2-phenyl-1H-phosphol-1-yl]iron, Fe-01498 withR = -COCH₃

M 350.179

No phys. props. reported.

Mathey, F., *J. Organomet. Chem.*, 1977, **139**, 77 (*synth*, *ir*, *ms*, *pmr*)**C₁₉H₂₀FeOP₂****Fe-01630****[(1,2,3,4,5-η)-3,4-Dimethyl-1H-phosphol-1-yl][(1,2,3,4,5-η)-3,4-dimethyl-1H-phosphol-2-yl]phenylmethanonato]iron, 10Cl***2-Benzoyl-3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene*

[73153-31-8]

As [(1,2,3,4,5-η)-3,4-Dimethyl-1H-phosphole-2-carboxaldehydato][(1,2,3,4,5-η)-3,4-dimethyl-1H-phosphol-1-yl]iron, Fe-01102 with

R = CPh

M 382.161

Cryst. (C₆H₆). Mp 70°.de Lauzon, G. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 994 (*synth*, *ir*, *ms*, *pmr*, *nmr*)**C₁₉H₂₀Fe₂O₄****Fe-01631****μ-1,5-Pentanediyltetracarbonylbis(η⁵-2,4-cyclopentadien-1-yl)diiron, 9Cl**As μ-1,3-Propanediyltetracarbonylbis(η⁵-2,4-cyclopentadien-1-yl)diiron, Fe-01497 with

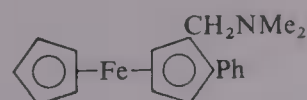
n = 5

M 424.059

Mp 82-3°.

King, R.B., *Inorg. Chem.*, 1963, **2**, 531 (*synth*, *ir*, *pmr*)**C₁₉H₂₁FeN****Fe-01632****1-[(Dimethylamino)methyl]-2-phenylferrocene, 9Cl***N,N-Dimethyl-2-phenylferrocenemethylamine*

[59418-43-8]



M 319.229

Mp 86.5-88°.

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1962, 1767 (*synth*)

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1976, **226**, 1092 (*synth, pmr*)

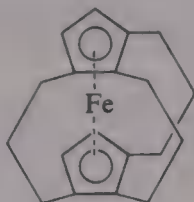
C₁₉H₂₂Fe

Fe-01633

[3][3][3](1,2,3)Ferrocenophane

1,1':2,2':3,3'-Tris(1,3-propanediyl)ferrocene, 9Cl. 1,1':
2,2':3,3'-Tris(trimethylene)ferrocene

[58803-11-5]



M 306.230

Yellow solid. Mp 178-81°. Bp_{0.08} 130° subl. Exhibits
cryst. modification at 138-48°.

Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 970 (*synth, uv, pmr*)

Nagy, A.G. *et al*, *CA*, 1976, **84**, 134742 (*mössbauer*)

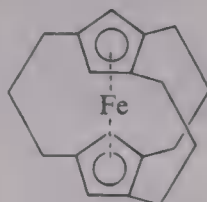
C₁₉H₂₂Fe

Fe-01634

[3][3][3](1,2,4)Ferrocenophane

1,1':2,2':4,4'-Tris(1,3-propanediyl)ferrocene, 9Cl. 1,1':
2,2':4,4'-Tris(trimethylene)ferrocene

[56045-61-5]



M 306.230

Pale-yellow needles (hexane). Mp 144-50°. Bp_{0.07} 115°
subl.

Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 970 (*synth, uv, pmr*)

Nagy, A.G. *et al*, *CA*, 1976, **84**, 134742 (*mössbauer*)

Hillman, M. *et al*, *J. Organomet. Chem.*, 1978, **155**, 87 (*struct*)

C₁₉H₂₂FeO₂

Fe-01635

Benzylpentamethyl-η⁵-cyclopentadienyldicarbonyliron

Dicarbonyl[(1,2,3,4,5-η)-1,2,3,4,5-pentamethyl-2,4-cy-
clopentadien-1-yl](phenylmethyl)iron, 9Cl

[43157-75-1]

As Dicarbonyl[(1,2,3,4,5-
η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]phe-
nyliron, Fe-01575 with

R = -CH₂Ph

M 338.229

Mp 91-2°.

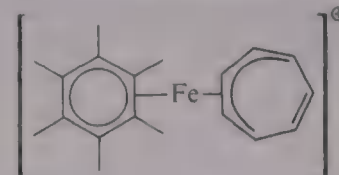
Jacobson, S.E. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 6962 (*synth, ir, pmr*)

C₁₉H₂₅Fe⁺

Fe-01636

[(1,2,3,4,5-η)-2,4,6-Cycloheptatrien-1-yl-

[(1,2,3,4,5,6-η)-hexamethylbenzene]iron(1+), 10Cl



M 309.254 (ion)

No phys. props. reported.

Bennett, M.A. *et al*, *J. Organomet. Chem.*, 1978, **153**, C25
(*synth*)

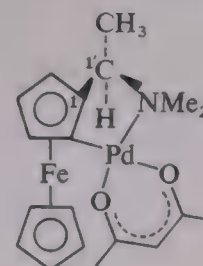
C₁₉H₂₅FeNO₂Pd

Fe-01637

[2-[1-(Dimethylamino)ethyl]ferrocenyl-C,N](2,4-pentanedio-
nato-O,O')palladium, 10Cl

Cyclo-1-(1'-dimethylaminoethyl)ferrocene-2-(acetylac-
etonato)palladium

[64913-26-4]



M 461.679

(1S,1'R)-form

R,S_{planar}-form

Cryst. (hexane). Mp 124°. [α]_D -450° (c, 0.5 in
CH₂Cl₂).

Troitskaya, L.L. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1977, **236**, 371; *Dokl. Chem. (Engl. Transl.)*, 1977, **236**, 527; *CA*, **88**, 7023k (*synth*)

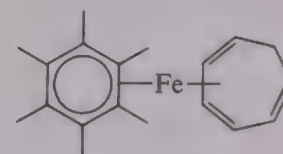
Kuz'min, L.G. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1979, 1528; *Bull. Acad. Sci. USSR, Div. Chem. Sci. (Engl. Transl.)*, 1979, **28**, 1417; *CA*, **92**, 42096r (*struct, abs config*)

C₁₉H₂₆Fe

Fe-01638

[(1,2,3,4-η)-1,3,5-Cycloheptatriene][(1,2,3,4,5,6-η)-hexamethylbenzene]iron, 10Cl

[67420-78-4]



M 310.261

Orange cryst. Toluene analogue also known.

Bennett, M.A. *et al*, *J. Organomet. Chem.*, 1978, **153**, C25
(*synth*)

Ittel, S.D. *et al*, *J. Organomet. Chem.*, 1979, **172**, C47.

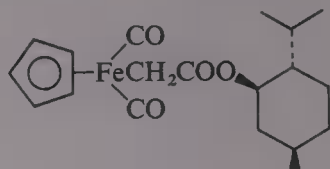
C₁₉H₂₆FeO₄

Fe-01639

Dicarbonyl(carboxymethyl)- π -cyclopentadienyliron menthyl ester

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[2-[[5-methyl-2-(1-methylethyl)cyclohexyl]oxy]-2-oxoethyl]iron, 9Cl.
 σ -Carboxymethyl- π -cyclopentadienyliron dicarbonyl menthyl ester

[59349-66-5]



M 374.259

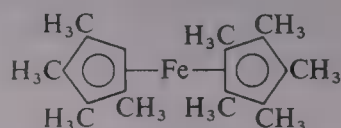
Amber oil.

Flood, T.C. *et al*, *Inorg. Chem.*, 1976, **15**, 1910 (*synth*)C₁₉H₂₈Fe

Fe-01640

1,1',2,2',3,3',4,4',5-Nonamethylferrocene, 9Cl

[41311-84-6]



M 312.277

Obt. as a mixt. with decamethylferrocene.

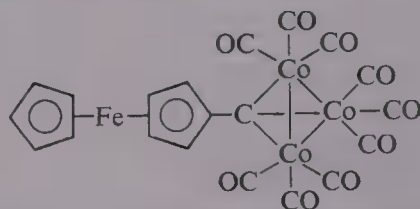
Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1972, **207**, 868 (*synth*)

C₂₀H₉Co₃FeO₉

Fe-01641

Nonacarbonyl[μ_3 -(ferrocenylmethylidyne)]tricobalt

[52215-96-0]



M 625.932

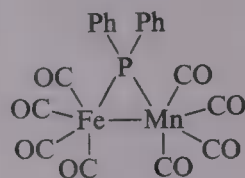
Black cryst. (hexane). Mp 75-7°.

Seyferth, D. *et al*, *J. Organomet. Chem.*, 1974, **65**, 99 (*synth*, *ir*, *pmr*)Seyferth, D. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 6724; 1981, **103**, 3320.C₂₀H₁₀FeMnO₈P

Fe-01642

Tetracarbonyl[μ -(diphenylphosphino)](tetracarbonylmanganio)iron, 8Cl

[32649-18-6]



M 520.053

Orange cryst. Mp 164-5°.

Benson, B.C. *et al*, *J. Chem. Soc., Chem. Commun.*, 1968, 1506 (*synth*)Yasufuku, K. *et al*, *J. Organomet. Chem.*, 1971, **28**, 415 (*synth*, *ir*)C₂₀H₁₀FeO₆

Fe-01643

Tetracarbonyl(1,4-dioxo-2,3-diphenyl-2-butene-1,4-diyl)iron

Tetracarbonyl(2,3-diphenylmaleoyl)iron

As Tetracarbonyl(1,4-dioxo-2-butene-1,4-diyl)iron, Fe-00248 with

R = Ph

M 402.142

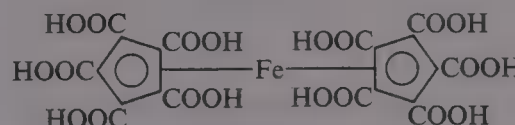
Orange needles (MeOH aq.). Mp 114-6°.

Case, J.R. *et al*, *Proc. Chem. Soc., London*, 1959, 150 (*synth*)Bird, C.W. *et al*, *J. Chem. Soc. (C)*, 1967, 1862 (*synth*, *ir*)C₂₀H₁₀FeO₂₀

Fe-01644

Ferrocenedecacarboxylic acid

Decacarboxyferrocene



M 626.134

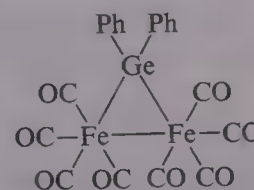
Deca-Me ether: [79151-52-3]. Decakis(methoxycarbonyl)ferrocene, 10Cl. Bis[penta(methoxycarbonyl)cyclopentadienide]iron.

C₃₀H₃₀FeO₂₀ M 766.402

Involatile, air-stable yellow solid, thermally stable >300°. Sol. H₂O. Fully ionised to Fe²⁺ in aq. soln.

Cookson, R.C. *et al*, *J. Chem. Soc. (C)*, 1967, 1986 (*synth*)Bruce, M. I. *et al*, *J. Chem. Soc., Chem. Commun.*, 1981, 428 (*synth*)C₂₀H₁₀Fe₂GeO₈

Fe-01645

Octacarbonyl(μ -diphenylgermylene)diiron

M 562.578

Yellow cryst.

Brooks, E.H. *et al*, *J. Am. Chem. Soc.*, 1969, **90**, 3587 (*synth*)C₂₀H₁₀Fe₂O₆

Fe-01646

Hexacarbonyl[μ -(η^2 : η^4 -1,2-phenylene(2-phenyl-1,2-ethenediyl))]diiron, 10Cl

Hexacarbonyl[μ -[o-phenylene(1-phenylvinylene)]]diiron, 8Cl. Tricarbonyl(1,1,1-tricarbonyl-2-phenylferraindene)iron

[59034-88-7]

As Hexacarbonyl[μ -(η^2 : η^4 -1,2-ethenediyl-1,2-phenylene)]diiron, Fe-01141 with

R = Ph

M 457.989

Red cryst. (C₆H₆/pet. ether or MeOH). Mp 150°.Hübel, W. *et al*, *J. Inorg. Nucl. Chem.*, 1959, **10**, 250 (*synth*, *ir*)Yolande, D. *et al*, *Acta Crystallogr.*, 1967, **23**, 119 (*struct*)

C₂₀H₁₀Fe₂O₈

Fe-01647

Bis[μ-(benzylidyneoxy)]hexacarbonyldiiron, 8Cl

Di-μ-benzoylhexacarbonyldiiron, 8Cl. Bis(μ-phenyloxy-carbenetricarbonyliron)

[23087-61-8]

As Bis[μ-(methylidyneoxy)]hexacarbonyldiiron, Fe-00498 with

R = Ph

M 489.988

Red-brown cryst. Mp 98° dec.

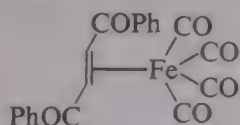
Fischer, E.O. *et al*, *J. Chem. Soc., Chem. Commun.*, 1968, 1378 (synth, ir, pmr, struct)Lindley, P.F. *et al*, *J. Chem. Soc. (A)*, 1969, 1279 (struct)Fischer, E.O. *et al*, *J. Organomet. Chem.*, 1970, 23, 215 (synth, ir, pmr, mössbauer)Kiener, V. *et al*, *J. Organomet. Chem.*, 1972, 42, 447 (ir, props)C₂₀H₁₂FeO₆

Fe-01648

Tetracarbonyl[(2,3-η)-1,4-diphenyl-2-butene-1,4-dione]iron, 9Cl

(1,2-Dibenzoyl ethylene)iron tetracarbonyl

[41757-29-3]



M 404.158

(E)-form [33271-06-6]

Yellow cryst. (MeOH). Mp 122-123.5° dec. Photolysis gives (Z)-form.

(Z)-form [33271-07-7]

Yellow cryst. (MeOH). Mp 112° dec.

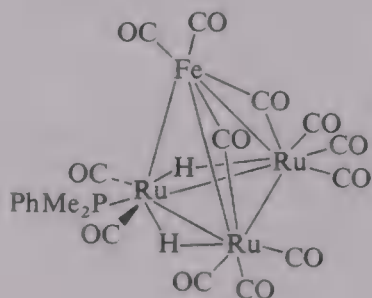
Andrianov, V.G. *et al*, *CA*, 1968, 69, 110946; 1972, 76, 132695 (struct)Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1971, 2739 (synth, ir, pmr)C₂₀H₁₃FeO₁₂PRu₃

Fe-01649

Di-μ-carbonyloctacarbonyl(dicarbonyliron)di-μ-hydro(dimethylphenylphosphine)triruthenium

Dodecacarbonyldihydro(dimethylphenylphosphine)iron-triruthenium

[74128-11-3]



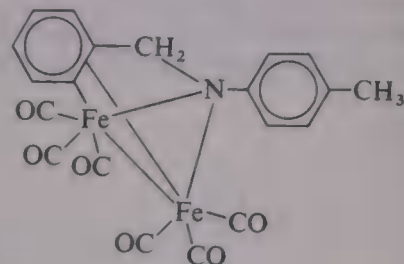
M 835.346

Fluxional molecule. Formed as a mixt. of isomers from which that shown crystallised preferentially. Red air-stable cryst. V. sol. CH₂Cl₂, spar. sol. hexane.Fox, J.R. *et al*, *Inorg. Chem.*, 1981, 20, 3214 (synth, cryst struct, spectra)C₂₀H₁₃Fe₂NO₆

Fe-01650

μ-(N-Benzylidene-4-methylaniline)hexacarbonyldiiron

μ-(N-Benzylidene-p-toluidine)hexacarbonyldiiron, 8Cl



M 475.020

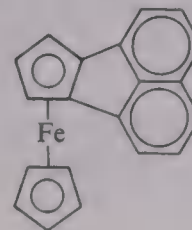
Deep red-brown cryst. (pet. ether). Mp 87°.

Baikie, P.E. *et al*, *J. Chem. Soc., Chem. Commun.*, 1966, 707 (struct)Bagga, M.M. *et al*, *J. Chem. Soc. (C)*, 1968, 36 (synth, ir, pmr, ms)C₂₀H₁₄Fe

Fe-01651

(8H-Cyclopent[a]acenaphthylenyl)cyclopentadienyliron

Acenaphthylferrocene. 1,2-peri-Naphthalenoferrrocene



M 310.178

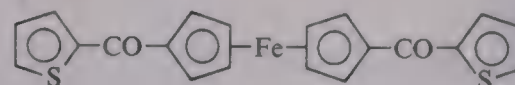
Solid. Mp 158-60°.

Little, W.F. *et al*, *Chem. Ind. (London)*, 1964, 195 (synth, pmr, uv)C₂₀H₁₄FeO₂S₂

Fe-01652

1,1'-Bis[(2-thienyl)carbonyl]ferrocene

1,1'-Di(2-thienoyl)ferrocene



M 406.296

Dark-red cryst. (C₆H₆). Mp 166-8°.Schlögl, K. *et al*, *Justus Liebigs Ann. Chem.*, 1962, 651, 1 (synth)C₂₀H₁₄Fe₂O₆S₂

Fe-01653

Bis(benzylthiolato)hexacarbonyldiiron

Bis[μ-(benzenemethanethiolato)]hexacarbonyldiiron, 9Cl. Bis(benzylthiotricarbonyliron)

[18771-08-9]

As Hexacarbonylbis[μ-(methanethiolato)]diiron, Fe-00281 with

R = -CH₂Ph

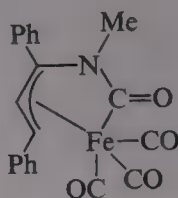
M 526.141

Dark-red solid. Mp 91-2°. Exists as mixt. of isomers.

Bor, G., *J. Organomet. Chem.*, 1968, 11, 195 (synth, ir)Ellgen, P.C. *et al*, *Inorg. Chem.*, 1973, 12, 2526 (synth, ir)Nemetkin, N.S. *et al*, *J. Organomet. Chem.*, 1978, 149, 355 (synth)

Seyferth, D. *et al*, *J. Organomet. Chem.*, 1980, **192**, C1 (*synth*)

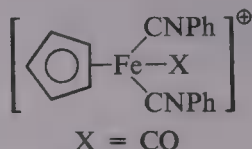
C₂₀H₁₅FeNO₄ **Fe-01654**
 Tricarbonyl[carbonyl(methylimino)[(1,2,3- η)-1,3-diphenyl-2-propene-3,1-diyl]iron, 10Cl
 [66740-97-4]



M 389.190

Air-stable yellow cryst. (MeOH). Mp 135° dec. Struct. determined for *N*-cyclohexyl analogue.Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1978, **149**, 177 (*synth*, *struct*, *ir*, *pmr*)

C₂₀H₁₅FeN₂O⁺ **Fe-01655**
 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)bis(isocyanobenzene)-iron(1+), 9Cl
 Carbonyl- π -cyclopentadienylbis(phenyl isocyanide)-iron(1+)



M 355.198 (ion)

Hexafluorophosphate: [55451-30-4].

C₂₀H₁₅F₆FeN₂OP M 500.162

Light-brown cryst. (EtOH). Mp 142°.

Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1975, **86**, C13 (*synth*)Fehlhammer, W.P. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1977, **16**, 641 (*synth*)

C₂₀H₁₅FeN₂S⁺ **Fe-01656**
 (Carbonothioyl)(η^5 -2,4-cyclopentadien-1-yl)bis(isocyanobenzene)iron(1+), 9Cl
 π -Cyclopentadienylbis(phenyl isocyanide)(thiocarbonyl)iron(1+)
 As Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-bis(isocyanobenzene)iron(1+), Fe-01655 with

X = -CS

M 371.259 (ion)

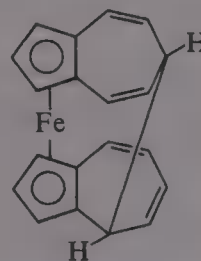
Hexafluorophosphate: [61113-53-9].

C₂₀H₁₅F₆FeN₂PS M 516.223

Brown (yellow) cryst.

Busetto, L. *et al*, *Inorg. Chim. Acta*, 1976, **19**, 233 (*synth*, *ir*, *pmr*)

C₂₀H₁₆Fe **Fe-01657**
 [(1,1',2,2',3,3',4a,4'a,8a,8'a- η)-[6,6'-Biazulene]diyl]iron
 Bis(azulene)iron, 8Cl

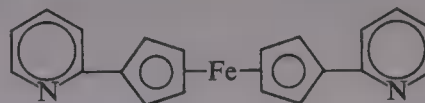


M 312.193

Orange cryst. by subl. Dec. ca 146°.

Fischer, E.O. *et al*, *J. Organomet. Chem.*, 1963, **1**, 464 (*synth*, *pmr*)Churchill, M.R. *et al*, *Inorg. Chem.*, 1969, **8**, 716 (*cryst struct*)

C₂₀H₁₆FeN₂ **Fe-01658**
 1,1'-Di-2-pyridinylferrocene, 9Cl
 Bis(2-pyridyl- π -cyclopentadienyl)iron. 1,1'-Di- α -pyridylferrocene. 1,1'-Bis(2-pyridyl)ferrocene
 [12248-70-3]

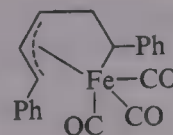


M 340.207

Dark-red needles (C₆H₆/heptane or CH₂Cl₂). Mp 179-80° (under N₂).Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1962, **147**, 634 (*synth*)Schlöggl, K. *et al*, *Monatsh. Chem.*, 1963, **94**, 537 (*synth*)

C₂₀H₁₆FeN₂ **Fe-01659**
 1,1'-Di(3-pyridinyl)ferrocene, 9Cl
 1,1'-Bis(3-pyridyl)ferrocene
 M 340.207
 Cryst. (C₆H₆/pet. ether). Mp 141-4°.
 Schlöggl, K. *et al*, *Monatsh. Chem.*, 1963, **94**, 537 (*synth*)

C₂₀H₁₆FeO₃ **Fe-01660**
 Tricarbonyl[(1,2,3,5- η)-1,5-diphenyl-2-pentene-1,5-diyl]iron, 9Cl
 [58939-06-3]



M 360.192

Air-sensitive, thermally unstable yellow oil.

Whitesides, T.H. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 63 (*synth*, *ir*, *pmr*)

C₂₀H₁₆FeO₃Si **Fe-01661**
 Tricarbonyl[(2,3,4,5- η)-1,1-diphenylsilacyclohexa-2,4-diene]iron, 10Cl
 [69004-76-8]
 As Tricarbonyl[(2,3,4,5- η)-1-sila-2,4-cyclohexadiene]iron, Fe-00304 with

R = Ph

M 388.277

Yellow cryst. (heptane). Mp 56-8°.

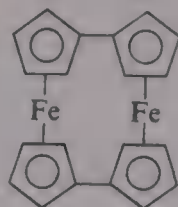
Chernyshev, E.A. *et al*, *Zh. Obshch. Khim.*, 1978, **48**, 2261
(*synth, struct, ms*)

C₂₀H₁₆Fe₂

Fe-01662

1,1'':1',1'''-Biferrocene, 9Cl

1,1'-Biferrocenylenes. Bis(fulvalene)diiron
[11105-90-1]



M 368.040

Deep-red powder (C₆H₆) or orange needles. Mp >300°
dec. Undergoes aromatic subns.

Churchill, M.R. *et al*, *Inorg. Chem.*, 1969, **8**, 1970 (*cryst struct*)

Hedberg, F.L. *et al*, *J. Am. Chem. Soc.*, 1969, **91**, 1258 (*synth*)

Cowan, D.O. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 9271.

Mueller-Westerhoff, U.T. *et al*, *J. Am. Chem. Soc.*, 1972, **94**,
9272; *Tetrahedron Lett.*, 1973, 1855 (*synth, props*)

Pittman, C.U. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 7916 (*synth*,
ir)

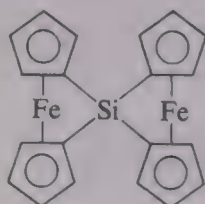
Kirchner, R.F. *et al*, *Inorg. Chem.*, 1976, **15**, 2665.

C₂₀H₁₆Fe₂Si

Fe-01663

1,1',1'',1'''-Silanetetraylbisferrocene, 9Cl

Bis(1,1'-Ferrocenediyl)silane
[58058-01-8]



M 396.126

Red air stable solid.

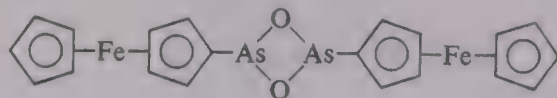
Osborne, A.G. *et al*, *J. Organomet. Chem.*, 1975, **101**, C27
(*synth*)

C₂₀H₁₈As₂Fe₂O₂

Fe-01664

Ferrocenyloxoarsine

(1,3,2,4-Dioxadiarsetanediyl)dicyclopentadienylene)bis-
(cyclopentadienyl)iron. Arsenosoferrrocene



M 551.898

Pale-yellow cryst. Mp 261-2° (gradual darkening above
250°). Attempts at recrystallisation from CHCl₃,
C₆H₆ or EtOH result in polymerisation. Instantaneous
Mp 275.5-276.0°.

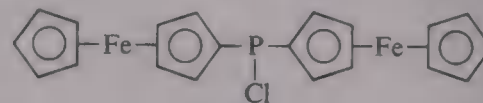
Sollett, G.P. *et al*, *J. Org. Chem.*, 1965, **30**, 389 (*synth, ir*)

C₂₀H₁₈ClFe₂P

Fe-01665

Chlorodiferrocenylphosphine

(1,1''-Chlorophosphinidene)bisferrocene, 10Cl. 1,1''-
(Chlorophosphinylidene)bisferrocene, 9Cl. Diferrocenyl-
phosphinous chloride
[57533-56-9]



M 436.483

Yellow cryst. or orange needles (heptane). Mp 183-4°.

Sollott, G.P. *et al*, *J. Organomet. Chem.*, 1965, **4**, 491; 1969, **19**,
143 (*synth, ir*)

Baxter, S.G. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 714
(*mössbauer, nmr*)

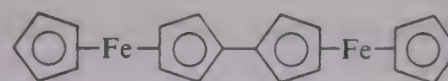
C₂₀H₁₈Fe₂

Fe-01666

1,1''-Biferrocene, 9Cl

Biferrocenyl

[1287-38-3]



M 370.056

Dark-orange cryst. (hexane). Mp 239-40° dec.

Rausch, M.D., *J. Org. Chem.*, 1961, **26**, 1802.

MacDonald, A.C. *et al*, *Acta Crystallogr.*, 1964, **17**, 872 (*cryst*
struct)

Sato, M. *et al*, *Bull. Chem. Soc. Jpn.*, 1970, **43**, 2213 (*synth*)

Bitterwolf, T.E. *et al*, *J. Organomet. Chem.*, 1973, **57**, C15
(*pmr*)

Gmelin's *Handbuch der Anorg. Chem.*, 8th Ed., 1977, Suppl. A6
(*bibl*)

Koridze, A.A. *et al*, *Koord. Khim.*, 1981, **7**, 605 (*cmr*)

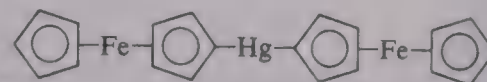
C₂₀H₁₈Fe₂Hg

Fe-01667

Diferrocenylmercury, 8Cl

(Ferrocenylmercurio)ferrocene, 9Cl

[1274-09-5]



M 570.646

Orange cryst. (xylene). Mp 235-6° dec.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR*, 1955, **100**,
1099; *CA*, **50**, 2558 (*synth*)

Rausch, M. *et al*, *J. Org. Chem.*, 1957, **22**, 900; 1963, **28**, 3337
(*synth, spectra*)

Wertheim, G.K. *et al*, *J. Chem. Phys.*, 1963, **38**, 2106
(*mössbauer*)

Breuer, S.W. *et al*, *J. Chem. Soc. (C)*, 1971, 3519 (*ms*)

Roling, P.V. *et al*, *Synth. React. Inorg. Metal-Org. Chem.*,
1971, **1**, 97 (*synth*)

Nesmeyanov, A.N. *et al*, *Zh. Strukt. Khim.*, 1973, **14**, 49 (*cmr*)

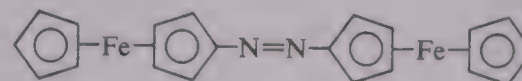
C₂₀H₁₈Fe₂N₂

Fe-01668

1,1''-Azobisferrocene

Diferrocenyldiazene. Azoferrocene

[11078-02-7]



M 398.070

Violet needles (C₆H₆). Mp 256-8° dec.

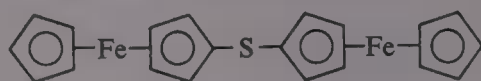
Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci.*
Khim., 1961, **138**, 1118 (*synth, uv*)

Nesmeyanov, A.N. *et al*, *Zh. Strukt. Khim.*, 1973, **14**, 49 (*cmr*)

C₂₀H₁₈Fe₂S

Fe-01669

1,1''-Thiobisferrocene

(Thiodicyclopentadienylene)bis[cyclopentadienyl]iron.
Diferrocenyl sulfide

M 402.116

Orange needles (heptane). Mp 161.5-162°.

S,S-Dioxide: [1272-95-3]. 1,1'-Sulfonyldiferrocene, 8Cl.
1,1'-Sulfonylbisferrocene. Diferrocenyl sulfone.C₂₀H₁₈Fe₂O₂S M 434.115

Red-orange cryst. (butanol). Mp 270-5° dec.

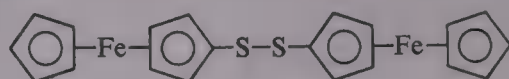
Nesmeyanov, A.N. et al, Dokl. Akad. Nauk SSSR, Ser. Sci.
Khim., 1958, **119**, 288 (dioxide)Rausch, M.D., J. Org. Chem., 1961, **26**, 3579 (synth, ir)Abramovitch, R.A. et al, Inorg. Chem., 1975, **14**, 3085
(mössbauer)C₂₀H₁₈Fe₂S₂

Fe-01670

1,1''-Dithiobisferrocene, 10Cl

(Dithiodicyclopentadienylene)bis[cyclopentadienyl]iron.
Diferrocenyl disulfide

[70568-78-4]



M 434.176

Golden-yellow plates (C₆H₆). Mp 192°.

Knox, G.R. et al, J. Chem. Soc., 1958, 692 (synth)

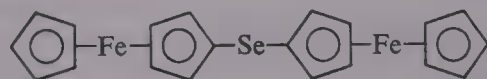
C₂₀H₁₈Fe₂Se

Fe-01671

1,1''-Selenobisferrocene, 9Cl

Diferrocenyl selenide

[58463-77-7]

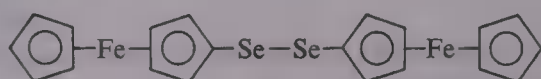


M 449.016

Bright-orange cryst. (EtOH) or pale-orange needles
(hexane). Mp 151-3°, 163-5°.Nesmeyanov, A.N. et al, Dokl. Akad. Nauk SSSR, Ser. Sci.
Khim., 1958, **119**, 288 (synth)Shu, P. et al, J. Org. Chem., 1976, **41**, 1849 (synth, ir, pmr, ms,
uv)Osborne, A.G. et al, J. Organomet. Chem., 1981, **205**, 395
(synth, pmr)C₂₀H₁₈Fe₂Se₂

Fe-01672

1,1''-Diselenobisferrocene, 10Cl

Bis(ferrocenyl)diselenide. Diferrocenyl diselenide
[58463-78-8]

M 527.976

Orange platelets (hexane). Mp 192-5° (181-3°).

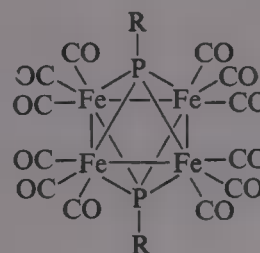
Shu, P. et al, J. Org. Chem., 1976, **41**, 1847 (synth, ms, pmr)Osborne, A.G. et al, J. Organomet. Chem., 1981, **205**, 395
(synth, pmr)C₂₀H₁₈Fe₄O₁₂P₂

Fe-01673

Dodecacarbonylbis[μ₄-(1,1-dimethylethyl)phosphino]tetrairon

Bis(tert-butylphosphino)tetra(tricarbonyliron)

[81478-18-4]

R = (H₃C)₃C-

M 735.691

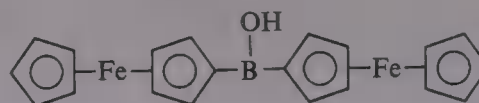
Red cryst.

Vahrenkamp, H. et al, J. Organomet. Chem., 1982, **224**, C17
(synth, ir, pmr)Vahrenkamp, H. et al, Organometallics, 1982, **1**, 874.C₂₀H₁₉BF₂O

Fe-01674

Diferrocenylhydroxyborane

Diferrocenylborinic acid, 8Cl. (Borinic acid)diferrocene



M 397.874

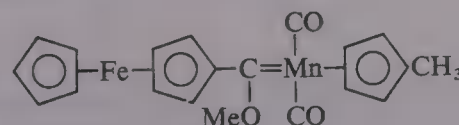
Air-stable orange-red cryst. Mp 159-61°.

Post, E.W. et al, Inorg. Chem., 1970, **9**, 1670 (synth, ms, pmr,
ir)C₂₀H₁₉FeMnO₃

Fe-01675

Dicarbonyl[(1,2,3,4,5-η)-1-methyl-2,4-cyclopentadien-1-yl-]
(ferrocenylmethoxymethylene)manganese, 9Cl[Ferrocenyl(methoxy)carbene]methylcyclopentadienyl-
dicarbonylmanganese

[35226-88-1]



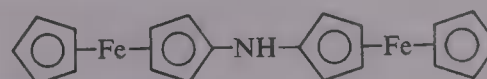
M 418.153

Red-brown cryst. (pentane). Mp 53-4°.

Connor, J.A. et al, J. Chem. Soc., Dalton Trans., 1972, 1470
(synth, pmr, ir, uv, ms)C₂₀H₁₉Fe₂N

Fe-01676

1,1''-Iminobisferrocene

N,N-Diferrocenylamine. (Iminodicyclopentadienylene)-
bis(cyclopentadienyl)iron

M 385.071

Yellow cryst. (hexane). Sol. Et₂O, EtOH, C₆H₆, spar.
sol. hexane. Mp 152-3°.

N-Ac:

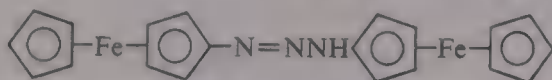
C₂₂H₂₁Fe₂NO₂ M 443.107Yellow cryst. (heptane). Sol. Et₂O, C₆H₆. Mp 176°.Nesmeyanov, A.N. et al, Dokl. Akad. Nauk SSSR, Ser. Sci.
Khim., 1965, **161**, 1085 (synth)

C₂₀H₁₉Fe₂N₃

Fe-01677

1,3-Diferrocenyl-1-triazene

(1-Triazene-1,3-diyl)bisferrocene. [(Diazoamino)dicyclopentadienylene]biscyclopentadienyliron. [(Ferrocenyldiazo)amino]ferrocene. Diazoaminoferrocene



M 413.084

Brownish-red cryst. (C₆H₆/hexane). Mp 150-2° dec.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1963, **150**, 102, 321 (*synth*)

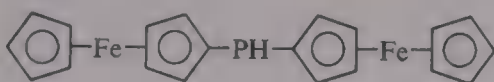
C₂₀H₁₉Fe₂P

Fe-01678

Diferrocenylphosphine

1',1''-Phosphinidenebisferrocene, 9Cl

[39385-09-6]



M 402.038

No phys. props. reported.

Nesmeyanov, A.N. *et al*, *Zh. Strukt. Khim.*, 1973, **14**, 49 (*cmr*)

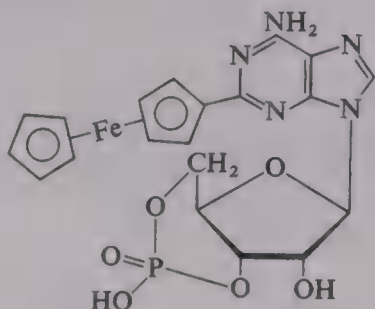
C₂₀H₂₀FeN₅O₆P

Fe-01679

2-Ferrocenylcyclic AMP

[6-Amino-9-(3,5-O-phosphinico-β-D-ribofuransyl)-9H-purin-2-ylferrocene, 9Cl. 2-Ferrocenyladenosine cyclic 3',5'-phosphate

[52970-00-0]



M 513.229

Meyer, R.B. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 4962 (*synth, uv*)

Meyer, R.B. *et al*, *Biochemistry*, 1975, **14**, 3315 (*props*)

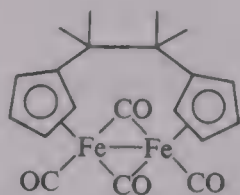
C₂₀H₂₀Fe₂O₄

Fe-01680

Di-μ-carbonyldicarbonyl

yl[μ-[(1,2,3,4,5-η:1',2',3',4',5'-η)-(1,1,2,2-tetramethyl-1,2-ethanediyl)di-2,4-cyclopentadien-1-ylidene]]diiron, 9Cl

[57774-48-8]



M 436.070

Red cryst. (C₆H₆/pet. ether). Mp 216-20° dec.

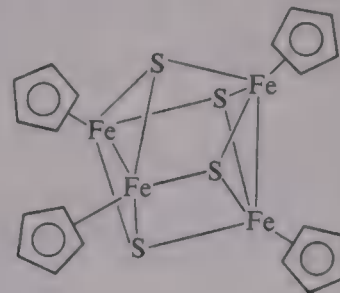
Weiss, E. *et al*, *Chem. Ber.*, 1962, **95**, 1186 (*synth*)

Cotton, F.A. *et al*, *Inorg. Chem.*, 1976, **15**, 557 (*synth, pmr, ir, cmr*)

C₂₀H₂₀Fe₄S₄

Fe-01681

Tetrakis(η⁵-2,4-cyclopentadien-1-yl)tetra-μ₃-thioxotetrairon
Tetra-π-cyclopentadienyltetra-μ₃-thioxotetrairon, 8Cl



M 612.006

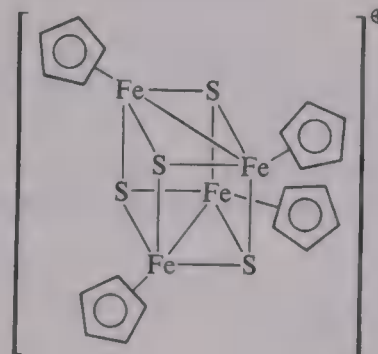
Tetrahedral arrangement of Fe atoms. Black cryst. (PhBr or CHCl₃/octane). Mp 230-40° dec.

Schunn, R.A. *et al*, *Inorg. Chem.*, 1966, **5**, 892 (*synth, struct, ir*)
Wei, C.H. *et al*, *Inorg. Chem.*, 1966, **5**, 900 (*synth, struct, ir*)

C₂₀H₂₀Fe₄S₄⁺

Fe-01682

Tetrakis(η⁵-2,4-cyclopentadien-1-yl)tetra-μ₃-thioxotetrairon(1+), 10Cl



M 612.006 (ion)

Bromide: [62047-18-1].

C₂₀H₂₀BrFe₄S₄ M 691.910

Cryst.

Tetrafluoroborate:

C₂₀H₂₀BF₄Fe₄S₄ M 698.810

Black shiny cryst. (MeCN).

Tribromide:

C₂₀H₂₀Br₃Fe₄S₄ M 851.718Black cryst. (MeNO₂).

Tetraiodide:

C₂₀H₂₀Fe₄I₄S₄ M 1119.624

Dark-brown cryst. Lattice prob. contains two kinds of anion, either I⁺ + I₇⁺ or I₃⁺ + I₅⁺.

Trinh-Toan, W. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 402 (*synth, cryst struct*)

Wong, H. *et al*, *Inorg. Chem.*, 1978, **17**, 194 (*synth, mössbauer*)

C₂₀H₂₂Fe₂O₄

Fe-01683

μ-1,6-Hexanediyltetracarbonylbis(η⁵-2,4-cyclopentadien-1-yl)diiron, 9Cl

As μ-1,3-Propanediyltetracarbonylbis(η⁵-2,4-cyclopentadien-1-yl)diiron, Fe-01497 with

n = 6

M 438.085

Orange. Mp 98-100°.

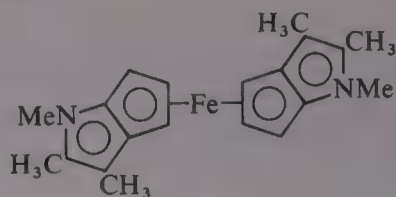
King, R.B., *Inorg. Chem.*, 1963, **2**, 531 (*synth, ir, pmr*)

C₂₀H₂₄FeN₂

Fe-01684

Bis[(3*a*,4,5,6,6*a*- η)-1,2,3-trimethylcyclopenta[*b*]pyrro-1-3*a*(1*H*)-yl]iron, 9ClBis(1,2,3-trimethylpyrrolo[*b*])ferrocene

[57676-67-2]



M 348.270

Possibly a mixt. of isomers. Dark-red cryst. Mp 117-9°.

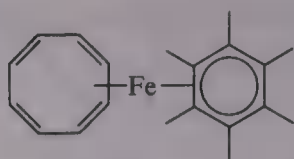
Gives an orange tetrahydro-deriv. on hydrogenation.

Volz, H. *et al*, *Tetrahedron Lett.*, 1975, 3209 (*synth*, *ms*, *pmr*, *uv*)C₂₀H₂₆Fe

Fe-01685

[(1,2,3,4- η)-1,3,5,7-Cyclooctatetraene][(1,2,3,4,5,6- η)-hexamethylbenzene]iron, 10Cl

[72765-33-4]



M 322.272

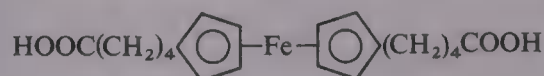
Fluxional. Air-sensitive black cryst. (hexane). Gives deep red-brown solns.

Bennett, M.A. *et al*, *Inorg. Chem.*, 1980, 19, 1014 (*synth*, *ms*, *ir*, *pmr*, *cmr*)C₂₀H₂₆FeO₄

Fe-01686

1,1'-Ferrocenedipentanoic acid

1,1'-Bis(4-carboxybutyl)ferrocene. Ferrocene-1,1'-bis(valeric acid). Ferrocene-1,1'-bis(4-carboxybutane)



M 386.270

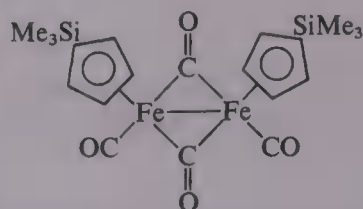
Yellow-orange cryst. (EtOAc/pet. ether). Mp 151-5°.

Schlögl, K. *et al*, *Monatsh. Chem.*, 1960, 90, 79 (*synth*)C₂₀H₂₆Fe₂O₄Si₂

Fe-01687

Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1-trimethylsilyl-2,4-cyclopentadien-1-yl]diironTetracarbonylbis[(trimethylsilyl)- π -cyclopentadienyl]diiron, 8Cl. Bis[trimethylsilylcyclopentadienyldicarbonyliron]. Di(trimethylsilylcyclopentadienyl)diiron tetracarbonyl

[12570-83-1]



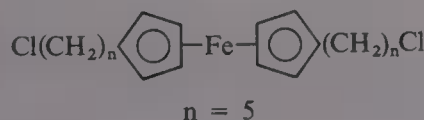
M 498.288

Dark-red needles (hexane). Mp 97-9°, 106-7°. Bp_{0.001} 65-70° subl.Kraihanzel, C.S. *et al*, *J. Organomet. Chem.*, 1970, 23, 357(*synth*, *pmr*)Abel, E.W. *et al*, *J. Organomet. Chem.*, 1971, 28, 211 (*synth*, *ir*, *pmr*)C₂₀H₂₈Cl₂Fe

Fe-01688

1,1'-Bis(5-chloropentyl)ferrocene, 9Cl

[56778-61-1]



n = 5

M 395.194

Yellow-orange oil.

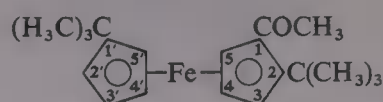
Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, 92, 341 (*synth*, *ir*, *pmr*, *cmr*, *ms*)C₂₀H₂₈FeO

Fe-01689

1-Acetyl-1',2-di-*tert*-butylferrocene

1-Acetyl-1',2-bis(1,1-dimethylethyl)ferrocene, 9Cl

[52472-35-2]



M 340.288

Dark-red liq.

Turbitt, T.D. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1974, 189 (*synth*, *pmr*)C₂₀H₂₈FeO

Fe-01690

1-Acetyl-1',3-di-*tert*-butylferrocene

1-Acetyl-1',3-bis(1,1-dimethylethyl)ferrocene, 9Cl

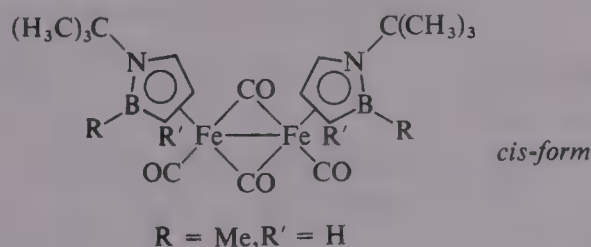
[52537-38-9]

M 340.288

Dark-red liq.

Turbitt, T.D. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1974, 189 (*synth*, *pmr*)C₂₀H₃₀B₂Fe₂N₂O₄

Fe-01691

Di- μ -carbonyldicarbonylbis[(3,4,5- η)-1-(1,1-dimethylethyl)-2,3-dihydro-2-methyl-1*H*-1,2-azaborol-3-yl-*B*²,*N*¹]-diiron, 10ClTetracarbonylbis(η^5 -1-*tert*-butyl-2-methyl-1,2-azaborolynyl)diiron

R = Me, R' = H

M 495.782

Two isomers which interconvert in soln.

cis-form [75325-34-7]

Characterised spectroscopically.

trans-form [75364-55-5]

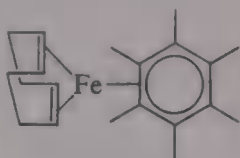
Dark-red cryst. (toluene/pet. ether).

Schulze, J. *et al*, *J. Organomet. Chem.*, 1980, 193, 83 (*synth*, *ms*, *ir*, *pmr*, *nmr*)

C₂₀H₃₀Fe

Fe-01692

[(1,2,5,6- η)-1,5-Cyclooctadiene][(1,2,3,4,5,6- η)-hexamethylbenzene]iron, 10Cl
[67420-79-5]



M 326.304

Thermally unstable orange-red complex.

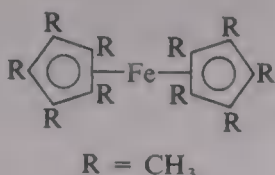
Bennett, M.A. *et al*, *J. Organomet. Chem.*, 1978, **153**, C25 (synth)

C₂₀H₃₀Fe

Fe-01693

Decamethylferrocene, 9Cl

Bis(1,2,3,4,5-pentamethyl- π -cyclopentadienyl)iron
[12126-50-0]



M 326.304

Yellow cryst. by subl. Mp 291-5°. Bp_{0.1} 100-20° subl.

King, R.B. *et al*, *J. Organomet. Chem.*, 1967, **8**, 287 (synth, ir, pmr, uv, ms)

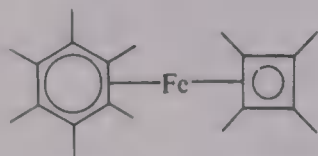
Freyberg, D.P. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 892 (struct)

Materikova, R.B. *et al*, *J. Organomet. Chem.*, 1981, **219**, 259 (pmr, cmr)

C₂₀H₃₀Fe

Fe-01694

[(1,2,3,4,5,6- η)-Hexamethylbenzene][(1,2,3,4- η)-tetramethyl-1,3-cyclobutadiene]iron



M 326.304

Brown-gold solid. Bp 40° in vacuo subl. Not well characterised.

Weber, S.R. *et al*, *J. Organomet. Chem.*, 1977, **127**, 45 (synth, ms)

C₂₀H₃₆N₄O₈Fe

Fe-01695

Ferrioxamine H

[HOOCCH₂CH₂CONH(CH₂)₅N(OH)CO-CH₂CH₂CONH(CH₂)₅N(OH)Ac]Fe

M 516.373

Minor component of the Sideramine complex of actinomycetes. Red amorph. powder.

Adapa, S. *et al*, *Helv. Chim. Acta*, 1982, **65**, 1818.

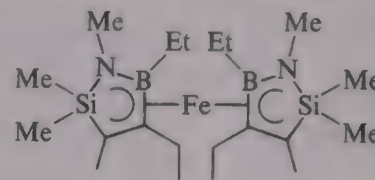
C₂₀H₄₄B₂FeN₂Si₂

Fe-01696

Bis[(3,4- η)-4,5-diethyl-1,2,2,3-tetramethyl-1-aza-2-sila-5-boracyclopent-3-ene-B⁵,N¹]iron

Bis(η^4 -4,5-diethyl-1,2,2,3-tetramethyl-1,2,5-azasilaboroline)iron

[81923-59-3]



M 446.219

Paramagnetic 16-electron complex. Dark-red cryst. Bp_{0.001} 40° subl.

Köster, R. *et al*, *Chem. Ber.*, 1982, **115**, 738 (synth, ms)

C₂₁H₁₀Fe₃N₂O₉

Fe-01697

Bis[μ_3 -anilinato(2-)]nonacarbonyltriiron

Bis[μ_3 -benzeneaminato(2-)]nonacarbonyltriiron, 9Cl.

Bis(phenylnitreno)enneacarbonyltriiron

[33519-79-8]

As Nonacarbonylbis[μ_3 -[methanaminato(2-)]]triiron, Fe-00664 with

R = R' = Ph

M 601.859

Black cryst. (pentane). Mp 143°.

Landesberg, J.M. *et al*, *J. Org. Chem.*, 1972, **37**, 930 (synth, ms, pmr, ir, uv)

Rossetti, R. *et al*, *J. Coord. Chem.*, 1974, **3**, 217.

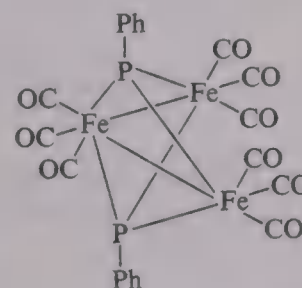
C₂₁H₁₀Fe₃O₉P₂

Fe-01698

Nonacarbonylbis[μ_3 -(phenylphosphinylidene)]triiron, 9Cl

Bis(μ_3 -phenylphosphido)tris(tricarbonyliron). Nonacarbonylbis[μ_3 -(phenylphosphinidene)]triiron

[38903-71-8]



M 635.793

Red cryst. (Me₂CO aq.). Mp 130-5°.

Treichel, P.M. *et al*, *Inorg. Chem.*, 1972, **11**, 1609 (synth, ir, ms)

Lampin, J.P. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1976, **282**, 979 (synth, pmr, nmr)

Seyferth, D. *et al*, *Organometallics*, 1982, **1**, 1294 (synth, ir, ms)

C₂₁H₁₂FeO₅

Fe-01699

Tricarbonyl(1,2-dibenzoyl-1,3-cyclobutadiene)iron, 8Cl

Tricarbonyl[(η^4 -1,3-cyclobutadiene-1,2-diyl)bis[phenylmethanone]]iron, 9Cl

[32965-35-8]

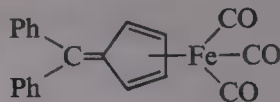
As Tricarbonyl(η^4 -1,2-diiodo-1,3-cyclobutadiene)iron, Fe-00147 with

R = —COPh

M 400.170

Yellow plates (CCl₄/hexane). Mp 171-3°.Berens, G. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 7076 (*synth*, *ir*, *pmr*)**C₂₁H₁₄FeO₃****Fe-01700****Tricarbonyl(2,4-cyclopentadien-1-ylidenediphenylmethane)-iron***Tricarbonyl*[[[(2,3,4,5-η)-2,4-cyclopentadien-1-ylidene]phenylmethyl]benzene]iron, 9Cl. (6,6-Diphenylfulvene)iron tricarbonyl

[57842-64-5]



M 370.187

Violet prisms (pet. ether). Mp ca. 175° dec.

Weiss, E. *et al*, *Chem. Ber.*, 1962, **95**, 1186 (*synth*, *ir*)Behrens, U. *et al*, *J. Organomet. Chem.*, 1975, **96**, 399 (*synth*, *ir*, *pmr*)**C₂₁H₁₅AuFeNO₄P****Fe-01701****Tricarbonylnitrosyl[(triphenylphosphine)aurio]iron, 8Cl**

[33989-35-4]

Ph₃PAuFe(CO)₃NO

M 629.141

Yellow cryst. (pentane). Mp 98-9° dec.

Casey, M. *et al*, *J. Chem. Soc. (A)*, 1971, 2989 (*synth*, *ir*)**C₂₁H₁₅Br₂FeO₆P****Fe-01702****Dibromotricarbonyl(triphenyl phosphite-P)iron, 9Cl**

[15388-85-9]

(PhO)₃PFeBr₂(CO)₃

M 609.975

Stereochemistry not known. Orange solid.

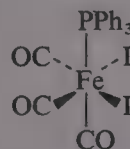
Bancroft, G.M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 2103 (*synth*, *mössbauer*, *ir*)**C₂₁H₁₅FeGeNO₄****Fe-01703****Tricarbonylnitrosyl(triphenylgermyl)iron, 8Cl***Triphenyl(tricarbonylnitrosyliron)germanium*

[31276-14-9]

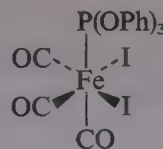
Ph₃GeFe(CO)₃NO

M 473.791

Yellow cryst. (hexane). Mp 131-3°.

Cleland, A.J. *et al*, *J. Chem. Soc. (A)*, 1971, 736 (*synth*, *ir*)**C₂₁H₁₅FeI₂O₃P****Fe-01704****Tricarbonyldiiodo(triphenylphosphine)iron, 10Cl***Triphenylphosphineiron tricarbonyl iodide*

M 655.977

Red-brown cryst. (Me₂CO aq. or C₆H₆/ligroin). Insol.Et₂O, pet. ether. Mp 116° dec. Slowly evolves CO in soln.Hallam, B.F. *et al*, *J. Chem. Soc.*, 1956, 3030 (*synth*)Bancroft, G.M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 2103 (*synth*, *ir*, *mössbauer*)Pankowski, M. *et al*, *J. Organomet. Chem.*, 1977, **125**, 231 (*ir*)**C₂₁H₁₅FeI₂O₆P****Fe-01705****Tricarbonyldiiodo(triphenyl phosphite-P)iron***Tricarbonyldiiodo(phosphorous acid)iron triphenyl ester. Triphenylphosphiteiron tricarbonyl iodide*

M 703.976

Large purple prisms; red cryst. (Et₂O). Mp 115° dec.Reed, H.W.B., *J. Chem. Soc.*, 1954, 1931 (*synth*)Bancroft, G.M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 2103 (*synth*, *ir*, *mössbauer*)**C₂₁H₁₅FeNO₄Pb****Fe-01706****Tricarbonylnitrosyl(triphenylplumbyl)iron, 8Cl***(Tricarbonylnitrosyliron)triphenyllead*

[31276-16-1]

Ph₃PbFe(CO)₃NO

M 608.401

Orange-red cryst. (C₆H₆/pentane). Mp 90° dec., 92-3°.Casey, M. *et al*, *J. Chem. Soc. (A)*, 1971, 256 (*synth*, *ir*)Cleland, A.J. *et al*, *J. Chem. Soc. (A)*, 1971, 736 (*synth*, *ir*)**C₂₁H₁₅FeNO₄Sn****Fe-01707****Tricarbonylnitrosyl(triphenylstannyl)iron, 8Cl**

[31276-15-0]

Ph₃SnFe(CO)₃NO

M 519.891

Yellow cryst. (C₆H₆/hexane). Mp 86-8°, 122° dec.Casey, M. *et al*, *J. Chem. Soc. (A)*, 1971, 256 (*synth*, *ir*)Cleland, A.J. *et al*, *J. Chem. Soc. (A)*, 1971, 736 (*synth*, *ir*)

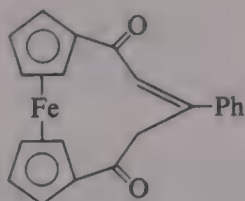
C₂₁H₁₆FeO₂

Fe-01708

3-Phenyl[5]ferrocenophan-2-ene-1,5-dione

1,1'-(1,5-Dioxo-3-phenyl-2-pentene-1,5-diyl)ferrocene, 9Cl

[53556-27-7]



M 356.203

Elecko, P. *et al*, *Chem. Zvesti.*, 1974, **28**, 396 (*synth*)C₂₁H₁₆FeO₃

Fe-01709

Tricarbonyl[(1,2,3,4-η)-1,6-diphenyl-1,3,5-hexatriene]iron

As Tricarbonyl[(2,3,4,5-η)-7-phenyl-2,4,6-heptatrienal]iron, Fe-01388 with

R = R' = Ph

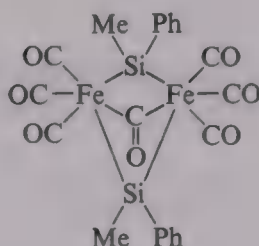
M 372.203

*syn, syn-form*Air-stable transparent rust-coloured rods (C₆H₆/cyclohexane). Mp 167-168.5°.Whitlock, H.W. *et al*, *Inorg. Chem.*, 1965, **4**, 424 (*synth, ir, pmr*)C₂₁H₁₆Fe₂O₇Si₂

Fe-01710

Hexacarbonyl-μ-carbonylbis-μ-(methylphenylsilanediyl)di-iron

[74914-96-8]



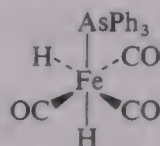
M 548.218

V. air-sensitive yellow-orange cryst. Mp 198-200°.

Carre, F.H. *et al*, *Inorg. Chem.*, 1982, **21**, 3099 (*synth, ir, pmr, ms*)C₂₁H₁₇AsFeO₃

Fe-01711

Tricarbonyldihydro(triphenylarsine)iron



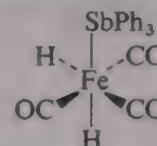
M 448.132

Colourless cryst. (pet. ether). Mp 58° dec.

Berke, H. *et al*, *Chem. Ber.*, 1981, **114**, 3549 (*synth, ir, pmr, nmr, struct*)C₂₁H₁₇FeO₃Sb

Fe-01712

Tricarbonyldihydro(triphenylstibine)iron



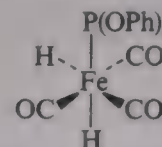
M 494.961

Colourless cryst. (pet. ether). Mp 116-7°.

Berke, H. *et al*, *Chem. Ber.*, 1981, **114**, 3549 (*synth, ir, pmr, nmr*)C₂₁H₁₇FeO₆P

Fe-01713

Tricarbonyldihydro(triphenyl phosphite-P)iron



M 452.182

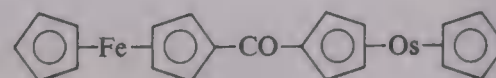
Colourless cryst. (pet. ether at -40°).

Berke, H. *et al*, *Chem. Ber.*, 1981, **114**, 3549 (*synth, ir, pmr, nmr*)C₂₁H₁₈FeOOs

Fe-01714

(Osmocenylcarbonyl)ferrocene

Ferrocenyl osmocenyl ketone. Ferrocenylosmocenyl-methanone. (Ferrocenylcarbonyl)osmocene



M 532.420

Mp 232° dec.

Gubin, S.P. *et al*, *J. Organomet. Chem.*, 1971, **30**, 243 (*synth, polarog*)C₂₁H₁₈FeORu

Fe-01715

Ferrocenylruthenocenylmethanone

π-Cyclopentadienyl[(ferrocenylcarbonyl)-π-cyclopentadienyl]ruthenium, 8Cl. Ferrocenyl ruthenocenyl ketone. Ruthenocenylcarbonylferrocene. Carbonylferrocenylruthenocene



M 443.290

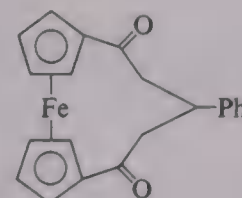
Orange-red needles (propanol). Mp 216°.

Rausch, M.D. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 76 (*synth, ir*)Gubin, S.P. *et al*, *J. Organomet. Chem.*, 1970, **22**, 183 (*synth, pmr*)C₂₁H₁₈FeO₂

Fe-01716

3-Phenyl[5]ferrocenophane-1,5-dione

1,1'-(1,5-Dioxo-3-phenyl-1,5-pentenediyl)ferrocene, 9Cl [32985-99-2]



M 358.219

Golden-yellow feathers (C₆H₆/EtOH). Mp >300°.

Mashburn, T.A. *et al*, *J. Org. Chem.*, 1960, **25**, 1982 (*synth*)

Furdik, M. *et al*, *Chem. Zvesti.*, 1961, **15**, 45 (*synth*)

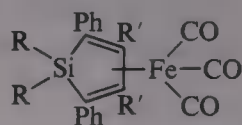
Barr, T.H. *et al*, *Tetrahedron*, 1968, **24**, 3219 (*synth*)

Elecko, P. *et al*, *Chem. Zvesti.*, 1975, **29**, 411 (*synth*)

C₂₁H₁₈FeO₃Si **Fe-01717**

Tricarbonyl[(2,3,4,5- η)-1,1-dimethyl-2,5-diphenylsilacyclopenta-2,4-diene]iron, 10Cl

[49539-48-2]



R = Me, R' = H

M 402.304

Air-stable orange needles (hexane). Mp 115°.

Fink, W., *Helv. Chim. Acta*, 1974, **57**, 167 (*synth*, *pmr*, *ms*)

Nakadaira, Y. *et al*, *J. Organomet. Chem.*, 1979, **165**, 399

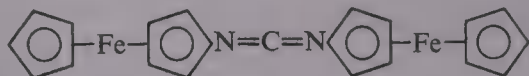
(*synth*, *pmr*, *ms*)

Sakurai, H. *et al*, *J. Organomet. Chem.*, 1980, **201**, C14 (*nmr*)

C₂₁H₁₈Fe₂N₂ **Fe-01718**

N,N'-Diferrocenylcarbodiimide

N,N'-Methanetetraylbis(ferrocenylamine)



M 410.081

Partially resolved into enantiomers of unknown opt. purity.

(+)-*form*

[α]_D²⁵ +4.1° (c, 0.4 in C₆H₆).

(-)-*form*

[α]_D²⁵ -4.8° (c, 0.3 in C₆H₆).

(±)-*form*

Cryst. Mp 140-5° dec.

Schlögl, K. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1966, **5**, 596

(*synth*, *ir*, *resoln*)

C₂₁H₁₈Fe₂O **Fe-01719**

Diferrocenylmethanone

1,1''-Carbonylbisferrocene, 9Cl. Diferrocenyl ketone

[12097-81-3]



M 398.067

Red cryst. (C₆H₆). Mp 206-7°.

Goldberg, S.I., *J. Org. Chem.*, 1960, **25**, 432 (*synth*)

Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 2082, 4112

(*synth*)

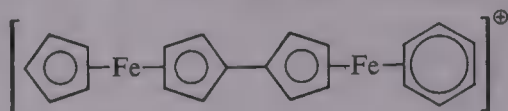
Osipov, V.G. *et al*, *Zh. Obshch. Khim.*, 1974, **44**, 599 (*ir*)

Sandstrom, J. *et al*, *J. Organomet. Chem.*, 1976, **108**, 371 (*pmr*,

cmr)

C₂₁H₁₉Fe₂[⊕] **Fe-01720**

(η^6 -Benzene)[(1,2,3,4,5- η)-1-ferrocenyl-2,4-cyclopentadien-1-yl]iron(1+), 10Cl



M 383.075 (ion)

Hexafluorophosphate: [68499-72-9].

C₂₁H₁₉F₆Fe₂P M 528.039

Red powder.

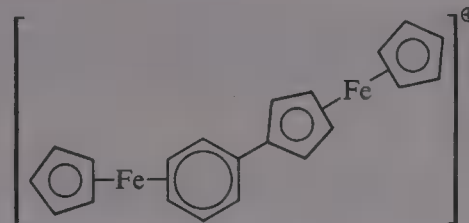
Lee, C.C. *et al*, *Synth. React. Inorg. Met.-Org. Chem.*, 1978, **8**, 361 (*synth*, *pmr*, *cmr*)

C₂₁H₁₉Fe₂[⊕] **Fe-01721**

Bis(η^5 -2,4-cyclopentadien-1-yl)[μ -(η^5 : η^6 -1-phenyl-2,4-cyclopentadien-1-yl)]diiron(1+), 9Cl

[(1,2,3,4,5,6- η)-1-Ferrocenylbenzene](η^5 -2,4-cyclopentadien-1-yl)iron(1+)

[57158-80-2]



M 383.075 (ion)

Hexafluorophosphate:

C₂₁H₁₉F₆Fe₂P M 528.039

Pink solid (CH₂Cl₂/Et₂O). Mp 150-200° dec.

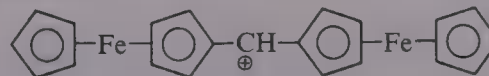
Astruc, D. *et al*, *J. Organomet. Chem.*, 1975, **96**, 283 (*synth*, *pmr*)

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1978, 1420.

C₂₁H₁₉Fe₂[⊕] **Fe-01722**

Diferrocenylmethylum(1+), 9Cl

[39358-40-2]



M 383.075 (ion)

Tetrafluoroborate: [39336-30-6].

C₂₁H₁₉BF₄Fe₂ M 469.879

Cryst. (MeOH).

Perchlorate: [12194-25-1].

C₂₁H₁₉ClFe₂O₄ M 482.526

Black needles with bronze glaze (CHCl₃/hexane).

Diamagnetic.

▷Explodes on heating

Hexafluorophosphate: [71562-91-9].

C₂₁H₁₉F₆Fe₂P M 528.039

Dark-red cryst.

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1967, 457 (*synth*)

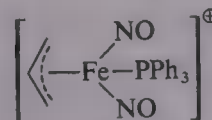
Lupan, S. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1972, **11**, 1025 (*pmr*, *struct*)

Tirouflet, J. *et al*, *J. Organomet. Chem.*, 1973, **50**, 241 (*polarog*, *uv*)

Ortaggi, G. *et al*, *Gazz. Chim. Ital.*, 1979, **109**, 13 (*synth*, *ir*, *uv*)

C₂₁H₂₀FeN₂O₂P[⊕] **Fe-01723**

Dinitrosyl(η^3 -2-propenyl)(triphenylphosphine)iron(1+), 10Cl
(η^3 -Allyl)dinitrosyl(triphenylphosphine)iron(1+)



M 419.222 (ion)

Fluxional. P(OMe)₃ analogue also characterised.

Hexafluorophosphate: [71986-89-5].

C₂₁H₂₀F₆FeN₂O₂P₂ M 564.186

Orange cryst.

Baker, P.K. *et al*, *J. Organomet. Chem.*, 1979, **179**, C33 (*synth*, *pmr*, *ir*)

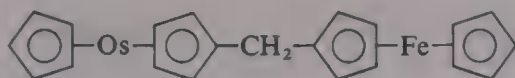
C₂₁H₂₀FeOs

Fe-01724

Ferrocenylmethylosmocene, 9Cl

π -Cyclopentadienyl[(ferrocenylmethyl)- π -cyclopentadienyl]osmium. Osmocenylmethylferrocene

[11105-98-9]



M 518.436

Mp 152-3°.

Gubin, S.P. *et al*, *J. Organomet. Chem.*, 1970, **22**, 183; 1971, **30**, 243 (*polarog*)

Smirnova, S.A. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1971, **200**, 605 (*synth*, *polarog*)

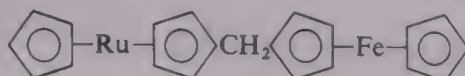
C₂₁H₂₀FeRu

Fe-01725

(Ferrocenylmethyl)ruthenocene

π -Cyclopentadienyl[(ferrocenylmethyl)- π -cyclopentadienyl]ruthenium, 8Cl. Ferrocenyl(ruthenocenyl)methane. (Ruthenocenylmethyl)ferrocene

[11105-99-0]



M 429.306

Yellow cryst. (hexane). Mp 139-40°.

Gubin, S.P. *et al*, *J. Organomet. Chem.*, 1970, **22**, 183 (*synth*, *pmr*, *polarog*, *ir*)

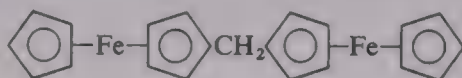
C₂₁H₂₀Fe₂

Fe-01726

Diferrocenylmethane

1,1''-Methylenebisferrocene, 9Cl

[1317-11-9]



M 384.083

Orange cryst. (pet. ether). Mp 144-6°.

Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 4112 (*synth*)

Schlögl, K. *et al*, *Monatsh. Chem.*, 1961, **92**, 219 (*synth*)

Pauson, P.L. *et al*, *J. Chem. Soc.*, 1962, 3880 (*synth*)

Nesmeyanov, A.N. *et al*, *Zh. Strukt. Khim.*, 1973, **14**, 49 (*cmr*)

C₂₁H₂₀Fe₂N₂O

Fe-01727

N,N'-Diferrocenylurea



M 428.096

Orange cryst. (C₆H₆/CHCl₃ or MeOH). Mp 250° dec.

Schlögl, K. *et al*, *Naturwissenschaften*, 1958, **45**, 337 (*synth*)

Acton, E.M. *et al*, *J. Org. Chem.*, 1959, **24**, 1487 (*synth*, *ir*)

Schlögl, K. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1966, **5**, 596 (*synth*, *ir*)

Abramovitch, R.A. *et al*, *Tetrahedron Lett.*, 1972, 1065 (*synth*)

C₂₁H₂₀Fe₂O

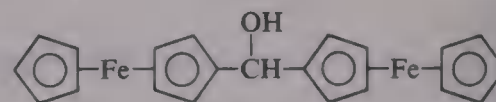
Fe-01728

Diferrocenylmethanol

1,1''-(Hydroxymethylene)bisferrocene, 9Cl.

Diferrocenylcarbinol

[37343-48-9]



M 400.082

Yellow needles (cyclohexane). Mp 176-7°.

Pauson, P.L. *et al*, *J. Chem. Soc.*, 1962, 3880 (*synth*)

Nekrasov, Yu.S. *et al*, *Org. Mass. Spectrom.*, 1979, **14**, 22 (*ms*)

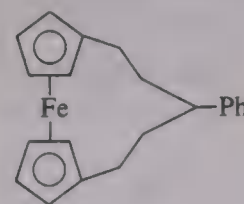
C₂₁H₂₂Fe

Fe-01729

3-Phenyl[5]ferrocenophane

1,1'-(3-Phenyl-1,5-pentenediyl)ferrocene, 9Cl

[53881-04-2]



M 330.252

Yellow cryst. (pet. ether). Mp 112-3°.

Barr, T.H. *et al*, *Tetrahedron*, 1968, **24**, 3219 (*synth*, *pmr*)

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1974, **218**, 1107 (*cmr*, *pmr*)

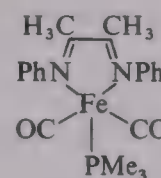
C₂₁H₂₅FeN₂O₂P

Fe-01730

Dicarbonyl[N,N'-(1,2-dimethyl-1,2-ethanediylidene)bis(benzeneamine)-N,N'-(trimethylphosphine)iron

Dicarbonyl(1,4-diphenyl-2,3-dimethyl-1,4-diaza-1,3-butadiene)(trimethylphosphine)iron

[81847-65-6]



M 424.261

Shi, Q. *et al*, *Organometallics*, 1982, **1**, 1033 (*synth*, *ir*, *uv*)

C₂₁H₂₈FeO

Fe-01731

[11]Ferrocenophan-6-one

1,1'-(6-Oxo-1,11-undecanediyl)ferrocene, 9Cl

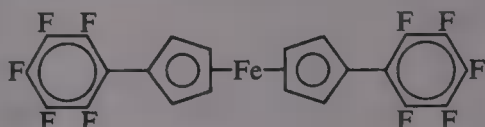
[56732-46-8]



M 352.299

Yellow-orange cryst. (heptane/Me₂CO). Mp 81-3°.

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **92**, 341 (*synth*, *ir*, *pmr*, *cmr*, *ms*)

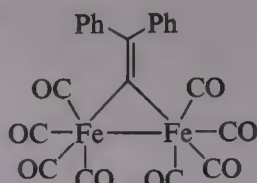
C₂₂H₈F₁₀Fe**Fe-01732****1,1'-Bis(pentafluorophenyl)ferrocene, 8Cl***Bis(pentafluorophenyl-π-cyclopentadienyl)iron*

M 518.136

Dark-orange cryst. (pet. ether). Mp 183-6°.

Bruce, M.I. *et al*, *J. Chem. Soc. (C)*, 1969, **16**, 2107 (*synth*, *pmr*, *ir*)Bruce, M.I. *et al*, *Org. Mass Spectrom.*, 1969, **2**, 997 (*ms*)**C₂₂H₁₀Fe₂O₈****Fe-01733****Octacarbonyl(μ-diphenylvinylidene)diiron, 8Cl***Octacarbonyl(μ-diphenylethenylidene)diiron*

[15525-76-5]

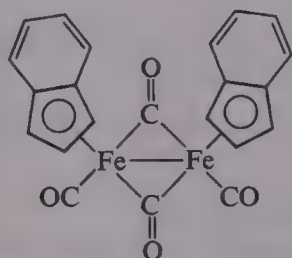


M 514.010

Air-stable orange cryst. Mp 129-30°.

Mills, O.S. *et al*, *J. Chem. Soc. (A)*, 1968, 1282 (*struct*, *synth*, *ms*)**C₂₂H₁₄Fe₂O₄****Fe-01734****Di-μ-carbonyldicarbonylbis[(1,2,3,3a,7a,η)-1H-inden-1-yl]diiron, 9Cl***Di-μ-carbonyldicarbonyldi-π-indenyl diiron, 8Cl. Tetracarbonyldi-π-indenyl diiron, 8Cl. Diindenyl diiron tetracarbonyl*

[36632-68-5]

*cis-form*

M 454.044

Obt. as mixt. of isomers. Brown-purple cryst. (CHCl₃/pet. ether). Mp 197-8° dec.Hallam, B.F. *et al*, *J. Chem. Soc.*, 1958, 646 (*synth*, *ir*)McArdle, P.A. *et al*, *J. Chem. Soc. (A)*, 1969, 1498 (*ir*)Gansow, O.A. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 5817 (*cmr*)**C₂₂H₁₅AsFeO₄****Fe-01735****Tetracarbonyl(triphenylarsine)iron, 9Cl, 8Cl**

[14375-84-9]



M 474.127

Yellow monoclinic needles, v. stable to light and air. Sol. most org. solvs. Mp 178° (170-5°).

Inorg. Synth., 1966, **8**, 185 (*synth*)Singh, S. *et al*, *Inorg. Chem.*, 1968, **7**, 1236 (*ir*)Sorriso, S. *et al*, *J. Organomet. Chem.*, 1973, **47**, 139.Conder, H.L. *et al*, *J. Organomet. Chem.*, 1974, **67**, 93 (*synth*)Wuyts, L.F. *et al*, *J. Organomet. Chem.*, 1977, **129**, 163 (*nmr*)Flamini, A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1978, 695 (*pe*)**C₂₂H₁₅FeO₄P****Fe-01736****Tetracarbonyl(triphenylphosphine)iron, 9Cl, 8Cl***Triphenylphosphinetetracarbonyliron*

[35679-07-3]



M 430.179

Polymerisation catalyst. Pale-yellow cryst. (heptane or dioxan/MeOH). Mp 201-3° dec. Sublimes at 180° *in vacuo*.*Inorg. Synth.*, 1966, **8**, 186 (*synth*, *ir*)Darensbourg, D.J., *Inorg. Chim. Acta*, 1970, **4**, 597 (*ir*)Greatrex, R. *et al*, *J. Organomet. Chem.*, 1976, **114**, 199 (*mössbauer*)Wuyts, L.F. *et al*, *J. Organomet. Chem.*, 1977, **129**, 163 (*cmr*)Butler, S.B. *et al*, *J. Organomet. Chem.*, 1979, **169**, 191 (*synth*)Riley, P.E. *et al*, *Inorg. Chem.*, 1980, **19**, 159 (*cryst struct*)**C₂₂H₁₅FeO₄Sb****Fe-01737****Tetracarbonyl(triphenylstibine)iron, 9Cl, 8Cl**

[20516-78-3]



M 520.955

Air-, light- and water-stable yellow-brown prisms. Sol. most org. solvs., insol. H₂O. Mp 135°.Clifford, A.F. *et al*, *Inorg. Chem.*, 1963, **2**, 151 (*synth*, *ir*)*Inorg. Synth.*, 1966, **8**, 187 (*synth*, *ir*)Singh, S. *et al*, *Inorg. Chem.*, 1968, **7**, 1236 (*ir*)Bryan, R.F. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 2337 (*cryst struct*)Conder, H.L. *et al*, *J. Organomet. Chem.*, 1974, **67**, 93 (*synth*)Cane, D.J. *et al*, *J. Organomet. Chem.*, 1977, **129**, 181 (*mössbauer*)Wuyts, L.F. *et al*, *J. Organomet. Chem.*, 1977, **129**, 163 (*nmr*)**C₂₂H₁₅FeO₇P****Fe-01738****Tetracarbonyl(triphenyl phosphite-P)iron, 9Cl***Tetracarbonyl(phosphorous acid)iron triphenyl ester, 8Cl*

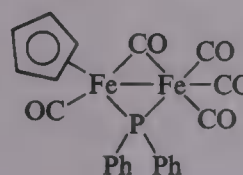
[18475-06-4]



M 478.177

Pale-yellow needles. Mp 73°, (68-9°, 71°). Bp_{0.01} 100° subl.Cotton, J.D. *et al*, *Aust. J. Chem.*, 1969, **22**, 2673 (*synth*, *ir*, *raman*)Darensbourg, D.J. *et al*, *Inorg. Chem.*, 1974, **13**, 2135 (*ir*)Butts, S.B. *et al*, *J. Organomet. Chem.*, 1979, **169**, 191 (*synth*)**C₂₂H₁₅Fe₂O₅P****Fe-01739****μ-Carbonyltetracarbonyl(η⁵-2,4-cyclopentadien-1-yl)[μ-(diphenylphosphino)diiron, 9Cl**

[32660-25-6]



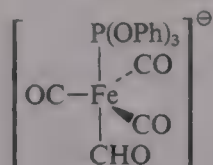
M 502.025

Purple cryst. Mp 120-5° dec.

Yasufuku, K. *et al*, *J. Organomet. Chem.*, 1971, **28**, 415 (*synth*, *pmr*, *ir*, *ms*)Haines, R.J. *et al*, *J. Organomet. Chem.*, 1972, **36**, 163 (*synth*, *ir*, *pmr*)

Greatrex, R. *et al*, *J. Organomet. Chem.*, 1976, **114**, 199 (mössbauer)

C₂₂H₁₆FeO₇P[⊖] **Fe-01740**
 Tricarbonylformyl(triphenyl phosphite-*P*)ferrate(1[−]), 9Cl



M 479.185 (ion)

Tetraethylammonium salt: [60606-70-4].

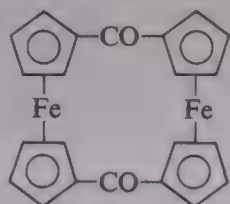
C₃₀H₃₆FeNO₇P M 609.438

Light-tan powder. Mp 40-55° dec. Air-sensitive.

Casey, C.P. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 5395; 1978, **100**, 2544 (synth, pmr, ir)

Casey, C.P. *et al*, *Adv. Chem. Ser.*, 1979, 173.

C₂₂H₁₆Fe₂O₂ **Fe-01741**
 [1.1]Ferrocenophane-1,12-dione, 9Cl
 [1²]Ferrocenophanedione
 [12283-50-0]



M 424.061

Fine maroon needles (CHCl₃). Mp >350°.

Watts, W.E., *J. Organomet. Chem.*, 1967, **10**, 191 (synth, pmr)

Barr, T.H. *et al*, *Tetrahedron*, 1969, **25**, 6001 (synth)

Katz, T.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 2934 (synth, pmr, ir, ms)

C₂₂H₁₇FeN₂O₃P **Fe-01742**
 Dicarbonyl(cyanomethyl)nitrosyl(triphenylphosphine)iron, 8Cl
 [17769-87-8]

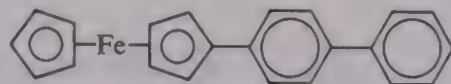


M 444.209

Red cryst. (CH₂Cl₂/pentane). Mp 130-40° dec.

Chaudhari, F.M. *et al*, *J. Chem. Soc. (C)*, 1967, 2255 (synth, ir, pmr)

C₂₂H₁₈Fe **Fe-01743**
 4-Biphenylferrocene
 [(4-Biphenyl)cyclopentadienyl]cyclopentadienyliron.
 4-Ferrocenylbiphenyl



M 338.231

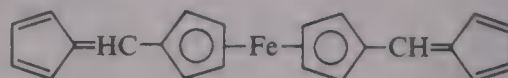
Orange-yellow plates. Mp 164-5°.

Rausch, M.D., *Inorg. Chem.*, 1962, **1**, 414 (synth)

Rosenblum, M. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 2726 (synth)

Allen, F.H. *et al*, *J. Chem. Soc. (A)*, 1970, 907 (struct)

C₂₂H₁₈Fe **Fe-01744**
 1,1'-Bis(2,4-cyclopentadien-1-ylidenemethyl)ferrocene
 1,1'-Bis(6-fulvenyl)ferrocene
 [78100-24-0]

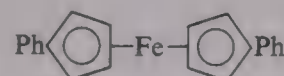


M 338.231

Black cryst. (hexane). Mp 112°. Polymerises readily.

Cassens, A. *et al*, *J. Organomet. Chem.*, 1981, **205**, C17 (synth, uv, pmr)

C₂₂H₁₈Fe **Fe-01745**
 1,1'-Diphenylferrocene, 9Cl
 [12098-13-4]



M 338.231

Orange flakes (pet. ether). Mp 156-7°.

Pauson, P.L., *J. Am. Chem. Soc.*, 1954, **76**, 2187 (synth)

Broadhead, G.D. *et al*, *J. Chem. Soc.*, 1955, 367 (synth)

Weinmayr, V., *J. Am. Chem. Soc.*, 1955, **77**, 3012 (synth)

Rosenblum, M. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 2726 (synth)

Rosenblum, M. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 1450 (ir, uv)

Kamezawa, N., *J. Magn. Reson.*, 1973, **11**, 88 (pmr)

C₂₂H₁₈Fe **Fe-01746**
 1,2-Diphenylferrocene, 9Cl

[42898-05-5]

M 338.231

Orange rods (pet. ether). Mp 109-10°.

Rosenblum, M. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 2726 (synth)

Kamezawa, N., *J. Magn. Reson.*, 1973, **11**, 88 (pmr)

C₂₂H₁₈Fe **Fe-01747**
 1,3-Diphenylferrocene

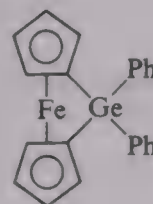
π-Cyclopentadienyl(1,3-diphenyl-π-cyclopentadienyl)iron

M 338.231

Orange needles (ligroin). Mp 107°.

Hallam, B.F. *et al*, *J. Chem. Soc.*, 1956, 3030 (synth)

C₂₂H₁₈FeGe **Fe-01748**
 1,1'-(Diphenylgermylene)ferrocene, 10Cl
 (1,1'-Ferrocenediyl)diphenylgermane
 [75349-16-5]



M 410.821

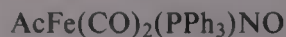
Orange-red cryst. (C₆H₆/hexane). Mp >250° dec.

Osborne, A.G. *et al*, *J. Organomet. Chem.*, 1980, **193**, 345 (synth, pmr, cmr, uv)

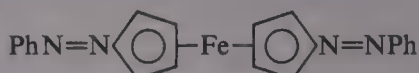
Stoeckli-Evans, H. *et al*, *J. Organomet. Chem.*, 1980, **194**, 91 (struct)

C₂₂H₁₈FeNO₄P**Fe-01749****Acetyldicarbonylnitrosyl(triphenylphosphine)iron, 8Cl**

[17769-83-4]



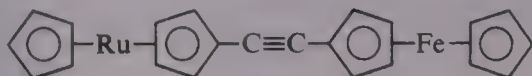
M 447.209

Yellow cryst. (Et₂O/pentane). Mp 108°.Chaudhari, F.M. *et al*, *J. Chem. Soc. (C)*, 1967, 2255 (*synth*, *ir*, *pmr*)Iijima, S. *et al*, *Chem. Lett.*, 1979, 1349 (*synth*)**C₂₂H₁₈FeN₄****Fe-01750****1,1'-Bis(phenylazo)ferrocene***Bis(phenylazo-π-cyclopentadienyl)iron*

M 394.258

Violet-black needles (Me₂CO). Mp 183-5°.Knox, G.R. *et al*, *J. Chem. Soc.*, 1961, 4615 (*synth*, *props*)**C₂₂H₁₈FeRu****Fe-01751****(Ruthenocenylethynyl)ferrocene***π-Cyclopentadienyl[(ferrocenylethynyl)-π-cyclopentadienyl]ruthenium, 8Cl. (Ferrocenylethynyl)ruthenocene.**Ferrocenylruthenocenylacetylene*

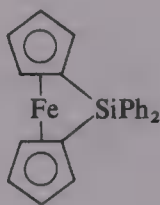
[12337-26-7]



M 439.301

Orange cryst. by subl. Mp 259.5-261°. Bp₁ 180° subl.Rausch, M.D. *et al*, *J. Org. Chem.*, 1969, 34, 1974 (*synth*, *ms*, *pmr*)**C₂₂H₁₈FeSi****Fe-01752****1,1'-(Diphenylsilylene)ferrocene, 9Cl***1,1'-Diphenyl-1-sila[1]ferrocenophane. (1,1'-Ferrocene-diyl)diphenylsilane*

[58058-00-7]



M 366.317

Air-stable red rods.

Osborne, A.G. *et al*, *J. Organomet. Chem.*, 1975, 101, C27 (*synth*, *pmr*, *uv*)Stoeckli-Evans, H. *et al*, *Helv. Chim. Acta*, 1976, 59, 2402 (*struct*)**C₂₂H₁₈Fe₂****Fe-01753****Bis(η⁵-2,4-cyclopentadien-1-yl)[μ-[(1,2,3,3a,8b-η:5a,6,7,8,8a-η)-as-indacene]]diiron, 10Cl**

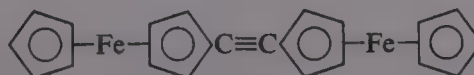
[72495-62-6]



M 394.078

C₂₂H₁₈Fe₂**Fe-01754****Diferrocenylacetylene***1,1''-(1,2-Ethynediyl)bisferrocene, 9Cl.**Diferrocenylethyne*

[12098-14-5]



M 394.078

Bronze cryst. Mp 244-6°. Bp_{0.02} 180° subl.Pauson, P.L. *et al*, *J. Chem. Soc.*, 1963, 2990 (*synth*)Schlögl, K. *et al*, *J. Organomet. Chem.*, 1966, 6, 399 (*uv*)**C₂₂H₁₈Fe₂O₂****Fe-01755****1,2-Diferrocenyl-1,2-ethanedione***Diferrocenylglyoxal, 8Cl. 1,1''-(1,2-Ethanedione-1,2-diyl)bisferrocene. Diferrocenoyl. Ferroçil*

[12113-85-8]

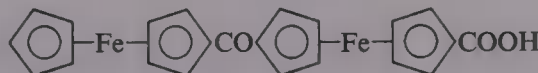


M 426.077

Purple cryst. Mp 193.5-195.5°.

Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1962, 82, 4112 (*synth*)Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1966, 2209 (*synth*)Goldberg, S.I. *et al*, *J. Org. Chem.*, 1971, 36, 1499 (*synth*, *pmr*)**C₂₂H₁₈Fe₂O₃****Fe-01756****1'-Ferrocenoyl-1-ferrocenecarboxylic acid***1-Carboxy-1'-(ferrocenylcarbonyl)ferrocene, 9Cl*

[33031-99-1]

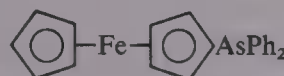


M 442.076

Dark-brown solid. Mp >300°.

Barr, T.H. *et al*, *Tetrahedron*, 1969, 25, 6001 (*synth*)Touchard, D. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1972, 275, 841 (*synth*)**C₂₂H₁₉AsFe****Fe-01757****(Diphenylarsino)ferrocene, 9Cl***Ferrocenyldiphenylarsine*

[12156-01-3]



M 414.161

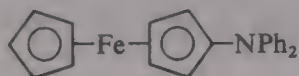
Golden prisms (CH₂Cl₂/pentane). Mp 129-30°.Seyferth, D. *et al*, *Organometallics*, 1982, 1, 1275 (*synth*, *pmr*, *ms*)

C₂₂H₁₉FeN

Fe-01758

N,N-Diphenylaminoferrocene

π -Cyclopentadienyl-(*N,N*-diphenylamino- π -cyclopentadienyl)iron. *N,N*-Diphenylferrocenylamine. Ferrocenyldiphenylamine



M 353.246

Orange cryst. (EtOH or heptane). Mp 82°. Extremely weak base which fails to yield salts with strong acids.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1964, **157**, 922 (*synth*)

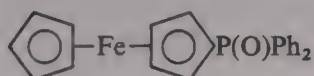
Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1966, 357.

C₂₂H₁₉FeOP

Fe-01759

(Diphenylphosphinyl)ferrocene, 9Cl

[54060-24-1]



M 386.212

Orange needles (heptane). Mp 163-5°.

Sollott, G.P. *et al*, *J. Org. Chem.*, 1963, **28**, 1090 (*synth*, *ir*)

Eberhard, L. *et al*, *J. Organomet. Chem.*, 1974, **80**, 109 (*pmr*)

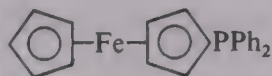
C₂₂H₁₉FeP

Fe-01760

Ferrocenyldiphenylphosphine

(Diphenylphosphino)ferrocene, 10Cl, 9Cl

[12098-17-8]



M 370.213

Orange cryst. (EtOH). Mp 122-4°.

Sollott, G.P. *et al*, *J. Org. Chem.*, 1963, **28**, 1090 (*synth*, *nmr*)

Kotz, J.C. *et al*, *J. Organomet. Chem.*, 1973, **52**, 387 (*pmr*, *ir*)

Smalley, A.W., *Org. Prep. Proced. Int.*, 1978, **10**, 195 (*synth*)

C₂₂H₂₀B₂Fe

Fe-01761

Bis[(1,2,3,4,5,6- η)-1-phenylboratabenzene]iron, 9Cl*Bis*(1-phenylborinato)iron

[54853-79-1]

As Bis[(1,2,3,4,5,6- η)-1-methylboratabenzene]iron, Fe-00965 with

R = Ph

M 361.867

Red-orange air-stable cryst. (pentane). Mp 160-160.5° (156-157.5°).

Herberich, G. *et al*, *Chem. Ber.*, 1974, **107**, 3780 (*synth*, *pmr*, *ir*, *ms*)

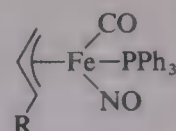
Ashe, A.J. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 6865 (*synth*, *nmr*, *mössbauer*, *uv*, *ms*)

C₂₂H₂₀FeNO₂P

Fe-01762

Carbonylnitrosyl(η^3 -2-propenyl)(triphenylphosphine)iron, 9Cl π -Allylcarbonylnitrosyl(triphenylphosphine)iron

[32679-62-2]



R = H

M 417.226

Shiny dark-red cryst. (Et₂O/pentane). Mp 173-4°.

Chaudhari, F.M. *et al*, *J. Chem. Soc. (C)*, 1967, 2255 (*synth*)

Cardaci, G. *et al*, *J. Organomet. Chem.*, 1970, **25**, 483 (*synth*, *ir*)

Cardaci, G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 1808 (*pmr*)

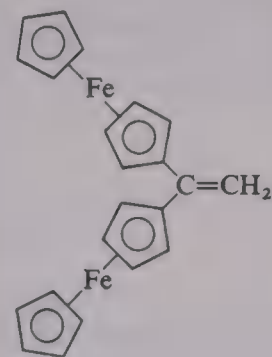
C₂₂H₂₀Fe₂

Fe-01763

1,1-Diferrocenylethylene

1,1''-Ethenylidenebisferrocene, 9Cl

[52326-58-6]



M 396.094

Orange cryst. (pet. ether). Mp 161.5-162° (162-4°).

Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 2082 (*uv*, *synth*)

Osipov, V.G. *et al*, *Zh. Obshch. Khim.*, 1974, **44**, 599 (*ir*)

Reshetova, M.D. *et al*, *Zh. Obshch. Khim.*, 1974, **44**, 1841 (*synth*)

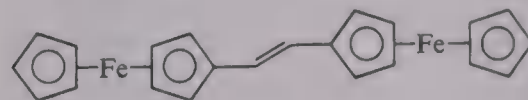
C₂₂H₂₀Fe₂

Fe-01764

1,2-Diferrocenylethylene

1,1''-(1,2-Ethenediyl)bisferrocene, 9Cl. 1,2-Diferrocenylethene

[61091-08-5]



(E)-form

M 396.094

(E)-form [12126-54-4]

Orange powder (C₆H₆). Mp 265-7°.

(Z)-form [52690-58-1]

Orange powder by subl. Mp 195-8°. Bp_{0.5} 160° subl.

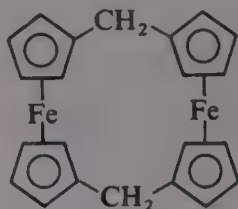
Pauson, P.L. *et al*, *J. Chem. Soc.*, 1963, 2990 (*synth*, *uv*)

Eberhardt, R. *et al*, *Monatsh. Chem.*, 1973, **104**, 1409 (*hplc*)

Boev, V.I. *et al*, *Zh. Obshch. Khim.*, 1976, **46**, 1838 (*synth*)

C₂₂H₂₀Fe₂**[1.1]Ferrocenophane, 9Cl**[1²]Ferrocenophane

[1294-39-9]



M 396.094

Yellow cryst. (Me₂CO or ligroin). Mp 245-8°, 254-6°.Watts, W.E., *J. Organomet. Chem.*, 1967, **10**, 191 (synth, pmr, ms)Barr, T.H. *et al*, *Tetrahedron*, 1969, **25**, 6001 (synth, pmr)Katz, T.J. *et al*, *J. Am. Chem. Soc.*, 1969, **91**, 2804; 1973, **95**, 2934 (synth, pmr, ir, uv)Müller-Westerhoff, U.T. *et al*, *J. Organomet. Chem.*, 1981, **205**, C23 (synth, pmr)

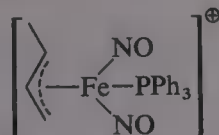
Fe-01765

Red-brown needles (CH₂Cl₂/Et₂O). Mp 225° dec.Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1975, **88**, 215 (synth, struct, ir)C₂₂H₂₂FeN₂O₂P⁺

Fe-01769

[(1,2,3-η)-2-Butenyl]dinitrosyl(triphenylphosphine)iron(1+), 10Cl

Dinitrosyl(1-methylallyl)(triphenylphosphine)iron(1+)



M 433.249 (ion)

Fluxional. ir ν_{NO} 1833, 1785 cm⁻¹.

Hexafluorophosphate: [71986-91-9].

C₂₂H₂₂F₆FeN₂O₂P₂ M 578.213

Unstable orange cryst.

Baker, P.K. *et al*, *J. Organomet. Chem.*, 1979, **179**, C33 (synth, ir)C₂₂H₂₀Fe₂O

Fe-01766

1,2-Diferrocenylethanone

Ferrocenyl ferrocenylmethyl ketone, 8Cl. (1,2-Ethanonediyl)bisferrocene. Desoxyferrocenoin

[12504-83-5]



M 412.093

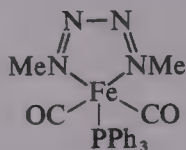
Red powder. Mp 150-63°. Bp_{0.02} 160° subl.Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1959, **81**, 3162 (synth)Pauson, P.L. *et al*, *J. Chem. Soc.*, 1963, 2990 (synth)Goldberg, S.I. *et al*, *J. Org. Chem.*, 1971, **36**, 1499 (synth, ir)C₂₂H₂₁FeN₄O₂P

Fe-01767

Dicarbonyl(1,4-dimethyl-1,3-tetrazadiene-N¹,N⁴)(triphenylphosphine)iron, 10Cl

Dicarbonyl(1,4-dimethyltetraazabutadiene)(triphenylphosphine)iron

[76299-43-9]

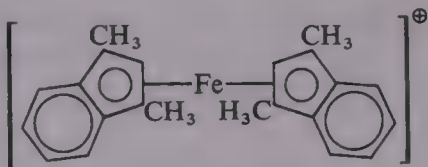


M 460.254

Cryst. (hexane).

Chang, C.Y. *et al*, *Inorg. Chem.*, 1981, **20**, 3167 (synth, ir, uv)Johnson, C.E. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 6352 (synth, ir, uv, nmr)C₂₂H₂₂Fe⁺

Fe-01768

Bis[(1,2,3,3a,7a-η)-1,3-Dimethyl-1H-inden-1-yl]iron(1+), 9Cl

M 342.263 (ion)

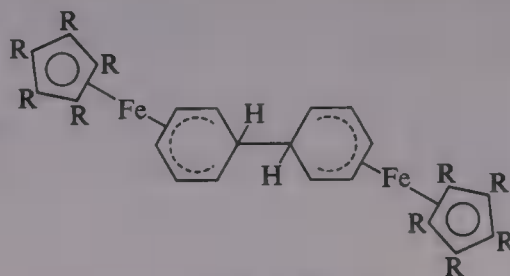
Hexafluorophosphate: [56285-03-1].

C₂₂H₂₂F₆FeP M 487.227C₂₂H₂₂Fe₂

Fe-01770

[μ-[(2,3,4,5,6-η:2',3',4',5',6'-η)-[bi-3,5-cyclohexadien-1-yl]-2,2'-diyl]]bis(η⁵-2,4-cyclopentadien-1-yl)diiron, 9Cl

[54967-76-9]



R = H

M 398.110

Red cryst. (C₆H₆). Mp 142-3° dec.Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1974, 2159 (synth, ir, pmr)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1977, **136**, 363 (synth, pmr, ir, ms)C₂₂H₂₂Fe₂

Fe-01771

1,2-Diferrocenylethane

1,1''-(1,2-Ethanediy)bisferrocene, 9Cl

[12156-05-7]



M 398.110

Pale-yellow needles (pet. ether). Mp 196-197.5° (190-2°).

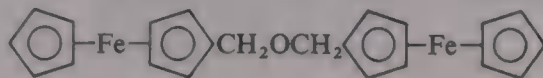
Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1959, **81**, 3162 (synth)Pauson, P.L. *et al*, *J. Chem. Soc.*, 1963, 2990 (synth)Schlögl, K. *et al*, *J. Organomet. Chem.*, 1966, **6**, 399 (uv)Nesmeyanov, A.N. *et al*, *Zh. Strukt. Khim.*, 1973, **14**, 49 (cmr)Doyle, J.R. *et al*, *Inorg. Chem.*, 1974, **13**, 101 (cryst struct)

C₂₂H₂₂Fe₂O

Fe-01772

1,1'-Oxybis[methylene]bisferrocene, 10Cl

Di(ferrocenylmethyl) ether. [Oxybis(methylenecyclopentadienylene)]bis[cyclopentadienyliron]. Oxybis[ferrocenylmethane]. Bis(ferrocenylmethyl) ether
[69661-83-2]



M 414.109

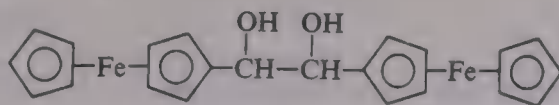
Yellow cryst. (pet. ether). Mp 128-129.5°.

Graham, P.J. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 3416 (*synth*)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1958, **121**, 117 (*synth*)Schlögl, K. *et al*, *Monatsh. Chem.*, 1961, **92**, 219 (*synth*)C₂₂H₂₂Fe₂O₂

Fe-01773

1,2-Diferrocenyl-1,2-ethanediol, 8Cl

1,1'-(1,2-Ethanediol-1,2-diyl)bisferrocene. 1,2-Diferrocenylethylene glycol
[12113-98-3]



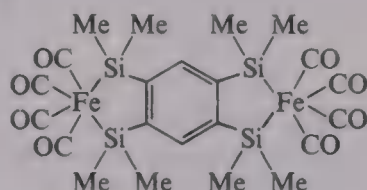
M 430.109

Air-sensitive light-yellow cryst. (C₆H₆). Mp 147-8° dec.Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1966, 2209 (*synth, ir*)C₂₂H₂₆Fe₂O₈Si₄

Fe-01774

[μ-[1,2,4,5-Benzenetetrayltetrakis(dimethylsilylene)]]octa-carbonyldiiron, 9Cl

[56977-63-0]



M 642.479

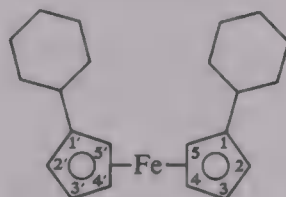
Colorless cryst. (hexane). Mp 298°.

Fink, W., *Helv. Chim. Acta*, 1976, **59**, 606 (*synth, ms, ir, pmr*)C₂₂H₃₀Fe

Fe-01775

1,1'-Dicyclohexylferrocene

Bis(cyclohexyl-π-cyclopentadienyl)iron
[71597-16-5]



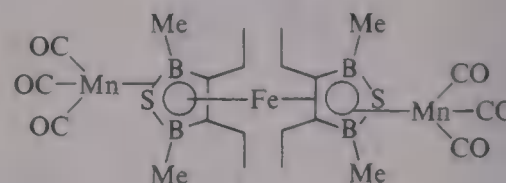
M 350.326

Orange-brown rods (ligroin). Mp 42.5°. Bp_{0.08} 184°.Knox, G.R. *et al*, *J. Chem. Soc.*, 1961, 4610 (*synth*)Sališová, M. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1979, **18**, 792 (*synth*)C₂₂H₃₂B₄FeMn₂O₆S₂

Fe-01776

Hexacarbonylbis[μ-[(1,2,3,4,5-η:1,2,3,4,5-η)-3,4-diethyl-2,5-dihydro-2,5-dimethyl-1,2,5-thiadiborole]](iron)-dimanganese, 10Cl

[66921-70-8]



M 665.574

Orange-red cryst. (CS₂). Bp_{0.1} 140-60° subl. Darkens >155°, dec. at 210°.Siebert, W. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1978, **17**, 527 (*synth, ir, ms, struct*)C₂₂H₃₃Fe

Fe-01777

[(1,2,3,4,5,6-η)-Hexamethylbenzene][(1,2,3,4,5-η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, 10Cl

[71713-53-6]

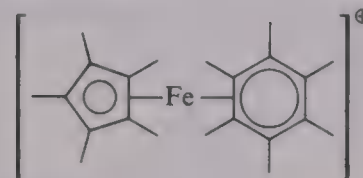
As (η⁶-Benzene)(η⁵-2,4-cyclopentadien-1-yl)iron, Fe-00733 withR = R' = CH₃

M 353.350

Paramagnetic 19-electron complex. Ivory-green cryst. (pentane). Bp₅ 103° subl. μ_{eff} = 1.85 BM.Astruc, D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 5445 (*synth, struct, ms, pmr, cmr, mössbauer*)Mariot, J.P. *et al*, *CA*, 1980, **92**, 138172 (*mössbauer*)Hamon, J.-R. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 758 (*synth, ir, uv, esr, mössbauer, ms*)C₂₂H₃₃Fe⁺

Fe-01778

[(1,2,3,4,5,6-η)-Hexamethylbenzene][(1,2,3,4,5-η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron(1+), 10Cl



M 353.350 (ion)

Hexafluorophosphate: [71713-57-0].

C₂₂H₃₃F₆FeP M 498.314

Yellow needles (EtOH). Mp 323° dec.

Hamon, J.R. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 758 (*synth, ir, pmr, cmr*)C₂₂H₃₉FeN₃Ti

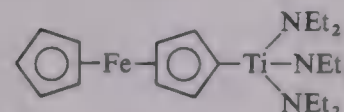
Fe-01779

Tris(diethylamino)ferrocenyltitanium

Tris(N-ethylethanaminato)ferrocenyltitanium, 9Cl.

[Tris(diethylamino)titanium]ferrocene

[42993-54-4]



M 449.297

Dark-red cryst. (Et₂O/pet. ether). Mp 31.5-32.5°.Bürger, H. *et al*, *J. Organomet. Chem.*, 1973, **56**, 269 (*synth, pmr, cmr, ir*)

C₂₂H₄₀FeP₂[⊕]**Fe-01780****Bis[(2,3,4,5-η)-1-tert-butyl-1,3,4-trimethyl-1H-phospholium]iron(1+)***Bis*[(2,3,4,5-η)-1-(1,1-dimethylethyl)-1,3,4-trimethyl-1H-phospholium]iron(1+), 10ClAs *Bis*[(2,3,4,5-η)-1,1,3,4-tetramethyl-1H-phospholium]iron(1+), Fe-01462 with

M 422.353 (ion)

Paramagnetic 17-electron complex.

Iodide: [78549-84-5].C₂₂H₄₀FeIP₂ M 549.257Green cryst. (THF). Sol. H₂O. Mp 206° dec.Deschamps, B. *et al*, *Inorg. Chem.*, 1981, **20**, 3252 (*synth, struct, ms*)Vahrenkamp, H. *et al*, *Organometallics*, 1982, **1**, 874.**C₂₃H₁₅FeMnN₂O₇P****Fe-01784****Dinitrosyl(pentacarbonylmanganio)(triphenylphosphine)iron, 8Cl**

[28939-17-5]

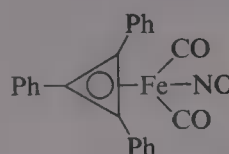


M 573.139

Characterised spectroscopically.

Hieber, W. *et al*, *Z. Naturforsch., B*, 1970, **25**, 663 (*synth, ir*)**C₂₃H₁₅FeNO₃****Fe-01785****Dicarbonylnitrosyl(1,2,3-η)-1,2,3-triphenyl-2-cyclopropen-1-yl]iron, 10Cl**

[82661-42-5]

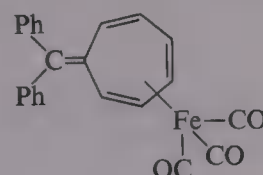


M 409.223

Maroon cryst.

Hughes, R.P. *et al*, *Organometallics*, 1982, **1**, 1403 (*synth, ir, pmr, cmr*)**C₂₃H₁₆FeO₃****Fe-01786****Tricarbonyl[(1,2,3,4-η)-7-(diphenylmethylene)-1,3,5-cycloheptatriene]iron, 10Cl***Tricarbonyl*[[2,3,4,5-η)-2,4,6-cycloheptatrien-1-ylidene]phenylmethyl][benzene]iron, 9Cl

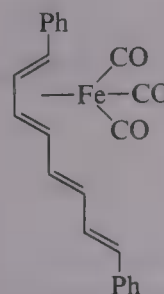
[67369-66-8]



M 396.225

Orange-red cryst. (CH₂Cl₂/EtOH). Mp 138-40°.Johnson, B.F.G. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 177.Howell, J.A.S. *et al*, *J. Organomet. Chem.*, 1972, **39**, 329 (*synth, pmr, ir*)Goldschmidt, Z. *et al*, *Tetrahedron Lett.*, 1978, 1225 (*synth, ir, uv, pmr*)**C₂₃H₁₈FeO₃****Fe-01787****Tricarbonyl[(1,2,3,4-η)-1,8-diphenyl-1,3,5,7-octatetraene]iron**

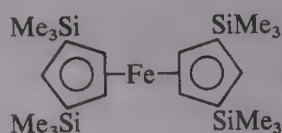
[34742-08-0]



M 398.240

C₂₂H₄₂FeSi₄**Fe-01781****1,1',3,3'-Tetrakis(trimethylsilyl)ferrocene, 9Cl**

[31761-05-4]

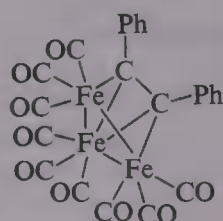


M 474.763

Red cryst. Mp 163-4°.

Tolstikov, G.A. *et al*, *Zh. Obshch. Khim.*, 1976, **46**, 1778 (*synth, ir, pmr*)**C₂₃H₁₀Fe₃O₉****Fe-01782****Nonacarbonyl(diphenylacetylene)triiron***Nonacarbonyl*[μ₃-[(1-η:1,2-η:1,2-η)-1,1'-(1,2-ethynediyl)]bis[benzene]]triiron, 10Cl. *Nonacarbonyl*[μ₃-(diphenylvinylene)]triiron, 8Cl

[12171-93-6]



M 597.868

Black needles (pet. ether). Mp 147° dec. Reacts with Ph₂C₂ to give the black or violet isomers of [Ph₂C₂]₂Fe₃(CO)₈.Blount, J.F. *et al*, *J. Am. Chem. Soc.*, 1966, **88**, 292 (*synth, struct, pmr, ir*)**C₂₃H₁₀Fe₄O₁₁P₂****Fe-01783****μ-Carbonyldecacarbonylbis(μ₄-phenylphosphino)tetrairon***Undecacarbonylbis(phenylphosphino)tetrairon*

[81534-73-8]

As μ-Carbonyldecacarbonylbis[μ₄-(1,1-dimethylethyl)-phosphino]tetrairon, Fe-01627 with

M 747.661

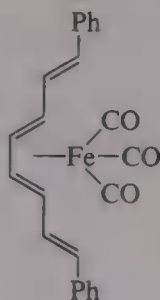
Black cryst. (C₆H₆/hexane). Mp 214° dec.Vahrenkamp, H. *et al*, *J. Organomet. Chem.*, 1982, **224**, C17 (*synth, ir, pmr*)

syn,syn-form

Solid. Mp 161-2°.

Whitlock, H.W. *et al*, *J. Am. Chem. Soc.*, 1971, **93**, 2483 (*synth*, *pmr*)**C₂₃H₁₈FeO₃****Fe-01788****Tricarbonyl[(3,4,5,6-η)-1,8-diphenyl-1,3,5,7-octatetraene]iron**

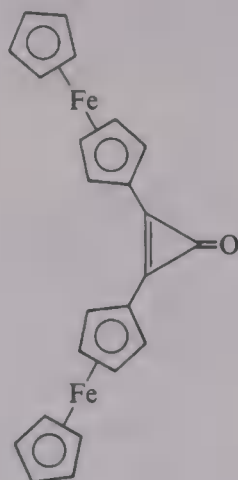
[34788-34-6]



M 398.240

syn,syn-formRed needles (C₆H₆). Mp 157-9°.Whitlock, H.W. *et al*, *J. Am. Chem. Soc.*, 1971, **93**, 2483 (*synth*, *pmr*)**C₂₃H₁₈Fe₂O****Fe-01789****1,2-Diferrocenylcyclopropenone****1,1''-(3-Oxo-1-cyclopropene-1,2-diyl)bisferrocene, 10Cl**

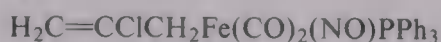
[56551-49-6]



M 422.089

Dark-red cryst. (C₆H₆/pet. ether). Mp 181° dec.Agranat, I. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 3829 (*synth*, *pmr*, *uv*, *ir*, *ms*)Agranat, I. *et al*, *Tetrahedron*, 1979, **35**, 733 (*synth*, *pmr*, *ms*, *ir*, *uv*, *cmr*)**C₂₃H₁₉ClFeNO₃P****Fe-01790****Dicarbonyl(2-chloro-2-propenyl)nitrosyl(triphenylphosphine)-iron, 9Cl**

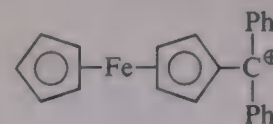
[36535-34-9]



M 479.682

Red cryst. (CH₂Cl₂/pentane). Mp 97°.Cardaci, G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 1808 (*synth*, *ir*, *pmr*)**C₂₃H₁₉Fe⁺****Fe-01791****Ferrocenyldiphenylmethylium(1+), 9Cl****Diphenyl(ferrocenyl)carbenium(1+)**

[51151-62-3]



M 351.250 (ion)

Tetrafluoroborate: [53265-81-9].C₂₃H₁₉BF₄Fe M 438.054

No phys. props. reported.

Hexafluorophosphate: [71163-87-6].C₂₃H₁₉F₆FeP M 496.214

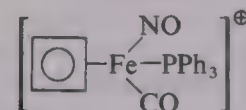
Dark-red cryst.

Perchlorate:C₂₃H₁₉ClFeO₄ M 450.701Sol. Me₂CO, MeNO₂, insol. C₆H₆, Et₂O.

▷Explodes on heating

Tetrachloroferrate:C₂₃H₁₉Cl₄Fe₂ M 548.909

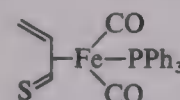
Dark-blue.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1965, **160**, 355 (*synth*)Allenmark, S., *Tetrahedron Lett.*, 1974, 371; *Chem. Scr.*, 1975, **7**, 97; *CA*, **83**, 79362.Ortaggi, G. *et al*, *Gazz. Chim. Ital.*, 1979, **109**, 13 (*synth*, *uv*, *ir*)Ceccon, A. *et al*, *J. Organomet. Chem.*, 1980, **185**, 231 (*synth*, *pmr*)**C₂₃H₁₉FeNO₂P⁺****Fe-01792****Carbonyl(η⁴-1,3-cyclobutadiene)nitrosyl(triphenylphosphine)-iron(1+), 9Cl**

M 428.229 (ion)

Hexafluorophosphate: [43140-27-8].C₂₃H₁₉F₆FeNO₂P₂ M 573.194Orange cryst. (CH₂Cl₂/hexane). Mp 175°.Efraty, A. *et al*, *Inorg. Chem.*, 1974, **13**, 1269 (*synth*, *ir*, *pmr*, *mössbauer*)**C₂₃H₁₉FeO₂PS****Fe-01793****Dicarbonyl[(S,1,2,3-η)-2-propenethial](triphenylphosphine)iron, 9Cl****(Thioacrolein)iron dicarbonyltriphenylphosphine**

[42830-98-8]

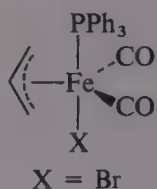


M 446.283

Red cryst. (C₆H₆/hexane). Mp 131-3°.Harlow, R.L. *et al*, *Acta Crystallogr., Sect. B*, 1973, **29**, 2633 (*struct*)Dittmer, D.C. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 2795 (*synth*, *ir*, *pmr*, *ms*, *cmr*, *mössbauer*)

C₂₃H₂₀BrFeO₂P **Fe-01794**

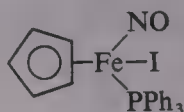
Bromodicarbonyl(η³-2-propenyl)(triphenylphosphine)iron, 9Cl
Bromo-π-allyldicarbonyl(triphenylphosphine)iron
 [59388-97-5]



M 495.135

Orange-red prisms (CH₂Cl₂/pentane). Mp 117-8° dec.Heck, R.F. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 2580 (*synth*, *ir*)**C₂₃H₂₀FeINOP** **Fe-01795**

(η⁵-2,4-Cyclopentadien-1-yl)iodonitrosyl(triphenylphosphine)iron, 10Cl
 [64537-48-0]

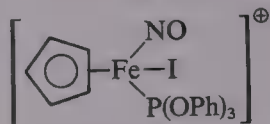


M 540.142

Red.

Pandey, V.N., *Transition Met. Chem.*, 1977, **2**, 48 (*synth*, *ir*)**C₂₃H₂₀FeINO₄P[⊕]** **Fe-01796**

(η⁵-2,4-Cyclopentadien-1-yl)iodonitrosyl(triphenyl phosphite-P)iron(1+), 9Cl
π-Cyclopentadienyliodonitrosyl(phosphorous acid)-iron(1+) triphenyl ester



M 588.141 (ion)

Characterised spectroscopically.

Hexafluorophosphate: [55451-26-8].C₂₃H₂₀F₆FeINO₄P₂ M 733.105

No phys. props. reported.

Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1975, **86**, C13 (*synth*)**C₂₃H₂₀FeIO₂P** **Fe-01797**

Dicarbonyliodo(η³-2-propenyl)(triphenylphosphine)iron, 9Cl
π-Allyldicarbonyliodo(triphenylphosphine)iron, 8Cl.
Iodo-π-allyldicarbonyl(triphenylphosphine)iron
 [12194-28-4]

As Bromodicarbonyl(η³-2-propenyl)(triphenylphosphine)-iron, Fe-01794 with

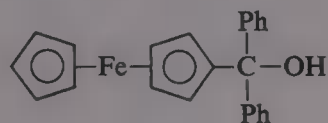
X = I

M 542.135

Dark-red or shiny-brown plates (CH₂Cl₂/pentane or MeOH). Spar. sol. non-polar solvs. Mp 121-2° dec. Exhibits polymorphism.

Heck, R.F. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 2580 (*synth*)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1965, **164**, 1058 (*synth*, *pmr*, *ir*)Minasyants, M.Kh. *et al*, *Zh. Strukt. Khim.*, 1968, **9**, 1055 (*struct*)**C₂₃H₂₀FeO****Fe-01798**

(Hydroxydiphenylmethyl)ferrocene, 9Cl
α,α-Diphenylferrocenemethanol.
Ferrocenyldiphenylcarbinol
 [1273-16-1]

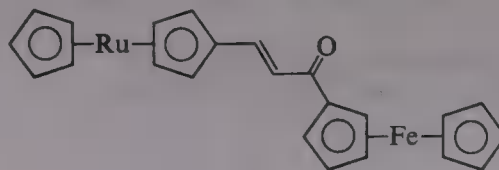


M 368.257

Orange cryst. (hexane). Mp 136-7°.

Benkeser, R.A. *et al*, *J. Org. Chem.*, 1961, **26**, 2569 (*synth*)Rausch, M.D. *et al*, *J. Organomet. Chem.*, 1973, **51**, 1 (*synth*)Good, M.L., *Ann. N.Y. Acad. Sci.*, 1974, 239; *CA*, **82**, 97247 (*mössbauer*)**C₂₃H₂₀FeORu****Fe-01799**

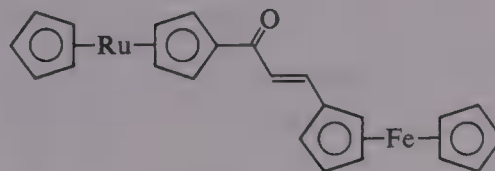
1-Ferrocenyl-3-ruthenocenyl-2-propen-1-one
(3-Ferrocenyl-3-oxo-1-propenyl)ruthenocene, 10Cl



M 469.327

(E)-form [79643-37-1]Cryst. (hexane/CHCl₃). Mp 257-9°.Kamiyama, S. *et al*, *Bull. Chem. Soc. Jpn.*, 1981, **54**, 2079 (*synth*, *ir*, *pmr*, *uv*)**C₂₃H₂₀FeORu****Fe-01800**

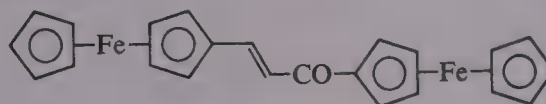
3-Ferrocenyl-1-ruthenocenyl-2-propen-1-one
(3-Ferrocenyl-1-oxo-2-propenyl)ruthenocene, 10Cl



M 469.327

(E)-form [79354-76-0]Cryst. (hexane/CHCl₃). Mp 218-20°.Kamiyama, S. *et al*, *Bull. Chem. Soc. Jpn.*, 1981, **54**, 2079 (*synth*, *ir*, *pmr*, *uv*)**C₂₃H₂₀Fe₂O****Fe-01801**

1,3-Diferrocenyl-2-propen-1-one
1,1''-(3-Oxo-1-propene-1,3-diyl)bisferrocene, 10Cl
 [12171-97-0]



M 424.104

(E)-form [72960-69-1]

Purple-red cryst. Mp 210° dec.

Schlögl, K. *et al*, *Monatsh. Chem.*, 1963, **94**, 376 (*synth*, *ir*)Kozlov, N.S. *et al*, *Dokl. Akad. Nauk. Beloruss. SSR*, 1973, **17**, 640 (*synth*, *ir*, *uv*)

El-Khawaga, A.M. *et al*, *Z. Naturforsch., B*, 1980, **36**, 119 (synth)

C₂₃H₂₀Fe₂O₂

Fe-01802

1,3-Diferrocenyl-1,3-propanedione, 8Cl

1,1''-(1,3-Dioxo-1,3-propanediyl)bisferrocene, 10Cl.
Diferrocenoylmethane

[12320-80-8]



M 440.104

Dark ruby-red needles (xylene). Spar. sol. pet. ether, C₆H₆, sol. conc. acids. Mp 162.5-163.5°.

Cu(II) complex:

C₄₆H₃₈CuFe₄O₄ M 941.738

Red solid. Mp 280° dec.

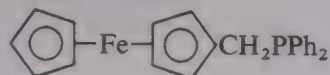
Wolf, L. *et al*, *Z. Chem.*, 1963, **3**, 469 (synth, uv)Hennig, L. *et al*, *J. Organomet. Chem.*, 1968, **11**, 307 (synth, uv)Schlögl, K. *et al*, *Monatsh. Chem.*, 1981, **112**, 91 (synth)C₂₃H₂₁FeP

Fe-01803

[(Diphenylphosphino)methyl]ferrocene, 9Cl

(Ferrocenylmethyl)diphenylphosphine

[51831-70-0]



M 384.240

Waxy yellow solid or yellow-brown cryst. (Et₂O/pet. ether). Mp 85-7°.

B, MeI: Golden needles (Me₂CO). Mp 201-2°.

Oxide: [(Diphenylphosphinyl)methyl]ferrocene, 9Cl.

C₂₃H₂₁FeOP M 400.239

Yellow needles (MeOH). Mp 207-9°.

Pauson, P.L. *et al*, *J. Chem. Soc.*, 1963, 2990 (synth)Marr, G. *et al*, *J. Chem. Soc., Perkin Trans. I*, 1973, 1955 (synth, pmr)Marr, G. *et al*, *J. Organomet. Chem.*, 1975, **88**, 357 (pmr, oxide)Charrier, C. *et al*, *Tetrahedron Lett.*, 1978, 2407 (synth, oxide)C₂₃H₂₂FeNO₂P

Fe-01804

[(1,2,3-η)-2-Butenyl]carbonylnitrosyl(triphenylphosphine)iron, 9Cl

[54309-92-1]

As Carbonylnitrosyl(η³-2-propenyl)(triphenylphosphine)-iron, Fe-01762 with

R = CH₃

M 431.253

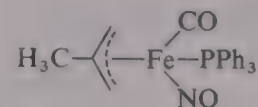
Red cryst. (CH₂Cl₂/pentane). Mp 116-8°.Cardaci, G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 1808 (synth, ir, pmr)C₂₃H₂₂FeNO₂P

Fe-01805

Carbonyl[(1,2,3-η)-2-methyl-2-propenyl]nitrosyl(triphenylphosphine)iron, 9Cl

Carbonyl(2-methyl-π-allyl)nitrosyl(triphenylphosphine)iron

[41550-90-7]



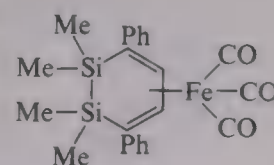
M 431.253

Red cryst. (CH₂Cl₂/pentane). Mp 158-60°.Cardaci, G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 1808 (synth, ir, pmr)C₂₃H₂₄FeO₃Si₂

Fe-01806

Tricarbonyl[(3,4,5,6-η)-1,1,2,2-tetramethyl-3,6-diphenyl-1,2-disilacyclohexa-3,5-diene]iron, 10Cl

[69593-52-8]



M 460.459

Mp 154-6°. On thermolysis yields Tricarbonyl[(2,3,4,5-η)-1,1-dimethyl-2,5-diphenylsilacyclopenta-2,4-diene]iron, Fe-01717.

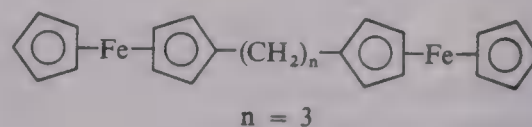
Nakadaira, Y. *et al*, *J. Organomet. Chem.*, 1979, **165**, 399 (synth, pmr, ir, ms)Sakurai, H. *et al*, *J. Organomet. Chem.*, 1980, **201**, C14 (nmr)C₂₃H₂₄Fe₂

Fe-01807

1,3-Diferrocenylpropane

1,1''-Trimethylenediferrocene, 8Cl. 1,1''-(1,3-Propanediyl)bisferrocene

[12402-44-7]



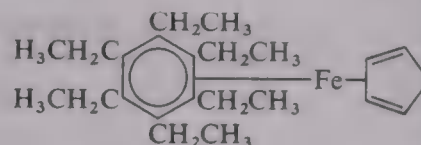
n = 3

M 412.137

Yellow plates (pet. ether). Mp 87-9°.

Schlögl, K. *et al*, *Monatsh. Chem.*, 1963, **94**, 376 (synth)C₂₃H₃₆Fe

Fe-01808

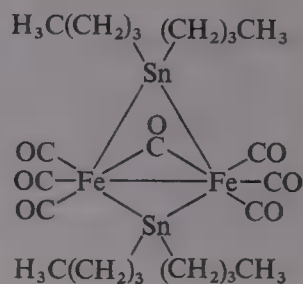
(η⁴-1,3-Cyclopentadiene)[(1,2,3,4,5,6-η)-1,2,3,4,5,6-hexaethylbenzene]iron

M 368.384

Characterised spectroscopically. No phys. props. reported.

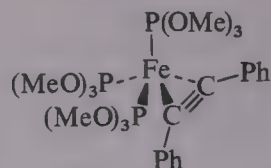
Michaud, P. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 3755 (synth, pmr, cmr, mössbauer, ms, ir)

C₂₃H₃₆Fe₂O₇Sn₂ **Fe-01809**
μ-Carbonylhexacarbonylbis[μ-(dibutylstannylene)]diiron, 9Cl
Heptacarbonylbis(dibutylstannylene)diiron
 [56280-09-2]



M 773.607
 Air-sensitive yellow-brown oil.
 Marks, T.J. *et al*, *Inorg. Chem.*, 1976, **15**, 1307 (*synth*, *ir*, *cmr*)

C₂₃H₃₇FeO₉P₃ **Fe-01810**
[1,1'-(η²-1,2-Ethynediyl)bis(benzene)]tris(trimethyl phosphite-P)iron, 10Cl
(Diphenylacetylene)tris(phosphorus acid)iron nonamethyl ester
 [68643-76-5]



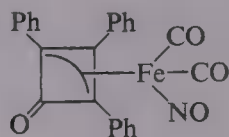
M 606.308
 Deep-purple cryst. (pentane). Mp 56-7°.
 Harris, T.V. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 6966 (*pmr*, *nmr*)

C₂₄H₁₀Fe₄P₂O₁₂ **Fe-01811**
Dodecacarbonylbis(μ₄-phenylphosphino)tetrairon
Bis(phenylphosphino)tetra(tricarbonyliron)
 [81456-90-8]
 As Dodecacarbonylbis[μ₄-(1,1-dimethylethyl)phosphino]-tetrairon, Fe-01673 with

R = Ph

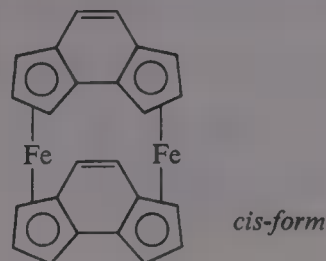
M 775.671
 Dark brown-red cryst. (hexane). Mp 90°.
 Vahrenkamp, H. *et al*, *J. Organomet. Chem.*, 1982, **224**, C17 (*synth*, *ir*, *pmr*)
 Vahrenkamp, H. *et al*, *Organometallics*, 1982, **1**, 874.

C₂₄H₁₅FeNO₃ **Fe-01812**
Dicarbonylnitrosyl[(1,2,3-η)-4-oxo-1,2,3-triphenyl-2-cyclobuten-1-yl]iron
 [82661-39-0]



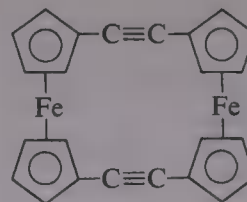
M 421.234
 Orange cryst.
 Hughes, R.P. *et al*, *Organometallics*, 1982, **1**, 1403 (*synth*, *ir*, *pmr*, *cmr*)

C₂₄H₁₆Fe₂ **Fe-01813**
Bis(π₂-dihydro-*as*-indacenylene)diiron, 8Cl
 [12194-39-7]



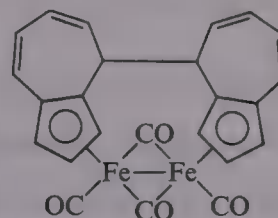
M 416.084
 Isol. as a mixt. of *cis* and *trans* isomers. Maroon cryst. (C₆H₆ or CS₂), dark-red prisms (toluene). Insol. polar solvs. Mp >350°. Bp_{0.000001} 150° subl.
 Katz, T.J. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 734 (*synth*, *uv*, *ms*, *ir*)
 Gitany, R. *et al*, *Tetrahedron Lett.*, 1970, 2723 (*struct*, *pmr*)

C₂₄H₁₆Fe₂ **Fe-01814**
[2.2]Ferrocenophane-1,13-diyne
1,1''-1',1'''-Bis(1,2-ethynediyl)bisferrocene, 9Cl
 [59187-97-2]



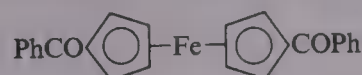
M 416.084
 Orange cryst. Spar. sol. org. solvs. Mp >380° dec.
 Rosenblum, M. *et al*, *J. Organomet. Chem.*, 1970, **24**, 469 (*synth*, *uv*, *ms*)
 Levanda, C. *et al*, *J. Org. Chem.*, 1976, **41**, 2700.

C₂₄H₁₆Fe₂O₄ **Fe-01815**
Di-μ-carbonyldicarbonyl-[μ-[(1,2,3,3a,8a-η:1',2',3',3a',8a'-η)-1,1',4,4'-tetrahydro[4,4'-biazulene]-1,1'-diyl]]diiron, 9Cl
 [57774-50-2]



M 480.082
 Dark-red cryst. (hexane/CH₂Cl₂).
 Cotton, F.A. *et al*, *Inorg. Chem.*, 1976, **15**, 557 (*synth*, *ir*, *pmr*, *cmr*, *ms*, *struct*)

C₂₄H₁₈FeO₂ **Fe-01816**
1,1'-Dibenzoylferrocene, 9Cl
 [12180-80-2]



M 394.252
 Dark-red needles (pet. ether/Et₂O). Mp 106.5-106.7°.

*Dioxime:*C₂₄H₂₀FeN₂O₂ M 424.281

Mp 172-3° dec.

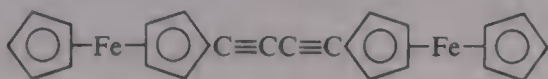
- Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR*, 1956, **107**, 262 (*synth*)
 Riemschneider, R. *et al*, *Chem. Ber.*, 1956, **89**, 155 (*synth*)
 Struchkov, Yu.T., *Dokl. Akad. Nauk SSSR*, 1956, **110**, 67; *CA*, **52**, 4282 (*struct*)
 Rausch, M.D. *et al*, *J. Org. Chem.*, 1957, **22**, 903; 1963, **28**, 3225 (*synth*, *pmr*)
 Fischer, D.W., *Acta Crystallogr.*, 1964, **17**, 619.
 Perjessy, A. *et al*, *Chem. Zvesti*, 1969, **23**, 533 (*ir*)

C₂₄H₁₈Fe₂

Fe-01817

1,4-Diferrocenyl-1,3-butadiyne

1,1''-(1,3-butadiyne-1,4-diyl)bisferrocene, 9Cl
 [1273-18-3]



M 418.100

Orange needles (pet. ether). Mp 196-8°.

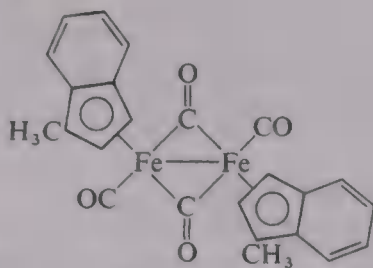
- Schlögl, K. *et al*, *Monatsh. Chem.*, 1963, **94**, 376 (*synth*)
 Schlögl, K. *et al*, *J. Organomet. Chem.*, 1966, **6**, 399 (*synth*, *uv*, *ir*)

C₂₄H₁₈Fe₂O₄

Fe-01818

Di-μ-carbonyldicarbonylbis[(1,2,3,3a,7a-η)-1-methyl-1H-inden-1-yl]diiron, 9Cl

Tetracarbonylbis(1-methylindenyl)diiron. Bis[1-methylindenyldicarbonyliron]
 [54510-22-4]



M 482.098

Dark-red cryst. (heptane/pentane).

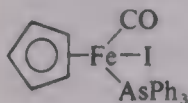
- Attig, T.G. *et al*, *J. Organomet. Chem.*, 1974, **82**, 397 (*synth*, *derivs*)

C₂₄H₂₀AsFeIO

Fe-01819

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)iido(triphenylarsine)-iron

(η⁵-Cyclopentadienyl)carbonyliido(triphenylarsine)iron. Cyclopentadienylcarbonyl(triphenylarsine)iron iodide
 [31781-34-7]



M 582.095

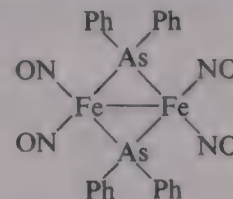
No. phys. props. reported.

- Parker, D.J., *J. Chem. Soc. (A)*, 1970, 1382 (*synth*, *ir*)
 Tripathi, S.C. *et al*, *Transition Met. Chem.*, 1976, **1**, 266 (*synth*)

C₂₄H₂₀As₂Fe₂N₄O₄

Fe-01820

Bis(diphenylarsino)tetranitrosyldiiron, 8Cl



M 689.984

Dark purple-red cryst. (THF). Mp 252°.

Monomer: (Diphenylarsino)dinitrosyliron.

C₁₂H₁₀AsFeN₂O₂ M 344.992

Unknown.

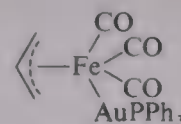
- Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1966, **344**, 292 (*synth*, *ir*)

C₂₄H₂₀AuFeO₃P

Fe-01821

Tricarbonyl(η³-2-propenyl)((triphenylphosphine)gold)iron

Allyltricarbonyl[(triphenylphosphine)aurio]iron
 [73891-25-5]



M 640.207

Small yellow cryst. (hexane). Mp 100-10° dec.

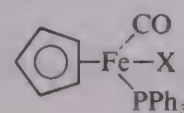
- Simon, F.E. *et al*, *Inorg. Chem.*, 1980, **19**, 2338 (*synth*, *ir*, *pmr*, *struct*)

C₂₄H₂₀BrFeOP

Fe-01822

Bromocarbonyl(η⁵-2,4-cyclopentadien-1-yl)(triphenylphosphine)iron, 9Cl

Cyclopentadienylcarbonyl(triphenylphosphine)iron bromide. (η⁵-Cyclopentadienyl)-bromocarbonyl(triphenylphosphine)iron
 [12099-12-6]



X = Br

M 491.146

Green cryst. (CHCl₃/pet. ether). Mp 143-4°.

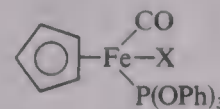
- Treichel, P.M. *et al*, *Inorg. Chem.*, 1966, **5**, 1177 (*synth*, *ir*)
 Aris, K.R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 2222 (*synth*, *ir*, *pmr*)

C₂₄H₂₀BrFeO₄P

Fe-01823

Bromocarbonyl(η⁵-2,4-cyclopentadien-1-yl)(triphenyl phosphite-P)iron, 9Cl

Bromocarbonyl-π-cyclopentadienyl(phosphorous acid)-iron triphenyl ester, 8Cl. (η⁵-Cyclopentadienyl)bromocarbonyl(triphenyl phosphite)iron. Cyclopentadienylcarbonyl(triphenyl phosphite)iron bromide
 [32993-40-1]



X = Br

M 539.144

Cryst. (octane). No colour mentioned, the I analogue is green.

Brown, D.A. *et al*, *Inorg. Chim. Acta*, 1969, **3**, 346 (*synth*, *ir*)
 Allen, D.M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1899.

C₂₄H₂₀ClFeOP Fe-01824

Carbonylchloro(η⁵-2,4-cyclopentadien-1-yl)(triphenylphosphine)iron, 9Cl

Cyclopentadienylcarbonyl(triphenylphosphine)iron chloride. (η⁵-Cyclopentadienyl)carbonyl(chloro)-(triphenylphosphine)iron

[12099-13-7]

As Bromocarbonyl(η⁵-2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01822 with

X = Cl

M 446.695

Green cryst. (C₆H₆/hexane). Mp 123-5°. *ir* ν_{CO} 1962 cm⁻¹.

Treichel, P.M. *et al*, *Inorg. Chem.*, 1966, **5**, 1177 (*synth*, *ir*)
 Kalck, P. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1972, 66 (*synth*)
 Nesmeyanov, A.N. *et al*, *Bull. Acad. Sci. USSR (Engl. Transl.)*, 1976, **25**, 142 (*synth*)

C₂₄H₂₀ClFeO₄P Fe-01825

Carbonylchloro(η⁵-2,4-cyclopentadien-1-yl)(triphenyl phosphite-P)iron

Carbonylchloro-π-cyclopentadienyl(phosphorous acid)-iron triphenyl ester, 8Cl. (η⁵-Cyclopentadienyl)carbonylchloro(triphenyl phosphite)iron. Cyclopentadienylcarbonyl(triphenyl phosphite)iron chloride

As Bromocarbonyl(η⁵-2,4-cyclopentadien-1-yl)(triphenyl phosphite-P)iron, Fe-01823 with

X = Cl

M 494.693

(±)-*form*

Orange cryst. (C₆H₆/pet. ether).

Haines, R.J. *et al*, *J. Organomet. Chem.*, 1971, **28**, 405 (*synth*, *ir*, *pmr*)

C₂₄H₂₀FeIOP Fe-01826

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)iodo(triphenylphosphine)iron, 9Cl

(η⁵-Cyclopentadienyl)carbonyliodo(triphenylphosphine)-iron. Cyclopentadienylcarbonyl(triphenylphosphine)iron iodide

[12099-18-2]

As Bromocarbonyl(η⁵-2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01822 with

X = I

M 538.147

Dark-green cryst. Insol. H₂O, pet. ether. Mp 178-9° dec., 230-5° dec. *ir* ν_{CO} 1954 (1938) cm⁻¹. Air-stable in solid state, O₂-sensitive in soln.

Treichel, P.M. *et al*, *Inorg. Chem.*, 1966, **5**, 1177 (*synth*, *ir*, *pmr*)

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1967, **7**, 329 (*synth*)

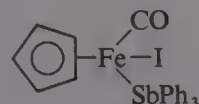
Faller, J.W. *et al*, *J. Organomet. Chem.*, 1975, **96**, 99 (*synth*, *ir*)

C₂₄H₂₀FeIOSb Fe-01827

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)iodo(triphenylstibine)-iron

(η⁵-Cyclopentadienyl)carbonyliodo(triphenylstibine)-iron. Cyclopentadienylcarbonyl(triphenylantimony)iron iodide

[31975-95-8]



M 628.923

Mp 128-9°.

Brown, D.A. *et al*, *Inorg. Chim. Acta*, 1970, **4**, 428 (*synth*, *ir*)
 Tripathi, S.C. *et al*, *Transition Met. Chem.*, 1976, **1**, 266 (*synth*)

C₂₄H₂₀FeIO₄P Fe-01828

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)iodo(triphenyl phosphite-P)iron, 9Cl

Carbonyl-π-cyclopentadienylido(phosphorous acid)-iron triphenyl ester, 8Cl. (η⁵-Cyclopentadienyl)carbonyliodo(triphenyl phosphite)iron. Cyclopentadienylcarbonyl(triphenyl phosphite)iron iodide

[31988-05-3]

As Bromocarbonyl(η⁵-2,4-cyclopentadien-1-yl)(triphenyl phosphite-P)iron, Fe-01823 with

X = I

M 586.145

Green cryst. (C₆H₆/octane or CHCl₃/octane). Mp 136-8°. *ir* shows 2 CO bands, prob. due to conformational isom. of the P(OR)₃ group.

Haines, R.J. *et al*, *J. Chem. Soc., Chem. Commun.*, 1968, 1513 (*synth*, *conformn*)

Brown, D.A. *et al*, *Inorg. Chim. Acta*, 1969, **3**, 346 (*synth*, *ir*)

Haines, R.J. *et al*, *J. Organomet. Chem.*, 1971, **28**, 405 (*synth*)

C₂₄H₂₀Fe₂N₄O₄P₂ Fe-01829

Bis[μ-(diphenylphosphino)]tetranitrosyldiiron, 8Cl

[14917-04-5]

As Bis[μ-[bis(trifluoromethyl)phosphine]]tetranitrosyldiiron, Fe-00037 with

R = Ph

M 602.088

Dark-red plates (toluene). Spar. sol. org. solvs. Mp 313-4°.

Hayter, R.G. *et al*, *Inorg. Chem.*, 1964, **3**, 717 (*synth*, *ir*)

Keller, E. *et al*, *Chem. Ber.*, 1979, **112**, 1626 (*struct*)

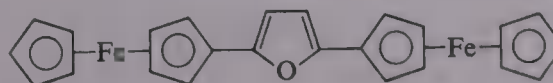
Rauchfuss, T.B. *et al*, *Inorg. Chem.*, 1982, **21**, 827 (*synth*, *ir*, *pmr*)

C₂₄H₂₀Fe₂O Fe-01830

2,5-Diferrocenylfuran

1,1''-(2,5-Furandiyl)bisferrocene, 9Cl

[12309-34-1]



M 436.115

Red plates. Mp 188-9°.

Yamakawa, K. *et al*, *Tetrahedron*, 1968, **24**, 3615 (*synth*, *ir*, *pmr*)

$C_{24}H_{20}Fe_2O_2S_2^{\oplus}$ Fe-01831

Bis[μ -(benzenethiolato)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron(1+), 9Cl

As Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron(1+), Fe-01232 with

R = Ph, n = 1

M 516.235 (ion)

Cis and trans-forms isol.

Tetraphenylborate: [52732-87-3].

$C_{48}H_{40}BF_2O_2S_2$ M 835.467

Green solid.

de Beer, J.A. et al, *J. Chem. Soc., Dalton Trans.*, 1973, 2341 (synth, ir, mössbauer, esr, props)

 $C_{24}H_{20}Fe_2O_2S_2^{\oplus}$ Fe-01832

Bis[μ -(benzenethiolato)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron(2+), 9Cl

Dicarbonylbis(η^5 -cyclopentadienyl)bis(μ -phenylthiolato)diiron(2+)

As Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron(1+), Fe-01232 with

R = Ph, n = 2

M 516.235 (ion)

Diamagnetic.

cis-form

Bis(hexafluorophosphate): [52856-44-7].

$C_{24}H_{20}F_{12}Fe_2O_2P_2S_2$ M 806.163

Yellow.

trans-form

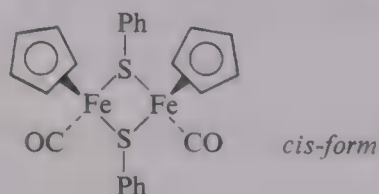
Bis(hexafluorophosphate): [52949-47-0]. Yellow.

DeBeer, J.A. et al, *J. Chem. Soc., Dalton Trans.*, 1973, 2341 (synth, ir, mössbauer)

 $C_{24}H_{20}Fe_2O_2S_2$ Fe-01833

Bis[μ -(benzenethiolato)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron, 9Cl

Bis(μ -benzenethiolato)dicarbonyldi- π -cyclopentadienyldiiron, 8Cl



M 516.235

cis-form [11057-48-0]

Black cryst. (CH_2Cl_2 /pet. ether). Mp 170°. Stable isomer.

trans-form [11057-49-1]

Dark-brown cryst. (CH_2Cl_2 /pet. ether). Mp 166°. Unstable isomer.

Ahmad, M. et al, *J. Organomet. Chem.*, 1966, 6, 1 (synth, pmr, ir)

Ferguson, G. et al, *J. Chem. Soc., Chem. Commun.*, 1968, 1165 (cryst struct)

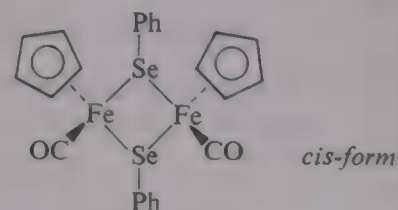
Haines, R.J. et al, *J. Organomet. Chem.*, 1975, 85, 89 (synth, ir, pmr, mössbauer)

Killops, S.D. et al, *J. Chem. Soc., Dalton Trans.*, 1978, 1260 (ir, pmr)

 $C_{24}H_{20}Fe_2O_2Se_2$ Fe-01834

Bis[μ -(benzeneselenolato)]dicarbonylbis(η^5 -cyclopentadien-1-yl)diiron

Bis(μ -benzeneselenolato)dicarbonyldi- π -cyclopentadienyldiiron, 8Cl



M 610.035

cis-form [11057-50-4]

Gold needles (CH_2Cl_2 /hexane). Mp 170-2° dec.

trans-form [11057-51-5]

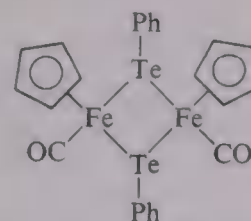
Dark cryst. (CH_2Cl_2 /hexane). Mp 170-2°.

Schermer, E.D. et al, *J. Organomet. Chem.*, 1971, 27, 83 (synth, ir, pmr)

 $C_{24}H_{20}Fe_2O_2Te_2$ Fe-01835

Bis[μ -(benzenetellurolato)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron

Bis(μ -benzenetellurolato)dicarbonyldi- π -cyclopentadienyldiiron, 8Cl



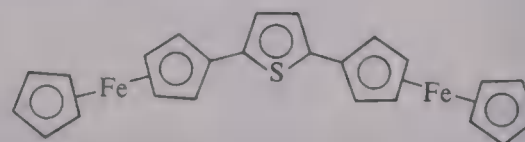
M 707.315

Isol. as mixt. of isomers. Dark-brown cryst. (CH_2Cl_2 /EtOH).

Schermer, E.D. et al, *J. Organomet. Chem.*, 1971, 27, 83 (synth, ir, pmr)

 $C_{24}H_{20}Fe_2S$ Fe-01836

2,5-Diferrocenylthiophene



M 452.176

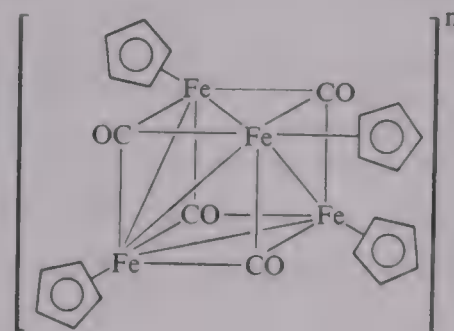
Cryst. (cyclohexane). Mp 208-10° dec.

Egger, H. et al, *Monatsh. Chem.*, 1964, 95, 1750 (synth, ir, uv)

 $C_{24}H_{20}Fe_4O_4^{\ominus}$ Fe-01837

Tetra- μ_3 -carbonyltetrakis(η^5 -2,4-cyclopentadien-1-yl)tetraferate(1-), 9Cl

[12793-17-8]



n = 1 -

M 595.808 (ion)

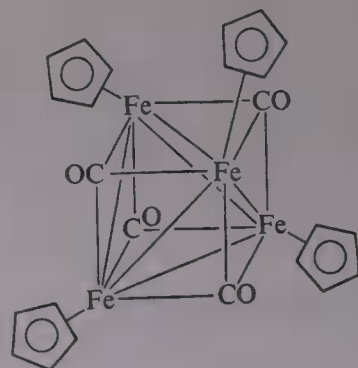
Yellow, characterised in soln. only. Extremely air-sensitive. Paramagnetic.

Ferguson, J.A. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 3409 (*synth*, *ir*, *uv*, *esr*)

C₂₄H₂₀Fe₄O₄ Fe-01838

Tetra-μ₃-carbonyltetrakis(η⁵-2,4-cyclopentadien-1-yl)tetrairon, 9Cl

Tetra-μ₃-carbonyltetra-π-cyclopentadienyltetrairon, 8Cl
[12203-87-1]



M 595.808

Dark-green cryst. Forms 1:1 and 1:2 addition compds. with trihaloboranes. Forms a mono- and a dication and a monoanion.

King, R.B., *Inorg. Chem.*, 1966, **5**, 2227 (*synth*)

Neuman, M.A. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 3383 (*cryst struct*)

Symon, D.A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1879 (*synth*, *ir*, *props*)

Braunstein, P. *et al*, *J. Thermal Anal.*, 1975, **8**, 109; *CA*, **84**, 17538p (*synth*)

Symon, D.A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 2140 (*pe*)

Shriver, D.F. *et al*, *J. Organomet. Chem.*, 1976, **117**, 277 (*raman*)

C₂₄H₂₀Fe₄O₄⁺ Fe-01839

Tetra-μ₃-carbonyltetrakis(η⁵-2,4-cyclopentadien-1-yl)tetrairon(1+), 9Cl

Tetra-μ₃-carbonyltetra-π-cyclopentadienyltetrairon(11+), 8Cl
[51923-54-7]

As Tetra-

μ₃-carbonyltetrakis(η⁵-2,4-cyclopentadien-1-yl)tetraferate(1-), Fe-01837 with

n = 1+

M 595.808 (ion)

Paramagnetic.

Heptaiodide: [52391-12-5].

C₂₄H₂₀Fe₄I₇O₄ M 1484.139

Pale-green.

Hexafluorophosphate: [12791-65-0].

C₂₄H₂₀F₆Fe₄O₄P M 740.772

Dark-green cryst. (Me₂CO/CCl₄), mod. air-stable as solid.

Dahl, L.F. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 3389 (*cryst struct*)

Ferguson, J.A. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 3409 (*synth*, *ir*, *uv*)

Symon, D.A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1879 (*synth*)

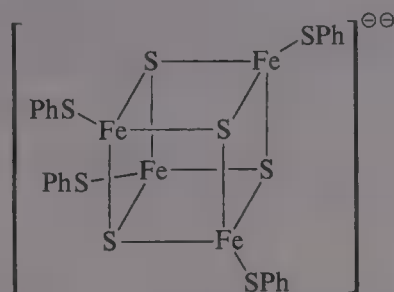
Frankel, R.B. *et al*, *Inorg. Chem.*, 1974, **13**, 2515 (*mössbauer*)

Bock, C.R. *et al*, *Inorg. Chem.*, 1977, **16**, 1309 (*synth*)

C₂₄H₂₀Fe₄S₈[⊖]

Fe-01840

Tetrakis(benzenethiolato)tetra-μ₃-thioxotetraferate(2-), 9Cl
[52627-89-1]



M 788.290 (ion)

Analogue for ferredoxin active site.

Bis(tetrabutylammonium) salt: [52586-83-1].

C₅₆H₉₂Fe₄N₂S₈ M 1273.224

Large black needles (MeOH). Mp 190-1° (sealed tube under N₂).

Bis(tetraphenylarsonium) salt: [53260-81-4].

C₇₂H₆₀As₂Fe₄S₈ M 1554.977

Black cryst. (Me₂CO). Mp 192-4°.

Averill, B.A. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 3034 (*bibl*, *spectra*)

Laskowski, E.J. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 5322 (*synth*, *cryst struct*)

Wong, G.B. *et al*, *Inorg. Chem.*, 1978, **17**, 578 (*synth*)

Christou, G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1979, 1093 (*synth*)

Hagen, K.S. *et al*, *Inorg. Chim. Acta*, 1980, **45**, L17 (*synth*)

Hagen, K.S. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 4054 (*synth*)

Inorg. Synth., 1982, **21**, 35 (*synth*)

C₂₄H₂₁FeOP

Fe-01841

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)hydro(triphenylphosphine)iron, 9Cl

(η⁵-Cyclopentadienyl)carbonyl(triphenylphosphine)iron hydride. (η⁵-Cyclopentadienyl)carbonyl(hydrido)-(triphenylphosphine)iron

[32660-22-3]

As Bromocarbonyl(η⁵-2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01822 with

X = H

M 412.250

Yellow cryst. (C₆H₆/hexane). Mp 130° dec. *ir* ν_{CO} 1934 cm⁻¹.

Su, S.R. *et al*, *J. Organomet. Chem.*, 1971, **27**, 231 (*synth*)

Kalck, P. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1972, **274**, 66 (*synth*)

Van Doorn, J.A. *et al*, *J. Organomet. Chem.*, 1976, **105**, 245 (*synth*, *pmr*)

C₂₄H₂₁FeO₂P

Fe-01842

(η⁴-1,3-Butadiene)dicarbonyl(triphenylphosphine)iron, 10Cl

[15748-39-7]

As (η⁴-1,3-Butadiene)dicarbonyl(phosphorous trifluoride)iron, Fe-00128 with

X = PPh₃

M 428.249

Yellow cryst. Mp 144-5°.

Chaudhari, F.M. *et al*, *J. Organomet. Chem.*, 1966, **5**, 73 (*synth*, *ir*, *pmr*)

Pearson, A.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 884 (*synth*, *pmr*, *cmr*)

C₂₄H₂₁FeO₄P

Fe-01843

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)hydro(triphenyl phosphite-P)iron, 9Cl*Carbonyl-π-cyclopentadienylhydro(phosphorous acid)-iron triphenyl ester. Cyclopentadienylcarbonyl(triphenyl phosphite)iron hydride. (η⁵-Cyclopentadienyl)carbonylhydrido(triphenyl phosphite)iron*

[59160-82-6]

As Bromocarbonyl(η⁵-2,4-cyclopentadien-1-yl)(triphenyl phosphite-P)iron, Fe-01823 with

X = H

M 460.248

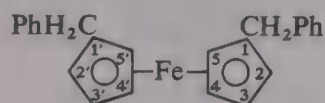
Characterised spectroscopically.

Van Doorn, J.A. *et al*, *J. Organomet. Chem.*, 1976, **105**, 245 (synth, pmr)C₂₄H₂₂Fe

Fe-01844

1,1'-Dibenzylferrocene*1,1'-Bis(phenylmethyl)ferrocene, 9Cl. Bis(benzyl-π-cyclopentadienyl)iron*

[12114-61-3]



M 366.285

Yellow cryst. (ligroin). Mp 103-5°.

Hallam, B.F. *et al*, *J. Chem. Soc.*, 1956, 3030 (synth)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1956, **107**, 262 (synth)Rausch, M.D. *et al*, *J. Org. Chem.*, 1957, **22**, 903 (synth)Schlöggl, K. *et al*, *Monatsh. Chem.*, 1961, **92**, 921 (synth)Köhler, F.H. *et al*, *J. Organomet. Chem.*, 1975, **96**, 391 (cmr)Sališová, M. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1979, **18**, 792 (synth)Shul'pin, G.B. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1980, 168 (pmr)C₂₄H₂₂Fe

Fe-01845

1,3-Dibenzylferrocene*1,3-Bis(phenylmethyl)ferrocene, 9Cl*

[42765-62-8]

M 366.285

Yellow air-stable cryst. (pet. ether). Sol. C₆H₆, pet. ether, spar. sol. EtOH. Mp 101.5-102.5°.Hallam, B.F. *et al*, *J. Chem. Soc.*, 1956, 3030 (synth)Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1956, **107**, 262 (synth)Bawn, W.L., *Anal. Chem.*, 1959, **31**, 1308 (cryst struct)Lundqvist, R.T. *et al*, *J. Org. Chem.*, 1962, **27**, 1167 (uv)Akiyama, T. *et al*, *Bull. Chem. Soc. Jpn.*, 1973, **46**, 1851 (pmr, ir)C₂₄H₂₂Fe₂

Fe-01846

1,4-Diferrocenyl-1,3-butadiene*1,1''-(1,3-Butadiene-1,4-diyl)bisferrocene. (1,3-Butadienedicyclopentadienylene)bis(cyclopentadienyl)iron*

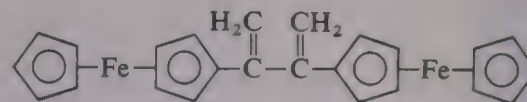
M 422.132

Red cryst. (C₆H₆/pet. ether). Mp 230° (darkens).Schlöggl, K. *et al*, *Monatsh. Chem.*, 1961, **92**, 219 (synth)Sonogashira, K. *et al*, *Kogyo Kagaku Zasshi*, 1963, **66**, 1090 (synth, uv)Schlöggl, K. *et al*, *Justus Liebigs Ann. Chem.*, 1964, **676**, 76, 88 (synth, uv)Nakamura, A. *et al*, *J. Organomet. Chem.*, 1965, **3**, 355 (uv)C₂₄H₂₂Fe₂

Fe-01847

2,3-Diferrocenyl-1,3-butadiene*1,1''-[1,2-Bis(methylene)-1,2-ethanediyl]bisferrocene, 9Cl*

[55351-93-4]



M 422.132

Lacan, M. *et al*, *CA*, 1975, **82**, 73136 (synth)C₂₄H₂₂Fe₂O₂

Fe-01848

1,4-Diferrocenyl-1,4-butanedione*1,1''-(1,4-Dioxo-1,4-butanediyl)bisferrocene, 9Cl. 1,2-Diferrocenoylthane. Succinylbisferrocene*

[39385-23-4]

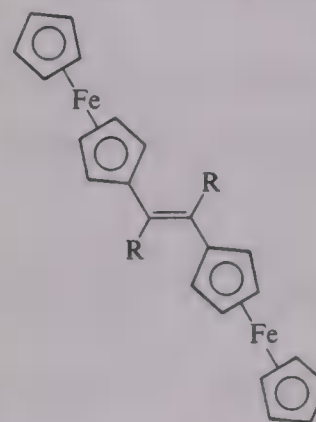


M 454.131

Orange-red cryst. (EtOAc). Mp 185-6°.

Sugiyama, N. *et al*, *Bull. Chem. Soc. Jpn.*, 1962, **35**, 767; 1423 (synth)Yamakawa, K. *et al*, *J. Organomet. Chem.*, 1973, **50**, C43 (synth)C₂₄H₂₄Fe₂

Fe-01849

2,3-Diferrocenyl-2-butene*1,1''-(1,2-Dimethyl-1,2-ethenediyl)bisferrocene, 9Cl*R = CH₃

M 424.148

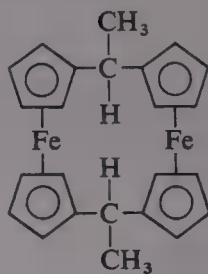
(E)-form [51197-83-2]

Solid. Mp 172°.

Patin, H. *et al*, *Bull. Soc. Chim. Fr.*, 1973, 2413 (synth, pmr)

C₂₄H₂₄Fe₂

1,12-Dimethyl[1.1]ferrocenophane, 9Cl
1,1':1'',1'''-Diethylidenediferrocene
 [1294-42-4]

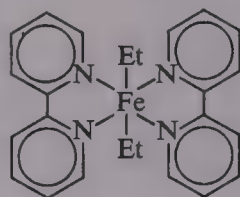


M 424.148

Orange-yellow rods or blades (ligroin). Mp 185-6°.

Watts, W.E., *J. Am. Chem. Soc.*, 1966, **88**, 855 (*synth, ms, pmr*)Barr, T.H. *et al*, *Tetrahedron*, 1969, **25**, 6001 (*synth, pmr, uv*)McKechnie, J.S. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1973, 138 (*struct*)Morrison, W.H. *et al*, *Inorg. Chem.*, 1975, **14**, 2331 (*mössbauer*)C₂₄H₂₆FeN₄

Bis(2,2'-bipyridine)diethyliron, 8Cl
Diethylbis(dipyridyl)iron
 [15627-21-1]



M 426.343

Butadiene copolymerisation catalyst. Dark-blue air-sensitive cryst. Sl. sol. Et₂O, C₆H₆, Me₂CO. Gives blue soln. in C₆H₆; reacts with hydroxylic solvs.Yamamoto, A. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 1878 (*synth, uv, ir*)C₂₄H₂₆Fe₂**1,4-Diferrocenylbutane***1,1''-Tetramethylenediferrocene, 8Cl. 1,1''-(1,4-Butanediyl)bisferrocene*

[1274-11-9]

As 1,3-Diferrocenylpropane, Fe-01807 with

n = 4

M 426.163

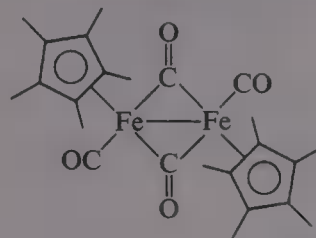
Yellow plates (pet. ether). Mp 105-11°.

Schlögl, K. *et al*, *Monatsh. Chem.*, 1961, **92**, 219; 1962, **93**, 861; 1963, **94**, 376 (*synth*)

Fe-01850

C₂₄H₃₀Fe₂O₄

Di-μ-carbonyldicarbonylbis[(1,2,3,4,5-η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]diiron, 9Cl
Bis(pentamethylcyclopentadienyl)tetracarbonyldiiron.
Bis[pentamethylcyclopentadienyldicarbonyliron]. Tetra-
carbonylbis(pentamethylcyclopentadienyl)diiron
 [35344-11-7]



M 494.193

Red-violet cryst. (CH₂Cl₂/hexane). Mp ca. 280° dec.King, R.B. *et al*, *J. Organomet. Chem.*, 1967, **8**, 287 (*synth, ir, pmr, uv, ms*)C₂₄H₃₆Cl₂Fe**1,1'-Bis(7-chloroheptyl)ferrocene, 9Cl**

[56732-55-9]

As 1,1'-Bis(5-chloropentyl)ferrocene, Fe-01688 with

n = 7

M 451.301

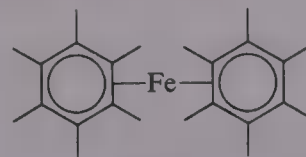
Red liq., solidifies at -78°.

Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **92**, 341 (*synth, ir, pmr, cmr*)

Fe-01854

C₂₄H₃₆Fe**Bis[(1,2,3,4,5,6-η)-hexamethylbenzene]iron, 9Cl**

[55280-55-2]

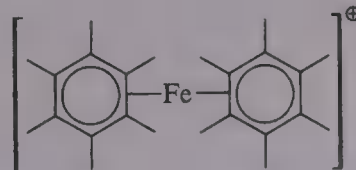


M 380.395

20 electron system. Air-, and light- and temp.-sensitive shiny-black plates (pentane). Paramagnetic with 2 unpaired electrons.

Fischer, E.O. *et al*, *Z. Naturforsch., B*, 1962, **17**, 483 (*synth, uv, ir*)Weber, S.R. *et al*, *J. Organomet. Chem.*, 1977, **127**, 45 (*synth, props*)

Fe-01855

C₂₄H₃₆Fe[⊕]**Bis[(1,2,3,4,5,6-η)-hexamethylbenzene]iron(1+), 9Cl**

M 380.395 (ion)

Paramagnetic 19-electron complex. μ_{eff} = 1.89 B.M.

Hexafluorophosphate: [53382-61-9].

Fe-01856

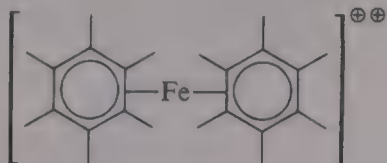
Having problems with locating a
 compound? Have you checked the
 indexes?

C₂₄H₃₆F₆FeP M 525.360

Dark-violet cryst.

Fischer, E.O. *et al*, *Z. Naturforsch., B*, 1962, **17**, 483 (*synth*, *ir*, *uv*)Anderson, S.E., *J. Organomet. Chem.*, 1974, **71**, 263 (*nmr*)C₂₄H₃₆Fe^{⊕⊕}

Fe-01857

Bis[(1,2,3,4,5,6- η)-hexamethylbenzene]iron(2+), 9Cl

M 380.395 (ion)

Bis(hexafluorophosphate): [53382-63-1].

C₂₄H₃₆F₁₂FeP₂ M 670.324

Orange-red solid.

Tsutsui, M. *et al*, *Naturwissenschaften*, 1957, **44**, 420 (*synth*)Fischer, E.O. *et al*, *Z. Naturforsch., B*, 1962, **17**, 483 (*synth*)Helling, J.F. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 7207 (*synth*)Morrison, W.H. *et al*, *Inorg. Chem.*, 1975, **14**, 500 (*uv*)Astruc, D. *et al*, *Tetrahedron*, 1976, **32**, 245 (*pmr*)C₂₄H₃₆Fe₂O₄

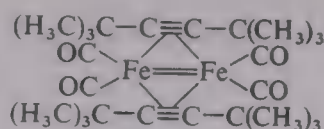
Fe-01858

Tetracarbonylbis[μ -(2,2,5,5-tetramethyl-3-hexyne)]diiron,

8Cl

Tetracarbonylbis(di-tert-butylacetylene)diiron

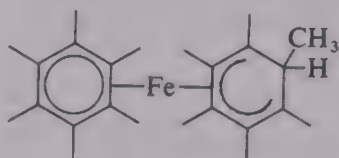
[34031-87-3]



M 500.240

Black-violet cryst. Bp_{0.1} 100° subl. Subl. in air at 175° without dec.Nicholas, K. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 608 (*synth*, *pmr*, *ir*, *ms*)Kubas, G. *et al*, *Inorg. Chem.*, 1973, **12**, 1797 (*raman*)C₂₄H₃₇Fe

Fe-01859

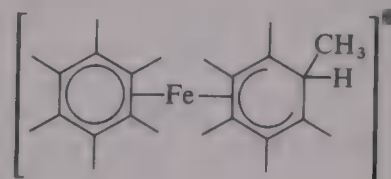
[(1,2,3,4,5,6- η)-Hexamethylbenzene]e[(1,2,3,4,5- η)-1,2,3,4,5,6-hexamethyl-2,4-cyclohexadien-1-yl]iron

M 381.403

19-electron complex. Thermally stable air-sensitive ivory-brown cryst. (pentane). Paramagnetic with 1 unpaired-electron.

Michaud, P. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 3755 (*synth*, *uv*, *mössbauer*)C₂₄H₃₇Fe[⊕]

Fe-01860

[(1,2,3,4,5,6- η)-Hexamethylbenzene]e[(1,2,3,4,5,6- η)-1,2,3,4,5,6-hexamethyl-2,4-cyclohexadien-1-yl]iron(1+)

M 381.403 (ion)

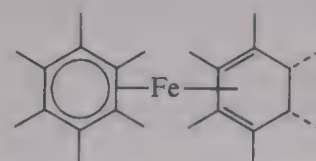
Hexafluorophosphate:

C₂₄H₃₇F₆FeP M 526.367

Thermally stable air-sensitive dark-red substance.

Michaud, P. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 3755 (*synth*, *pmr*, *cmr*, *mössbauer*, *polarog*)C₂₄H₃₈Fe

Fe-01861

[(1,2,3,4,5,6- η)-1,2,3,4,5,6-Hexamethylbenzene]e[(1,2,3,4- η)-1,2,3,4,5,6-hexamethyl-1,3-cyclohexadiene]iron

M 382.411

Orange solid.

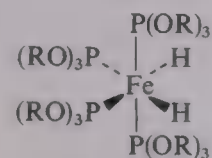
Michaud, P. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 3755 (*synth*, *pmr*, *cmr*, *mössbauer*)C₂₄H₆₂FeO₁₂P₄

Fe-01862

Dihydrotetrakis(triethyl phosphite-*P*)iron

Dihydrotetrakis(phosphorous acid)iron dodecaethyl ester, 8Cl

[34503-40-7]



R = Et

M 722.489

Stereochemically nonrigid. Air-sensitive in soln.

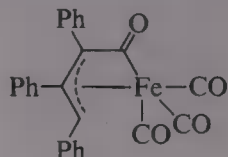
cis-form [28755-87-5]

Pale-yellow needles (MeOH). Mp >180° dec.

Kruse, W. *et al*, *J. Chem. Soc., Chem. Commun.*, 1968, 921 (*synth*, *pmr*, *nmr*)Meakin, P. *et al*, *J. Am. Chem. Soc.*, 1971, **93**, 4701 (*pmr*, *nmr*)Gerlach, D.H. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 4545 (*synth*)Meakin, P. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 75 (*pmr*, *nmr*)

C₂₅H₁₆FeO₄

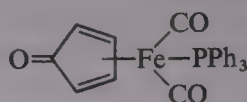
Fe-01863

Tricarbonyl[(1,2,3,4- η)-2,3,4-triphenyl-1,3-butadien-1-one]iron, 10ClTricarbonyl(η^3 : η^1 -1,2,3-diphenylallylcarbonyl)iron
[68148-17-4]

M 436.246

Yellow cryst. (Et₂O/hexane). Mp 142-4° dec.Dettaff, G. *et al*, *Chem. Ber.*, 1978, **111**, 3019 (*synth*, *pmr*, *ir*, *struct*)C₂₅H₁₉FeO₃P

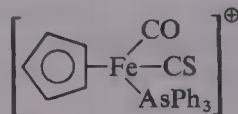
Fe-01864

Dicarbonyl[(2,3,4,5- η)-2,4-cyclopentadien-1-one](triphenylphosphine)iron

M 454.244

Bright-yellow prisms (C₆H₆/pet. ether).Weiss, E. *et al*, *Chem. Ber.*, 1962, **95**, 1170 (*synth*)C₂₅H₂₀AsFeOS[⊕]

Fe-01865

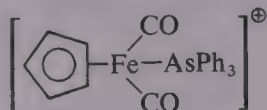
(Carbonothioyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenylarsine)iron(1+), 9ClCarbonyl- π -cyclopentadienyl(thiocarbonyl)(triphenylarsine)iron(1+). (η^5 -Cyclopentadienyl)carbonyl(thiocarbonyl)(triphenylarsine)iron(1+)

M 499.261 (ion)

Hexafluorophosphate: [61113-65-3].

C₂₅H₂₀AsF₆FeOPS M 644.225Yellow cryst. (CH₂Cl₂/Et₂O).Busetto, L. *et al*, *Inorg. Chim. Acta*, 1976, **19**, 233 (*synth*, *ir*, *pmr*)C₂₅H₂₀AsFeO₂[⊕]

Fe-01866

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenylarsine)iron(1+), 9Cl(η^5 -Cyclopentadienyl)dicarbonyl(triphenylarsine)iron(1+)

M 483.200 (ion)

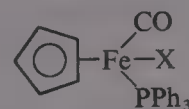
Hexafluorophosphate:

C₂₅H₂₀AsF₆FeO₂P M 628.165Yellow cryst. (CH₂Cl₂/Et₂O).Davison, A. *et al*, *J. Chem. Soc.*, 1961, 3172 (*synth*, *ir*)
Williams, W.E. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1329 (*synth*)Tripathi, S.C. *et al*, *Transition Met. Chem.*, 1976, **1**, 266 (*synth*)C₂₅H₂₀F₃FeOP

Fe-01867

Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(trifluoromethyl)(triphenylphosphine)iron(η^5 -Cyclopentadienyl)carbonyl(triphenylphosphine)(trifluoromethyl)iron. σ -Trifluoromethyl- π -cyclopentadienyliron carbonyl(triphenylphosphine)

[32760-51-3]

X = CF₃

M 480.248

Yellow solid. Mp 165-7°.

King, R.B. *et al*, *J. Organomet. Chem.*, 1969, **20**, 187 (*synth*, *ir*)Thomson, J. *et al*, *J. Organomet. Chem.*, 1972, **40**, 205 (*nmr*)Stanley, K. *et al*, *Can. J. Chem.*, 1974, **52**, 1781 (*pmr*, *nmr*, *ir*)C₂₅H₂₀FeGeO₂

Fe-01868

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)triphenylgermyliron, 9Cl(η^5 -Cyclopentadienyl)dicarbonyl(triphenylgermyl)iron. Cyclopentadienyl(dicarbonyliron)triphenylgermanium

[32824-70-7]

As Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trimethylgermyl)iron, Fe-00630 with

R = Ph

M 480.869

Pale-yellow solid. Mp 160-1°.

Ugo, R. *et al*, *Inorg. Chim. Acta*, 1967, **1**, 451 (*synth*, *pmr*, *ir*)Gansow, O.A. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 3406 (*cmr*, *ir*)Clark, H.C. *et al*, *J. Organomet. Chem.*, 1974, **74**, 29 (*ir*, *pmr*, *mössbauer*)Carre, F. *et al*, *J. Organomet. Chem.*, 1982, **229**, 257 (*synth*, *struct*)C₂₅H₂₀FeNOP

Fe-01869

Carbonyl(cyano-C(η^5 -2,4-Cyclopentadien-1-yl)(triphenylphosphine)iron, 9Cl(η^5 -Cyclopentadienyl)cyanocarbonyl(triphenylphosphine)iron. Cyclopentadienylcarbonyl(triphenylphosphine)iron cyanide. (η^5 -Cyclopentadienyl)-carbonylciano(triphenylphosphine)iron

[32757-48-5]

As Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trifluoromethyl)(triphenylphosphine)iron, Fe-01867 with

X = CN

M 437.260

Yellow air-stable cryst. Mp 228-30° (225° dec.). Dec. on standing in CHCl₃ soln.Angelici, R.J. *et al*, *J. Organomet. Chem.*, 1974, **67**, 287 (*synth*)Faller, J.W., *J. Organomet. Chem.*, 1975, **96**, 99 (*synth*, *pmr*, *cmr*)Reger, D.L., *Inorg. Chem.*, 1975, **14**, 660 (*synth*, *ir*, *ms*, *pmr*, *cmr*)C₂₅H₂₀FeNOPS

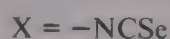
Fe-01870

Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(thiocyanato-N)(triphenylphosphine)iron, 9ClCyclopentadienylcarbonyl(triphenylphosphine)iron thiocyanate. (η^5 -Cyclopentadienyl)carbonyl(thiocyanato)-(triphenylphosphine)iron

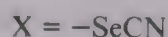
[61113-76-6]

As Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(trifluoromethyl)(triphenylphosphine)iron, Fe-01867 with

M 469.320

Red cryst. (CH₂Cl₂/hexane). Mp 164°.Busetto, L. *et al*, *Inorg. Chim. Acta*, 1976, **19**, 233 (*synth, ir*)**C₂₅H₂₀FeNOPSe****Fe-01871****Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(selenocyanato-*N*(triphenylphosphine)iron***Carbonyl- π -cyclopentadienyl(isoselenocyanato)(triphenylphosphine)iron. (η^5 -Cyclopentadienyl)carbonyl(isoselenocyanato)(triphenylphosphine)iron. Cyclopentadienylcarbonyl(triphenylphosphine)iron isoselenocyanate*As Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trifluoromethyl)(triphenylphosphine)iron, Fe-01867 with

M 516.220

Light red-brown cryst. (CH₂Cl₂/hexane). Mp 139-41° dec.Jennings, M.A. *et al*, *Inorg. Chim. Acta*, 1969, **3**, 335 (*synth, ir, pmr*)**C₂₅H₂₀FeNOPSe****Fe-01872****Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(selenocyanato-*Se*(triphenylphosphine)iron***(η^5 -Cyclopentadienyl)carbonyl(selenocyanato)(triphenylphosphine)iron. Cyclopentadienylcarbonyl(triphenylphosphine)iron selenocyanate*As Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trifluoromethyl)(triphenylphosphine)iron, Fe-01867 with

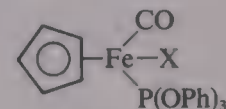
M 516.220

Dark red-brown cryst. (C₆H₆/hexane). Mp 147-9° dec.Jennings, M.A. *et al*, *Inorg. Chim. Acta*, 1969, **3**, 335 (*synth, ir, pmr*)**C₂₅H₂₀FeNO₂P****Fe-01873****Carbonyl(cyanato-*N*(η^5 -2,4-cyclopentadien-1-yl)(triphenylphosphine)iron, 9Cl***Carbonyl- π -cyclopentadienyl(isocyanato)(triphenylphosphine)iron, 8Cl. (η^5 -Cyclopentadienyl)carbonyl(isocyanato)(triphenylphosphine)iron. Cyclopentadienylcarbonyl(triphenylphosphine)iron isocyanate*

[32614-27-0]

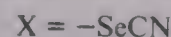
As Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trifluoromethyl)(triphenylphosphine)iron, Fe-01867 with

M 453.259

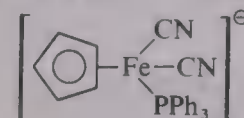
Red cryst. (CH₂Cl₂/hexane). Mp 131-2° dec.Graziani, M. *et al*, *J. Organomet. Chem.*, 1971, **26**, 261 (*synth, ir*)**C₂₅H₂₀FeNO₄P****Fe-01874****Carbonyl(cyano-*C*(η^5 -2,4-cyclopentadien-1-yl)(triphenylphosphite-*P*)iron***Carbonylcyno- π -cyclopentadienyl(phosphorous acid)-iron triphenyl ester, 8Cl. Cyclopentadienylcarbonyl(triphenyl phosphite)iron cyanide*

M 485.258

Yellow. Mp 185-9° dec.

Jennings, M.A. *et al*, *Inorg. Chim. Acta*, 1969, **3**, 335 (*synth, ir, pmr*)**C₂₅H₂₀FeNO₄PSe****Fe-01875****Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(selenocyanato-*Se*(triphenyl phosphite-*P*)iron***Carbonylcyclopentadienyl(triphenyl phosphite)iron selenocyanate*As Carbonyl(cyano-*C*(η^5 -2,4-cyclopentadien-1-yl)-(triphenyl phosphite-*P*)iron, Fe-01874 with

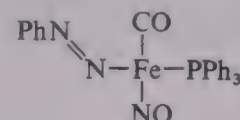
M 564.218

Dark orange-red cryst. (CH₂Cl₂/hexane). Mp 119-21° dec.Jennings, M.A. *et al*, *Inorg. Chim. Acta*, 1969, **3**, 335.**C₂₅H₂₀FeN₂P[⊖]****Fe-01876****Bis(cyano-*C*(η^5 -2,4-cyclopentadien-1-yl)(triphenylphosphine)ferrate(1-), 9Cl***Dicyano- π -cyclopentadienyl(triphenylphosphine)iron(1-). (η^5 -Cyclopentadienyl)dicyano(triphenylphosphine)iron(1-)*

M 435.267 (ion)

K salt: [53897-03-3].C₂₅H₂₀FeKN₂P M 474.365Small-orange needles + 1H₂O (CH₂Cl₂). Mp 160-2° dec.Reger, D.L., *Inorg. Chem.*, 1975, **14**, 660 (*synth, ir, pmr*)**C₂₅H₂₀FeN₃O₂P****Fe-01877****Carbonylnitrosyl(phenylazo)(triphenylphosphine)iron, 9Cl**

[41772-74-1]



M 481.273

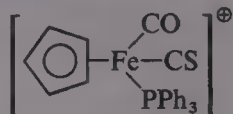
Brown cryst. Dec. in halogenated solvs.

Carroll, W.E. *et al*, *J. Organomet. Chem.*, 1973, **54**, C37 (*synth, ir*)

C₂₅H₂₀FeOPS[⊕]

Fe-01878

(Carbonothioyl)carbonyl(η⁵-2,4-cyclopentadien-1-yl)(triphenylphosphine)iron(1+), 9Cl
 Carbonyl-π-cyclopentadienyl(thiocarbonyl)(triphenylphosphine)iron(1+). (η⁵-Cyclopentadienyl)carbonyl(thiocarbonyl)(triphenylphosphine)iron(1+)



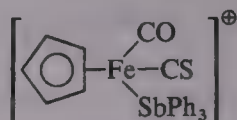
M 455.313 (ion)

Hexafluorophosphate: [61113-61-9].

C₂₅H₂₀F₆FeOP₂S M 600.277Yellow cryst. (Me₂CO/hexane).Busetto, L. *et al*, *Inorg. Chim. Acta*, 1976, **19**, 233 (synth, ir, pmr)C₂₅H₂₀FeOSSb[⊕]

Fe-01879

(Carbonothioyl)carbonyl(η⁵-2,4-cyclopentadien-1-yl)(triphenylstibine)iron(1+), 9Cl
 Carbonyl-π-cyclopentadienyl(thiocarbonyl)(triphenylstibine)iron(1+). (η⁵-Cyclopentadienyl)carbonyl(thiocarbonyl)(triphenylantimony)iron(1+)



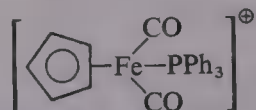
M 546.089 (ion)

Hexafluorophosphate: [61113-63-1].

C₂₅H₂₀F₆FeOPSSb M 691.054Yellow cryst. (Me₂CO/Et₂O).Busetto, L. *et al*, *Inorg. Chim. Acta*, 1976, **19**, 233 (synth, ir, pmr)C₂₅H₂₀FeO₂P[⊕]

Fe-01880

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(triphenylphosphine)iron(1+), 9Cl
 [32626-58-7]



M 439.253 (ion)

Chloride:

C₂₅H₂₀ClFeO₂P M 474.706Golden-yellow cryst. + 3H₂O (H₂O). Mp >120° dec.

Iodide:

C₂₅H₂₀FeIO₂P M 566.157

Yellow cryst. Mp 172°.

Tetrafluoroborate: [32614-25-8].

C₂₅H₂₀BF₄FeO₂P M 526.056

Yellow solid. Mp 259-60°.

Perchlorate:

C₂₅H₂₀ClFeO₆P M 538.703Yellow cryst. (Me₂CO aq.).

Hexafluorophosphate: [12100-39-9].

C₂₅H₂₀F₆FeO₂P₂ M 584.217

Pale-yellow. Mp 200°.

Davison, A. *et al*, *J. Chem. Soc.*, 1961, 3172 (synth)Treichel, P.M. *et al*, *Inorg. Chem.*, 1966, **5**, 1177 (synth, ir, pmr)Meyer, T.J. *et al*, *Inorg. Chem.*, 1971, **10**, 1673 (synth)Williams, W.E. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1329 (ir, synth, pmr)Pandey, V.N. *et al*, *Inorg. Chim. Acta*, 1977, **22**, L39 (synth)Reger, D.L. *et al*, *J. Organomet. Chem.*, 1977, **131**, 153 (synth)Johnson, B.V. *et al*, *Inorg. Chem.*, 1979, **18**, 1796 (synth, ir, mössbauer)Kuhlmann, E.J. *et al*, *Inorg. Chim. Acta*, 1973, **34**, 197 (synth)Schmidt, E. *et al*, *J. Organomet. Chem.*, 1981, **209**, 373 (synth)Riley, P.E. *et al*, *Organometallics*, 1983, **2**, 286 (struct, ir)C₂₅H₂₀FeO₂Pb

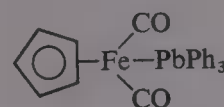
Fe-01881

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(triphenylplumbyl)iron, 9Cl

(π-Cyclopentadienyldicarbonyliron)triphenylplumbane.

(π-Cyclopentadienyldicarbonyliron)triphenyllead

[12132-08-0]



M 615.479

Brown cryst. Mp 130°.

Ugo, R. *et al*, *Inorg. Chim. Acta*, 1967, **1**, 451 (synth, pmr, ir)Carlton, L. *et al*, *J. Chem. Soc., Dalton Trans.*, 1982, 1483 (props)C₂₅H₂₀FeO₂Sb[⊕]

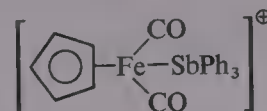
Fe-01882

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(triphenylstibine)iron(1+), 9Cl

Dicarbonyl-π-cyclopentadienyl(triphenylantimony)-

iron(1+). (η⁵-Cyclopentadienyl)-

dicarbonyl(triphenylstibine)iron(1+)



M 530.029 (ion)

Hexafluorophosphate: [49772-11-4].

C₂₅H₂₀F₆FeO₂PSb M 674.993

Yellow cryst.

Davison, A. *et al*, *J. Chem. Soc.*, 1961, 3172 (synth, ir)Williams, W.E. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1329 (synth)Cullen, W.R. *et al*, *Inorg. Chem.*, 1974, **13**, 649 (mössbauer)Tripathi, S.C. *et al*, *Transition Met. Chem.*, 1976, **1**, 266 (synth)McAuliffe, C.A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1977, 1901 (mössbauer)Cobbedick, R.E. *et al*, *Acta Crystallogr., Sect. B*, 1978, **34**, 1473 (cryst struct)C₂₅H₂₀FeO₂Si

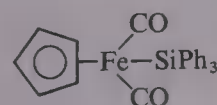
Fe-01883

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(triphenylsilyl)iron, 9Cl

(η⁵-Cyclopentadienyl)dicarbonyl(triphenylsilyl)iron.

(Cyclopentadienyldicarbonyliron)triphenylsilane

[36835-55-9]



M 436.364

Yellow cryst. Mp 164-165.5°.

Gansow, O.A. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 3406 (cmr, ir)Clark, H.C. *et al*, *J. Organomet. Chem.*, 1974, **74**, 29 (ir, pmr, mössbauer)Cerveau, G. *et al*, *J. Organomet. Chem.*, 1977, **135**, 373 (synth, ir, nmr)

Pannell, K.H. *et al*, *J. Organomet. Chem.*, 1980, **186**, 85 (mössbauer, ir)

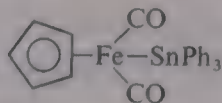
C₂₅H₂₀FeO₂Sn

Fe-01884

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(triphenylstannyl)iron, 8Cl

(η⁵-Cyclopentadienyl)dicarbonyl(triphenylstannyl)iron.
(Cyclopentadienyldicarbonyliron)triphenyltin

[12132-09-1]



M 526.969

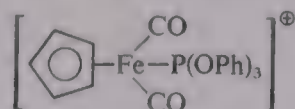
Yellow cryst. Mp 139.5-140°.

Bryan, R.F. *et al*, *J. Chem. Soc. (A)*, 1967, 192 (cryst struct)Ugo, R. *et al*, *Inorg. Chim. Acta*, 1967, **1**, 451 (synth, pmr, ir)Dickinson, R.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 424 (mössbauer)Reger, D.L. *et al*, *Synth. React. Inorg. Metal.-Org. Chem.*, 1977, **7**, 151 (synth)Spalding, T.R., *J. Organomet. Chem.*, 1978, **149**, 371 (ms)Gladysz, J.A. *et al*, *Inorg. Chem.*, 1979, **18**, 553 (synth)Willemen, H. *et al*, *Inorg. Chim. Acta*, 1979, **34**, 175 (pe)C₂₅H₂₀FeO₅P⁺

Fe-01885

Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(triphenyl phosphite-P)iron(1+)

Dicarbonyl-π-cyclopentadienyl(phosphorous acid)-iron(1+) triphenyl ester, 8Cl



M 487.251 (ion)

Tetrafluoroborate:

C₂₅H₂₀BF₄FeO₅P M 574.054

Cryst. Mp 139°.

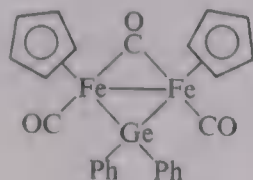
Tetraphenylborate:

C₄₉H₄₀BFeO₅P M 806.483Yellow cryst. (Me₂CO aq.).Haines, R.J. *et al*, *Inorg. Chem.*, 1969, **8**, 1459; *J. Organomet. Chem.*, 1971, **28**, 405 (synth, ir, pmr)Green, M. *et al*, *J. Chem. Soc. (A)*, 1971, 367 (synth)Reimann, R.H. *et al*, *J. Organomet. Chem.*, 1971, **32**, C44 (synth, ir)C₂₅H₂₀Fe₂GeO₃

Fe-01886

μ-Carbonyldicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)[μ-(diphenylgermylene)diiron

μ-Carbonyldicarbonyldi-π-cyclopentadienyl[μ-(diphenylgermylene)]diiron, 8Cl. Tricarbonylbis(η⁵-cyclopentadienyl)(diphenylgermylene)diiron



M 552.715

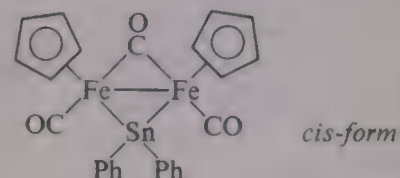
Violet air-stable cryst. Mixt. of isomers.

Cleland, A.J. *et al*, *J. Organomet. Chem.*, 1971, **32**, C15 (synth, ir, pmr, ms)C₂₅H₂₀Fe₂O₃Sn

Fe-01887

μ-Carbonyldicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)[μ-(diphenylstannylene)]diiron

μ-Carbonyldicarbonyldi-π-cyclopentadienyl[μ-(diphenylstannylene)]diiron, 8Cl. Tricarbonylbis(η⁵-cyclopentadienyl)(diphenylstannylene)diiron



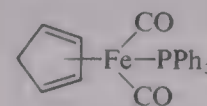
M 598.815

Mixt. of isomers. Unstable; characterised spectroscopically.

Cleland, A.J. *et al*, *J. Organomet. Chem.*, 1971, **32**, C15 (synth, ir)C₂₅H₂₁FeO₂P

Fe-01888

Dicarbonyl[(1,2,3,4-η)-1,3-cyclopentadiene](triphenylphosphine)iron



M 440.260

Golden-yellow cryst. (pet. ether). Mp 113-4° dec.

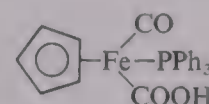
Davison, A. *et al*, *J. Chem. Soc.*, 1961, 3172 (synth, ir, pmr)C₂₅H₂₁FeO₃P

Fe-01889

Carbonylcarboxyl(η⁵-2,4-cyclopentadien-1-yl)(triphenylphosphine)ferrate(1-)

Carbonyl(carboxylato)(η⁵-2,4-cyclopentadien-1-yl)(triphenylphosphine)ferrate(1-) hydrogen compd., 10Cl

[70196-11-1]



M 456.260

Yellow microcryst. Mp 130° dec. Amphoteric system, behaviour toward acids and bases, involving C-O or O-H bond cleavage, depending upon conditions.

K salt: [70196-12-2].

C₂₅H₂₀FeKO₃P M 494.350

Yellow microcryst.

Me ester: [70196-14-4]. Carbonyl(η⁵-2,4-cyclopentadien-1-yl)(methoxycarbonyl)(triphenylphosphine)iron, 10Cl.

C₂₆H₂₃FeO₃P M 470.287

Yellow cryst. Mp 90° dec.

Menthyl ester: [32005-37-1].

C₃₅H₃₉FeO₃P M 594.512

Yellow-orange solid. Mp 120° dec. [α]_D²⁰ -120° (c, 0.01 in C₆H₆).

Brunner, H. *et al*, *J. Organomet. Chem.*, 1973, **50**, 219 (derivs)Grice, N. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 1627 (synth, ir, pmr)

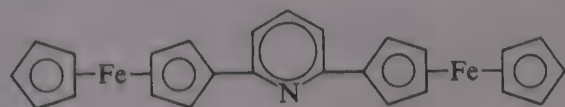
C₂₅H₂₁Fe₂N

Fe-01890

2,6-Diferrocenylpyridine

1,1''-(2,6-Pyridinediyl)bisferrocene, 9Cl

[39334-07-1]

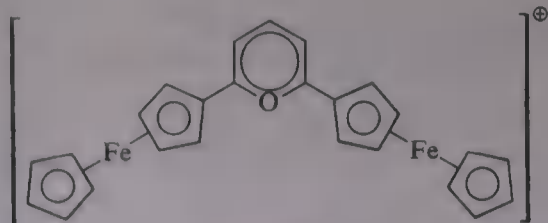


M 447.142

Orange cryst. (CHCl₃). Mp 149-51°.Dorofeenko, G.N. *et al*, *Zh. Org. Khim.*, 1972, 8, 2620; *CA*, 78, 97785 (*synth*, *ir*, *pmr*)C₂₅H₂₁Fe₂O⁺

Fe-01891

2,6-Diferrocenylpyrylium(1+), 9Cl



M 449.134 (ion)

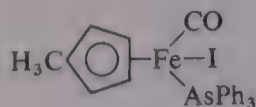
Perchlorate: [39334-08-2].

C₂₅H₂₁ClFe₂O₅ M 548.585Dark-green cryst. (Me₂CO/AcOH/Et₂O). Dec. >150°.Dorofeenko, G.N. *et al*, *Zh. Org. Khim.*, 1972, 8, 2620; *CA*, 78, 97785 (*synth*, *ir*)C₂₅H₂₂AsFeIO

Fe-01892

Carbonyliodo[(1,2,3,4,5-η)-1-methyl-2,4-cyclopentadien-1-yl](triphenylarsine)iron

[32005-39-3]



M 596.121

Mp 94° dec.

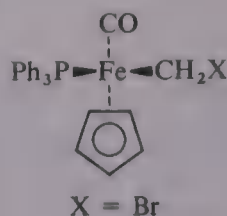
Brown, D.A. *et al*, *Inorg. Chim. Acta*, 1970, 4, 428 (*synth*, *ir*)C₂₅H₂₂BrFeOP

Fe-01893

(Bromomethyl)carbonyl(η⁵-2,4-cyclopentadien-1-yl)(triphenylphosphine)iron, 9Cl

σ-Bromomethyl-π-cyclopentadienyliron(triphenylphosphine) carbonyl. (η¹-Bromomethyl)(η⁵-cyclopentadienyl)carbonyl(triphenylphosphine)iron. (η⁵-Cyclopentadienyl)(bromomethyl)carbonyl(triphenylphosphine)iron

[59349-64-3]



(±)-form

X = Br

M 505.173

Methylene transfer reagent.

(±)-form [59433-06-6]

Orange cryst. (hexane). Mp 129° dec. [α]_D²⁵ +280° (c, 0.1 in EtOAc). Chirality (R) acc. to Stanley and Baird convention.

(±)-form

Orange cryst. (hexane). Mp 124-8°.

Flood, T.C. *et al*, *Inorg. Chem.*, 1976, 15, 1910 (*synth*, *ir*, *pmr*, *abs config*)C₂₅H₂₂BrFeO₄P

Fe-01894

Bromocarbonyl[(1,2,3,4,5-η)-1-methyl-2,4-cyclopentadien-1-yl](triphenyl phosphite-P)iron

Bromocarbonyl(methyl-π-cyclopentadienyl)(phosphorous acid)iron triphenyl ester, 8Cl

[32007-89-9]

As Carbonylchloro[(1,2,3,4,5-η)-1-methyl-2,4-cyclopentadien-1-yl](trimethyl phosphite)iron, Fe-00640 with

X = Br, R = OPh

M 553.171

Green cryst. (heptane). Mp 108-12° dec.

Brown, D.A. *et al*, *Inorg. Chim. Acta*, 1969, 3, 346; 1970, 4, 428 (*synth*, *ir*)C₂₅H₂₂ClFeOP

Fe-01895

Carbonyl(chloromethyl)(η⁵-2,4-cyclopentadien-1-yl)(triphenylphosphine)iron, 9Cl

(η⁵-Cyclopentadienyl)carbonyl(chloromethyl)(triphenylphosphine)iron. σ-Chloromethyl-π-cyclopentadienyl-carbonyl(triphenylphosphine)iron

[53521-54-3]

As (Bromomethyl)carbonyl(η⁵-2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01893 with

X = Cl

M 460.722

Methylene transfer reagent and source of chiral RCH₂ iron complexes.

(±)-form [56907-95-0]

Orange cryst. Mp 115° dec. [α]_D²⁵ +383° (c, 0.1 in C₆H₆). Chirality (R)-acc. to Stanley and Baird convention.

(±)-form [56907-96-1]

Orange cryst. Mp 115° dec. [α]_D²⁵ -380° (c, 0.1 in C₆H₆). Chirality (S)-acc. to Stanley and Baird.

(±)-form

Orange cryst. Mp 123-4°.

Davison, A. *et al*, *J. Organomet. Chem.*, 1974, 74, C17.Flood, T.C. *et al*, *Inorg. Chem.*, 1976, 15, 1910 (*synth*, *ir*, *pmr*)C₂₅H₂₂ClFeO₄P

Fe-01896

Carbonylchloro(η⁵-2,4-cyclopentadien-1-yl)(triphenyl phosphite-P)iron

Carbonylchloro(methyl-π-cyclopentadienyl)(phosphorous acid)iron triphenyl ester, 8Cl. (η⁵-Methylcyclopentadienyl)carbonylchloro(triphenyl phosphite)iron chloride

[32054-65-2]

As Carbonylchloro[(1,2,3,4,5-η)-1-methyl-2,4-cyclopentadien-1-yl](trimethyl phosphite)iron, Fe-00640 with

X = Cl, R = OPh

M 508.720

Mp 102-4°.

Brown, D.A. *et al*, *Inorg. Chim. Acta*, 1970, 4, 428 (*synth*, *ir*)

C₂₅H₂₂FeIOP

Fe-01897

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)(iodomethyl)(triphenylphosphine)iron

σ-Iodomethyl-π-cyclopentadienyliron(triphenylphosphine) carbonyl. (η¹-Iodomethyl)(η⁵-cyclopentadienyl)-carbonyl(triphenylphosphine)iron. (η⁵-Cyclopentadienyl)carbonyl(iodomethyl)(triphenylphosphine)iron [53521-56-5]

As (Bromomethyl)carbonyl(η⁵-2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01893 with



M 552.173

(S)-form

Thermally unstable red compd. $[\theta]_{450} \sim +10000$. (S)-Chirality specified acc. to Stanley-Baird convention.

Davison, A. *et al*, *J. Organomet. Chem.*, 1974, **72**, C7 (synth, cd)

Flood, T.C. *et al*, *Inorg. Chem.*, 1976, **15**, 1910 (synth)

C₂₅H₂₂FeIOP

Fe-01898

Carbonyliodo[(1,2,3,4,5-η)-1-methyl-2,4-cyclopentadien-1-yl](triphenylphosphine)iron, 10Cl

[32054-66-3]

As Carbonylchloro[(1,2,3,4,5-η)-1-methyl-2,4-cyclopentadien-1-yl](trimethyl phosphite)iron, Fe-00640 with



M 552.173

Green cryst. (CH₂Cl₂/hexane). Mp 114-5°, 146°.

Brown, D.A. *et al*, *Inorg. Chim. Acta*, 1970, **4**, 428 (synth, ir)

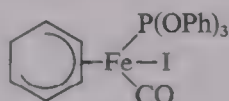
Haines, B.W. *et al*, *Inorg. Chem.*, 1981, **20**, 650 (synth, ir, pmr)

C₂₅H₂₂FeIO₄P

Fe-01899

Carbonyl[(1,2,3,4,5-η)-2,4-cyclohexadien-1-yl]iodo(triphenyl phosphite-P)iron, 10Cl

[64514-85-8]



M 600.172

No phys. props. reported.

Brown, D.A. *et al*, *Inorg. Chim. Acta*, 1977, **24**, 71 (synth, ir)

C₂₅H₂₂FeIO₄P

Fe-01900

Carbonyliodo[(1,2,3,4,5-η)-1-methyl-2,4-cyclopentadien-1-yl](triphenyl phosphite)iron

Carbonyliodo(methyl-π-cyclopentadienyl)(phosphorous acid)iron triphenyl ester, 8Cl

[32010-96-1]

As Carbonylchloro[(1,2,3,4,5-η)-1-methyl-2,4-cyclopentadien-1-yl](trimethyl phosphite)iron, Fe-00640 with



M 600.172

Green cryst. (heptane). Mp 102-3°.

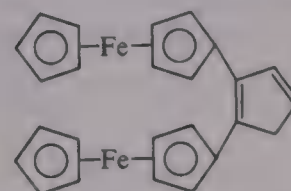
Brown, D.A. *et al*, *Inorg. Chim. Acta*, 1969, **3**, 346; 1970, **4**, 428 (synth, ir)

C₂₅H₂₂Fe₂

Fe-01901

1,2-Diferrocenyl-1,3-cyclopentadiene

1,1''-(1,3-Cyclopentadiene-1,2-diyl)bisferrocene, 9Cl [12504-84-6]



M 434.143

Orange oil.

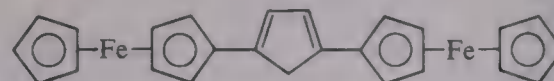
Goldberg, S. *et al*, *J. Org. Chem.*, 1971, **36**, 1499 (synth, ir, pmr, ms)

C₂₅H₂₂Fe₂

Fe-01902

1,4-Diferrocenyl-1,3-cyclopentadiene

1,1''-(1,3-Cyclopentadiene-1,4-diyl)bisferrocene



M 434.143

Yellow plates (C₆H₆). Mp 231-2°.

Neuse, E.W. *et al*, *J. Organomet. Chem.*, 1972, **43**, 385 (synth, pmr, uv)

C₂₅H₂₃FeOP

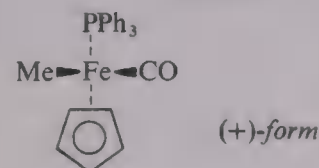
Fe-01903

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)methyl(triphenylphosphine)iron, 9Cl

(η⁵-Cyclopentadienyl)carbonylmethyl(triphenylphosphine)iron.

σ-Methyl-π-cyclopentadienylcarbonyl(triphenylphosphine)iron

[12100-51-5]



M 426.277

(+)-form [56907-97-2]

Orange cryst. (hexane). Mp 173-4°. $[\alpha]_D^{25} +91^\circ$ (c, 0.11 in CH₂Cl₂), $+100^\circ$ (c, 0.02 in C₆H₆). This is the (R)-form acc. to the sequencing rules applied by Davidson *et al* but the (S)-form acc. to the Stanley and Baird convention.

(±)-form

Orange cryst. (CH₂Cl₂/pet. ether). Mp 152°.

Treichel, P.M. *et al*, *Inorg. Chem.*, 1966, **5**, 1177 (synth, ir, pmr)

Davidson, A. *et al*, *J. Organomet. Chem.*, 1974, **74**, C17.

Flood, T.C. *et al*, *Inorg. Chem.*, 1976, **15**, 1910 (synth, pmr, ir, abs config)

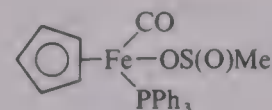
C₂₅H₂₃FeO₃PS

Fe-01904

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)(methanesulfinato-O)-(triphenylphosphine)iron, 9Cl

Carbonyl(η⁵-cyclopentadienyl)(O-methylsulfonyl)(triphenylphosphine)iron. (η⁵-Cyclopentadienyl)carbonyl-(methyl-O-sulfinato)(triphenylphosphine)iron

[51552-96-6]



M 490.336

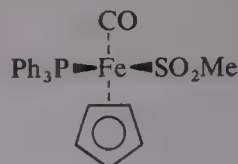
(±)-form

Red oil, characterised spectroscopically. Sol. SO₂. *ir* ν_{CO} 2061, 2012 cm⁻¹. In soln. isomerises to Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(methylsulfonyl)(triphenylphosphine)iron, Fe-01905.

Jacobson, S.E. *et al*, *Inorg. Chem.*, 1973, **12**, 717 (*synth*, *ir*, *pmr*)
Flood, T.C. *et al*, *Inorg. Chem.*, 1976, **15**, 1910.

C₂₅H₂₃FeO₃PS Fe-01905

Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(methylsulfonyl)(triphenylphosphine)iron, 9Cl
(η^5 -Cyclopentadienyl)carbonyl(methyl-S-sulfinato)(triphenylphosphine)iron
[31811-87-7]

**(-)-form**

M 490.336

Forms 1:1 adducts with Lewis acids such as BF₃.**(+)-form** [59367-40-7][α]_D²⁵ +166° (c, 0.1 in CH₂Cl₂) (88% optical purity).**(-)-form** [59367-39-4][α]_D²⁵ -196° (c, 0.1 in CH₂Cl₂). Referred to as the (*R*)-form but according to Stanley and Baird convention, is (*S*)-.**(±)-form**Orange cryst. (CHCl₃/pentane). Mp 158°.Graziani, M. *et al*, *Inorg. Chim. Acta*, 1970, **4**, 347 (*synth*, *ir*, *pmr*)Jacobson, S.E. *et al*, *Inorg. Chem.*, 1973, **12**, 717 (*synth*)Flood, T.C. *et al*, *Inorg. Chem.*, 1976, **15**, 1910 (*abs confg*)**C₂₅H₂₃FeO₄P Fe-01906**

Carbonyl(η^5 -2,4-cyclopentadien-1-yl)methyl(triphenyl phosphite-P)iron, 9Cl
Carbonyl- π -cyclopentadienylmethyl(phosphorous acid)-iron triphenyl ester, 8Cl. σ -Methyl- π -cyclopentadienyl-carbonyl(triphenyl phosphite)iron
[12290-98-1]

As Carbonyl(cyano-C)(η^5 -2,4-cyclopentadien-1-yl)-(triphenyl phosphite-P)iron, Fe-01874 with

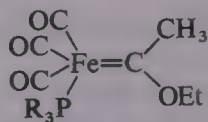
X = Me

M 474.275

Yellow cryst. Mp 107.5-109° (106°).

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1967, 2075 (*synth*)Su, S.R. *et al*, *J. Organomet. Chem.*, 1971, **27**, 231 (*synth*, *ir*, *pmr*)**C₂₅H₂₃FeO₄P Fe-01907**

Tricarbonyl(1-ethoxyethylidene)(triphenylphosphine)iron, 9Cl
[42947-54-6]



R = Ph

M 474.275

Cryst. (hexane at -78°). Dec. at 90°.

Darensbourg, D.J. *et al*, *Inorg. Chem.*, 1974, **13**, 374.Conder, H.L. *et al*, *Inorg. Chem.*, 1974, **13**, 506 (*synth*, *ir*)**C₂₅H₂₃FeO₇P Fe-01908**

Tricarbonyl(1-ethoxyethylidene)(triphenyl phosphite-P)iron, 9Cl
[42947-55-7]

As Tricarbonyl(1-ethoxyethylidene)(triphenylphosphine)-iron, Fe-01907 with

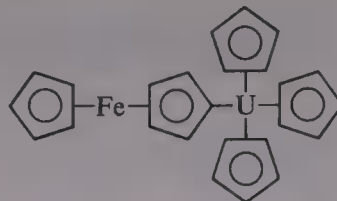
R = OPh

M 522.273

Characterised spectroscopically.

Darensbourg, D.J. *et al*, *Inorg. Chem.*, 1974, **13**, 374.Conder, H.L. *et al*, *Inorg. Chem.*, 1974, **13**, 506 (*synth*, *ir*)**C₂₅H₂₄FeU Fe-01909**

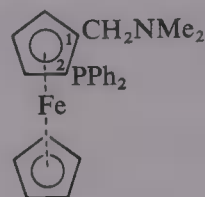
Tris(η^5 -2,4-cyclopentadien-1-yl)ferrocenyluranium, 9Cl
[52827-36-8]



M 618.341

Brown solid (hexane); stable under Ar, but sensitive to O₂ and H₂O. Sl. sol. hydrocarbons. Mp >190° dec. Bp 180° *in vacuo* subl.Tsutsui, M. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 3650.Tsutsui, M. *et al*, *Inorg. Chem.*, 1975, **14**, 78 (*synth*, *pmr*, *ir*)**C₂₅H₂₆FeNP Fe-01910**

1-[(Dimethylamino)methyl]-2-(diphenylphosphino)ferrocene, 9Cl
Kumada's ligand

**(1R)-form**

M 427.308

(1R)-form [61116-64-1]NiCl₂ complex is chiral reagent for Grignard coupling with vinylic bromides. Mp 91.5°. [α]_D²⁵ -323° (c, 0.42 in CHCl₃).**(±)-form** [33085-32-4]

Yellow needles (pet. ether). Mp 99-100°.

Marr, G. *et al*, *J. Chem. Soc. (C)*, 1969, 1070 (*synth*, *pmr*)Hayashi, T. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 3719 (*synth*)Tamao, K. *et al*, *Tetrahedron Lett.*, 1979, 7155 (*use*)Sokolov, V.I. *et al*, *J. Organomet. Chem.*, 1980, **202**, C58 (*synth*)**C₂₅H₂₆FeO₂Sm Fe-01911**

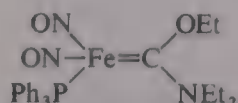
[μ -(Carbonyl-C,O)]tris[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl][dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron]-samarium

[(C₅H₅)Fe(CO)₂](H₃CC₅H₄)₃Sm

M 564.686

Red solid. Sol. CH₂Cl₂, THF. Destroyed by air and moisture. Unstable above 120° at 10⁻¹ mm. Cannot be subl.Crease, A.E. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1501 (*synth*, *ir*)C₂₅H₃₀FeN₃O₃P

Fe-01912

[(Diethylamino)ethoxymethylene]dinitrosyl(triphenylphosphine)iron, κ^1
[35916-45-1]

M 507.351

Red-brown amorph. powder. Dec. > -35°.

Fischer, E.O. *et al*, *Chem. Ber.*, 1972, **105**, 588 (*synth*, *ir*, *pmr*, *ms*)C₂₅H₃₆FeO

Fe-01913

[15]Ferrocenophan-8-one

1,1'-(8-Oxo-1,15-pentadecanediyl)ferrocene, κ^1

[56732-47-9]



M 408.406

Yellow-orange cryst. (hexane). Mp 53-6°. Exhibits fluxional cmr spectrum.

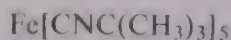
Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1975, **92**, 341 (*synth*, *ir*, *pmr*, *cmr*, *ms*)C₂₅H₄₅FeN₅

Fe-01914

Pentakis(2-isocyano-2-methylpropane)iron, κ^1

Pentakis(tert-butyl isocyanide)iron

[66415-98-3]



M 471.511

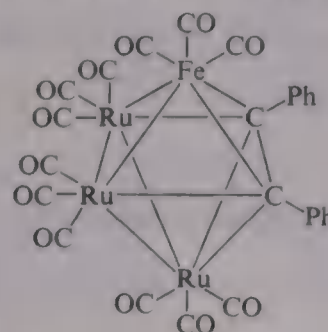
Bright-yellow air-sensitive cryst. (pet. ether/Et₂O).Bassett, J.-M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1977, 256, 853.Bassett, J.-M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1979, 1003 (*struct*, *pmr*, *cmr*, *synth*, *ir*, *ms*)C₂₆H₁₀FeO₁₂Ru₃

Fe-01915

Nonacarbonyl[μ_4 -(1- η :1,2- η :1,2- η :2- η)-1,2-diphenyl-

1,2-ethenediyl](tricarbonyliron)triruthenium

Dodecacarbonyl(diphenylacetylene)irontriruthenium



axial-form

M 873.415

axial-form [78248-93-8]

Black prismatic cryst. (hexane). Brown in soln.

equatorial-form [78248-94-9]

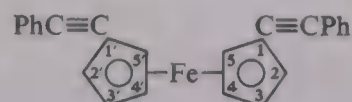
Black prismatic cryst. (hexane). Red-brown in soln. This isomer has the iron atom in the equatorial position.

Fox, J.R. *et al*, *Inorg. Chem.*, 1981, **20**, 3230 (*synth*, *cryst struct*, *ms*, *ir*, *pmr*)C₂₆H₁₈Fe

Fe-01916

1,1'-Bis(phenylethynyl)ferrocene, κ^1 Bis[(phenylethynyl)- π -cyclopentadienyl]iron

[12100-65-1]



M 386.275

Orange cryst. (pet. ether). Mp 174-175.5°.

Rausch, M.D. *et al*, *J. Org. Chem.*, 1966, **31**, 2703 (*synth*, *pmr*)Rosenblum, M. *et al*, *J. Organomet. Chem.*, 1966, **6**, 173 (*synth*, *uv*, *pmr*)C₂₆H₂₀B₂Fe₂O₄

Fe-01917

Di- μ -carbonyldicarbonylbis[(1,2,3,4,5,6- η)-1-phenylboratabenzene]diiron, κ^1 Di- μ -carbonyldicarbonylbis(1-phenylborinato)diiron

[54853-77-9]

As Di-

 μ -carbonylbis[(1,2,3,4,5,6- η)-1-methylboratabenzene]diiron
Fe-01417 with

R = Ph

M 529.756

Violet, air-stable leaflets (pentane). Dec. at 150°, subl. at 120° *in vacuo*.Herberich, G. *et al*, *Chem. Ber.*, 1974, **107**, 3780 (*synth*, *pmr*, *ms*, *ir*)C₂₆H₂₀F₃FeO₂P

Fe-01918

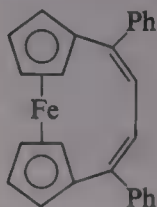
Carbonyl- π -cyclopentadienyl(trifluoroacetyl)(triphenylphosphine)iron, κ^1 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(trifluoroethanoyl)(triphenylphosphine)ironAs Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trifluoromethyl)(triphenylphosphine)iron, Fe-01867 withX = -COCF₃

M 508.259

Yellow solid. Mp 180-1° dec.

King, R.B. *et al*, *J. Organomet. Chem.*, 1969, **20**, 187 (*synth*, *ir*)C₂₆H₂₀Fe

Fe-01919

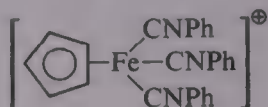
1,4-Diphenyl[4]ferrocenophane-1,3-diene*1,1'-(1,4-Diphenyl-1,3-butadiene-1,4-diyl)ferrocene*, 9Cl
[42790-03-4]

M 388.291

Mp 220.5-221.5°.

Hisatome, M. *et al*, *J. Organomet. Chem.*, 1973, **55**, C82 (*synth*, *pmr*)C₂₆H₂₀FeN₃⁺

Fe-01920

(η⁵-2,4-Cyclopentadien-1-yl)tris(isocyanobenzene)iron(1+), 9Cl*π-Cyclopentadienyltris(phenyl isocyanide)iron(1+)*

M 430.311 (ion)

Hexafluorophosphate: [55451-28-0].C₂₆H₂₀F₆FeN₃P M 575.275

No phys. props. reported.

Chloride:C₂₆H₂₀ClFeN₃ M 465.764

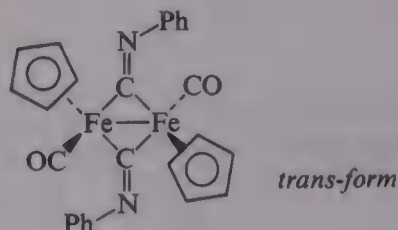
Orange cryst. Mp 174°.

Joshi, K.K. *et al*, *J. Organomet. Chem.*, 1963, **1**, 51 (*synth*, *ir*)Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1975, **86**, C13 (*synth*)C₂₆H₂₀Fe₂N₂O₂

Fe-01921

Dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)bis[μ-(phenylcar-bonimidoyl)]diiron, 10Cl

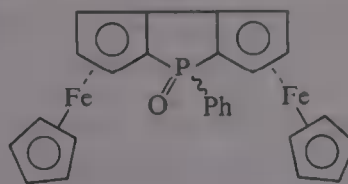
[63044-94-0]



M 504.150

Deep-violet cryst. Mp 169° dec. In soln. exists as a *cis*-Cp (59%): *trans*-Cp (41%) mixt.Howell, J.A.S. *et al*, *J. Organomet. Chem.*, 1977, **128**, C29 (*synth*, *ir*, *struct*)Hunt, I.D. *et al*, *Acta Crystallogr., Sect. B*, 1977, **33**, 2432 (*struct*)Fehlhammer, W.P. *et al*, *J. Organomet. Chem.*, 1980, **199**, 87 (*synth*, *ir*, *pmr*)Ennis, M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 1251 (*ir*)C₂₆H₂₁Fe₂OP

Fe-01922

Bis(η⁵-2,4-cyclopentadien-1-yl)[μ-[(1,2,3,3a,7b-η:4a,5,6,7,7a-η)-4,4a-dihydro-4-phenyl-1H-dicyclopenta[b,d]phosphole-1,4a-diyl]]diiron P-oxide, 9Cl

M 492.119

2 Isomers known, differing in orientation of Ph relative to the two iron atoms.

Low-melting-form [54083-18-0]

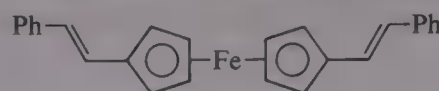
Solid. Mp 235°.

High-melting-form [54060-27-4]

Solid. Mp 265°.

Eberhard, L. *et al*, *J. Organomet. Chem.*, 1974, **80**, 109 (*synth*, *pmr*)C₂₆H₂₂Fe

Fe-01923

1,1'-Bis(2-phenylethenyl)ferrocene, 9Cl*1,1'-Distyrenylferrocene*. *1,1'-Distyrylferrocene*

M 390.307

(E,E)-formRed-brown cryst. (C₆H₆). Mp 168-70°.Sonogashira, K. *et al*, *Kogyo Kagaku Zasshi*, 1963, **66**, 1090 (*synth*, *uv*)Kasahara, A. *et al*, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 895; 1977, **50**, 1021 (*synth*, *ir*)C₂₆H₂₂FeNOP

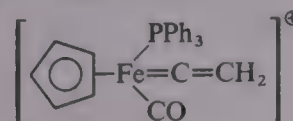
Fe-01924

Carbonyl(cyanomethyl)(η⁵-2,4-cyclopentadien-1-yl)(triphenylphosphine)iron, 9Cl*σ-Cyanomethyl-π-cyclopentadienylcarbonyl(triphenylphosphine)iron*. (η¹-Cyanomethyl)(η⁵-cyclopentadienyl)-carbonyl(triphenylphosphine)iron. (η⁵-Cyclopentadienyl)carbonyl(cyanomethyl)(triphenylphosphine)iron [53897-01-1]As Bromocarbonyl(η⁵-2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01822 withX = -CH₂CN

M 451.287

(±)-formRed cryst. (C₆H₆/hexane). Mp 170-2° (164-5°).Reger, D.L., *Inorg. Chem.*, 1975, **14**, 660 (*synth*, *ir*, *pmr*, *cmr*)Flood, T.C. *et al*, *Inorg. Chem.*, 1976, **15**, 1910 (*synth*)C₂₆H₂₂FeOP⁺

Fe-01925

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)ethenylidene(triphenylphosphine)iron(1+), 10Cl

M 437.280 (ion)

Characterised spectroscopically in soln. only.

Trifluoromethanesulfonate: [71163-59-2].

C₂₇H₂₂F₃FeO₄PS M 586.344

No phys. props. reported.

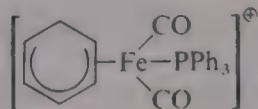
Boland, B.E. *et al*, *J. Organomet. Chem.*, 1979, **172**, C29 (*synth*, *ir*, *pmr*)

Boland-Lussier, B.E. *et al*, *Organometallics*, 1982, **1**, 635 (*synth*, *ir*, *pmr*)

C₂₆H₂₂FeO₂P[⊕]

Fe-01926

Dicarbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl](triphenylphosphine)iron(1⁺), 8Cl



M 453.279 (ion)

Tetrafluoroborate: [33678-04-5].

C₂₆H₂₂BF₄FeO₂P M 540.083

Yellow cryst. (CH₂Cl₂/pentane). Mp 190°.

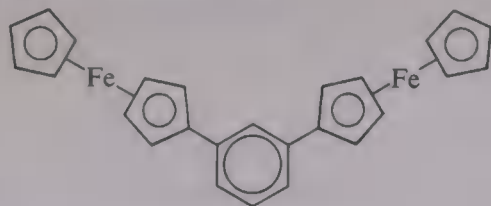
Chaudhari, F.M. *et al*, *J. Organomet. Chem.*, 1966, **5**, 73 (*synth*, *ir*)

C₂₆H₂₂Fe₂

Fe-01927

1,3-Diferrocenylbenzene

1,3-Benzenediylbisferrocene



M 446.154

Cryst. (cyclohexane). Mp 189-91°.

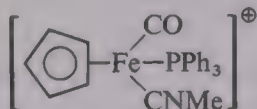
Little, W.F. *et al*, *Chem. Ind. (London)*, 1964, 195 (*synth*, *pmr*)

C₂₆H₂₃FeNOP[⊕]

Fe-01928

Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(isocyanomethane)(triphenylphosphine)iron(1⁺), 9Cl

Carbonyl- π -cyclopentadienyl(methyl isocyanide)(triphenylphosphine)iron(1⁺)



M 452.295 (ion)

Hexafluorophosphate: [61113-71-1].

C₂₆H₂₃F₆NOP₂ M 541.412

Pale-yellow cryst. (Me₂CO).

Tetraphenylborate: [52410-00-1].

C₅₀H₄₃BFeNOP M 771.527

Yellow cryst. (CH₂Cl₂/Et₂O).

Angelici, R.J. *et al*, *J. Organomet. Chem.*, 1974, **67**, 287 (*synth*, *ir*, *pmr*)

Busetto, L. *et al*, *Inorg. Chim. Acta*, 1976, **19**, 233 (*synth*, *ir*)

Johnson, B.V. *et al*, *Inorg. Chem.*, 1979, **18**, 1796 (*mössbauer*, *ir*)

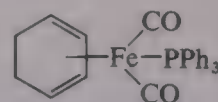
Johnson, B.V. *et al*, *J. Organomet. Chem.*, 1980, **190**, 187 (*synth*, *ir*, *pmr*, *cmr*)

C₂₆H₂₃FeO₂P

Fe-01929

Dicarbonyl[(1,2,3,4- η)-1,3-cyclohexadiene](triphenylphosphine)iron, 9Cl

[12213-19-3]



M 454.287

Yellow cryst. (Et₂O/pentane). Mp 120-1°.

Chaudhari, F.M. *et al*, *J. Organomet. Chem.*, 1966, **5**, 73 (*synth*, *ir*, *pmr*)

Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 2546 (*ir*)

Pearson, A.J., *J. Chem. Soc., Dalton Trans.*, 1981, 884 (*struct*, *cmr*, *ir*, *pmr*, *synth*)

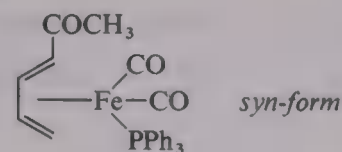
C₂₆H₂₃FeO₃P

Fe-01930

Dicarbonyl[(3,4,5,6- η)-3,5-hexadien-2-one](triphenylphosphine)iron, 10Cl

(1-Acetyl- η^4 -butadiene)dicarbonyl(triphenylphosphine)iron

[12283-76-0]



M 470.287

syn-form [65556-43-6]

Yellow cryst. Mp 173°.

anti-form [65556-44-7]

Orange-yellow cryst. (Et₂O/pet. ether). Mp 126-8°.

Chaudhari, F.M. *et al*, *J. Chem. Soc. (C)*, 1967, 2255 (*synth*, *ir*, *pmr*)

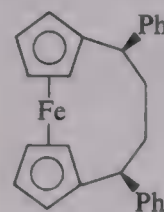
C₂₆H₂₄Fe

Fe-01931

1,4-Diphenyl[4]ferrocenophane

1,1'-(1,4-Diphenyl-1,4-butanediyl)ferrocene, 9Cl

[42790-07-8]



M 392.323

(*1RS,4SR*)-*form* [42790-08-9]

cis-form. meso-form

Mp 176-7°. *Trans-form* also known.

Hisatome, M. *et al*, *J. Organomet. Chem.*, 1973, **55**, C82 (*synth*, *pmr*)

C₂₆H₂₄FeIOP

Fe-01932

Carbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iodo(triphenylphosphine)iron, 10Cl

[64514-80-3]

As Carbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iodo(trimethyl phosphite-*P*)iron, Fe-00786 with

R = Ph

M 566.200

Cryst. (CHCl₃/pet. ether).

Brown, D.A. *et al*, *Inorg. Chim. Acta*, 1977, **24**, 71 (*synth*, *ir*)

Cutler, A.R., *J. Am. Chem. Soc.*, 1979, **101**, 604 (*synth*, *ir*, *pmr*)

Bodnar, T. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 3292.

Casey, C.P. *et al*, *Organometallics*, 1982, **1**, 1083 (*synth*)

C₂₆H₂₄FeN₂O₂P₂

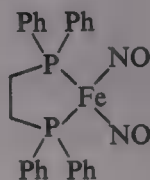
Fe-01933

[1,2-Ethanedithylbis(diphenylphosphine)-P,P']dinitrosyliron,

⁹Cl [Ethylenebis(diphenylphosphine)]dinitrosyliron, ⁸Cl.

[Bis(diphenylphosphino)ethane]dinitrosyliron

[15683-28-0]



M 514.282

Brown cryst. (Me₂CO/EtOH).

Foffani, A. *et al*, *Spectrochim. Acta, Part A*, 1968, **24**, 1437 (*ir*)

Cullen, W.R. *et al*, *Inorg. Chem.*, 1971, **10**, 1616 (*mössbauer*, *esr*)

Ungerman, C.B. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 3862 (*synth*)

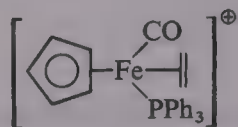
C₂₆H₂₄FeOP⁺

Fe-01934

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)(η²-ethene)(triphenylphosphine)iron(1+)

Carbonyl-π-cyclopentadienyl-π-ethylene(triphenylphosphine)iron(1+). (η²-Ethylene)(η⁵-cyclopentadienyl)carbonyl(triphenylphosphine)iron(1+)

[48219-92-7]



M 439.296 (ion)

Characterised spectroscopically.

Tetrafluoroborate: [41560-74-1].

C₂₆H₂₄BF₄FeOP M 526.099

No phys. props. reported.

Hexafluorophosphate: [74171-06-5].

C₂₆H₂₄F₆FeOP₂ M 584.260

No phys. props. reported.

Davison, A. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 9237 (*synth*)

Reger, D.L. *et al*, *Inorg. Chem.*, 1979, **18**, 3270 (*nmr*)

Bodner, T. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 2471; *J.*

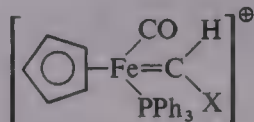
Organomet. Chem., 1981, **213**, C31 (*synth*)

C₂₆H₂₄FeO₂P⁺

Fe-01935

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)(methoxymethylene)-(triphenylphosphine)iron(1+), ¹⁰Cl

Carbonyl-π-cyclopentadienyl(methoxycarbene)(triphenylphosphine)iron(1+)



X = OMe

M 455.295 (ion)

Tetrafluoroborate: [81616-61-7].

C₂₆H₂₄BF₄FeO₂P M 542.099

Yellow solid.

Hexafluorophosphate: [69621-16-5].

C₂₆H₂₄F₆FeO₂P₂ M 600.259

Yellow solid + 1 Et₂O (Me₂CO/Et₂O).

C₂₆H₂₅FeO₂P

Fe-01936

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)(methoxymethyl)(triphenylphosphine)iron, ⁹Cl

σ-Methoxymethyl-π-cyclopentadienyl(triphenylphosphine)carbonyliron. (η¹-Methoxymethyl)(η⁵-cyclopentadienyl)carbonyl(triphenylphosphine)iron. (η⁵-Cyclopentadienyl)carbonyl(methoxymethyl)(triphenylphosphine)iron

[53521-55-4]

As Bromocarbonyl(η⁵-2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01822 with

X = -CH₂OMe

M 456.303

(±)-form

Orange-red cryst. Mp 156-157.5°.

Flood, T.C. *et al*, *Inorg. Chem.*, 1976, **15**, 1910 (*synth*, *ir*, *pmr*)

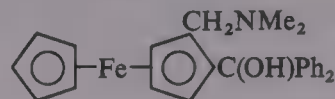
C₂₆H₂₇FeNO

Fe-01937

2-[(Dimethylamino)methyl]-α,α-diphenylferrocenemethanol, ⁸Cl

2-(α,α-Diphenylhydroxymethyl)dimethylaminomethyl-ferrocene

[1273-42-3]



M 425.352

Yellow-orange cryst. (MeOH/Et₂O). Mp 126-127.5°.

B, MeI:

C₂₇H₃₀FeINO M 567.292

Yellow cryst. (MeCN/Et₂O). Mp 220-5° dec.

Slocum, D.W. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 1241 (*synth*, *ir*, *pmr*)

C₂₆H₂₇FeP

Fe-01938

Bis(η⁴-1,3-butadiene)(triphenylphosphine)iron, ⁹Cl

[53204-11-8]

As Bis(η⁴-1,3-butadiene)(phosphorous trifluoride)iron, Fe-00321 with

X = PPh₃

M 426.320

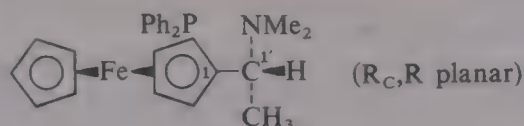
Orange cryst. (pentane).

Schäfer, W. *et al*, *Z. Anorg. Allg. Chem.*, 1974, **406**, 101, 105 (*synth*, *pmr*, *ms*, *nmr*, *cmr*)

C₂₆H₂₈FeNP

Fe-01939

1-[1-(Dimethylamino)ethyl]-2-(diphenylphosphino)ferrocene, 9Cl
 α -[2-(Diphenylphosphino)ferrocenyl]ethyl]dimethylamine. PPF_A
 [60816-98-0]



M 441.335

Metal complexes used for asymmetric induction.

(R)_C(R)_{planar}-form [74311-54-9]

(1S,1'R)-form

Orange oil. $[\alpha]_D^{25} +364^\circ$ (c, 0.4 in CHCl₃).(R)_C(S)_{planar}-form [55700-44-2]

(1R,1'R)-form

Orange cryst. (EtOH). Mp 139°. $[\alpha]_D^{25} -361^\circ$ (c, 0.6 in EtOH).PdCl₂ complex: [76374-09-9].C₂₆H₂₈Cl₂FeNPPd M 618.661

Catalyst for asymmetric hydrosilylation of alkenes.

Red needles (CH₂Cl₂/hexane).(S)_C(R)_{planar}-form [55630-58-3]

(1S,1'S)-form

NiCl₂ complex used for asymmetric cross-coupling of Grignard reagents with vinylic halides. Orange cryst. (EtOH). Mp 139°. $[\alpha]_D^{25} +361^\circ$ (c, 0.6 in EtOH).

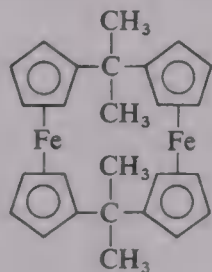
(RS,RS)-form

(Norbornadiene)rhodiumhexafluorophosphate complex:

C₃₇H₃₆F₆FeNP₂Rh M 829.389Hydrogenation catalyst. Orange cryst. (EtOH/CH₂Cl₂). Mp 192° dec.Hayashi, T. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 3718 (*use*)Kumada, M. *et al*, *CA*, 1976, **85**, 143275 (*synth*)Tamao, K. *et al*, *Tetrahedron Lett.*, 1979, **23**, 2155.Cullen, W.R. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 988 (*struct*)Einstein, F.W.B. *et al*, *Acta Crystallogr., Sect. B*, 1980, **36**, 39 (*struct*)Hayashi, T. *et al*, *Tetrahedron Lett.*, 1980, **21**, 1871.Hayashi, T. *et al*, *Bull. Chem. Soc. Jpn.*, 1980, **53**, 1138 (*synth*, *cd*, *use*, *uv*, *pmr*, *ir*)C₂₆H₂₈Fe₂

Fe-01940

1,1,12,12-Tetramethyl[1.1]ferrocenophane, 9Cl
 [51159-93-4]

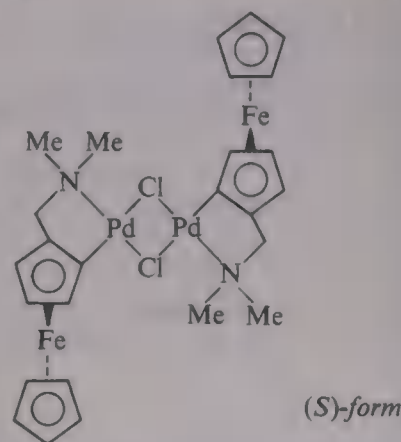


M 452.201

Red cryst. (Et₂O/pet. ether). Mp 141-2°.Barr, T.H. *et al*, *Tetrahedron*, 1969, **25**, 6001 (*synth*, *pmr*, *uv*)C₂₆H₃₂Cl₂Fe₂N₂Pd₂

Fe-01941

Di- μ -chlorobis[2-[(dimethylamino)methyl]ferrocenyl-C,N]dipalladium, 10Cl, 9Cl
 [58616-62-9]



M 767.992

Orange cryst. (MeOH). Mp 172-5° dec.

(R)-form [71214-61-4]

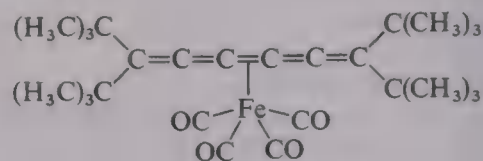
Red cryst. (C₆H₆/heptane). Mp 172°. $[\alpha]_D^{20} +511^\circ$ (c, 0.35 in CH₂Cl₂), $[\alpha]_D +664^\circ$ (c, 0.15 in CH₂Cl₂).

(S)-form

 $[\alpha]_D^{20} -470^\circ$ (c, 0.4 in CH₂Cl₂).Gaunt, J.C. *et al*, *J. Organomet. Chem.*, 1975, **102**, 511 (*synth*)Sokolov, V.I. *et al*, *Chimia*, 1978, **32**, 122.Sokolov, V.I. *et al*, *J. Organomet. Chem.*, 1979, **182**, 537 (*synth*, *pmr*)Komatsu, T. *et al*, *Bull. Chem. Soc. Jpn.*, 1981, **54**, 186 (*resoln*, *uv*, *pmr*, *cd*)C₂₆H₃₆FeO₄

Fe-01942

[(5,6- η)-3,8-Di-*tert*-butyl-2,2,9,9-tetramethyl-3,4,5,6,7-decapentaene]tetracarbonyliron
 [(5,6- η)-3,8-Bis(1,1-dimethylethyl)-2,2,9,9-tetramethyl-3,4,5,6,7-decapentaene]tetracarbonyliron, 9Cl.
 (Tetra-*tert*-butylhexapentaene)iron tetracarbonyl
 [55979-13-0]

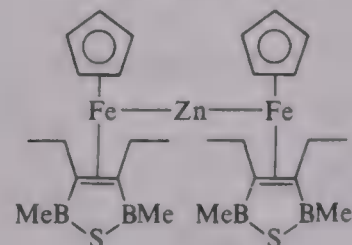


M 468.415

Yellow cryst. (hexane). Mp 102-4°. Bp_{0.01} 100° subl.King, R.B. *et al*, *J. Organomet. Chem.*, 1975, **88**, 93 (*synth*, *ir*, *pmr*, *cmr*)C₂₆H₄₂B₄Fe₂S₂Zn

Fe-01943

Bis- μ -[(η^5 -2,4-cyclopentadien-1-yl)-bis[μ -[(3,4- η :3,4- η)-3,4-diethyl-2,5-dihydro-2,5-dimethyl-1,2,5-thiadiborole-B²,B⁵,S¹:B²,B⁵,S¹]]diiron]zinc, 10Cl



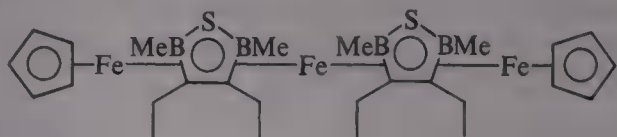
M 639.052

Intermed. for triple decker sandwich compds. Red cryst. (hexane). Mp 182-4°.

Siebert, W. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1980, **19**, 746 (synth, nmr, ms)

C₂₆H₄₂B₄Fe₃S₂ Fe-01944

Bis(η⁵-2,4-cyclopentadien-1-yl)bis[μ-[(3,4-η:3,4-η)-3,4-diethyl-2,5-dihydro-2,5-dimethyl-1,2,5-thiadiborole-B²,B⁵,S¹:B²,B⁵,S¹]]triiron, 10Cl
[74964-92-4]



M 629.519

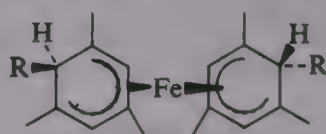
Black needles (toluene). Mp 209-11° dec.

Siebert, W. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1980, **19**, 746 (synth, pmr, nmr, struct)

C₂₆H₄₂Fe Fe-01945

Bis-[(1,2,3,4,5-η)-6-tert-butyl-1,3,5-trimethyl-2,4-cyclohexadien-1-yl]iron

Bis[(1,2,3,4,5-η)-6-(1,1-dimethylethyl)-1,3,5-trimethyl-2,4-cyclohexadien-1-yl]iron, 9Cl



R = (H₃C)₃C-

M 410.465

exo,exo-form [33435-37-9]

Air-stable orange cryst. Mp 203-4°. Fluxional.

Helling, J.F. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 7207, 7208 (synth, pmr)

Mathew, M. *et al*, *Inorg. Chem.*, 1972, **11**, 2809 (struct, ir)

C₂₇H₂₀FeNO₄P Fe-01946

Benzoyldicarbonylnitrosyl(triphenylphosphine)iron

[17786-26-4]

PhCOFe(CO)₂(PPh₃)NO

M 509.280

Characterised spectroscopically.

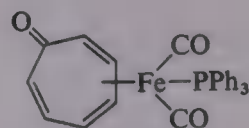
Chaudhari, F.M. *et al*, *J. Chem. Soc. (C)*, 1967, 2255 (synth, ir, pmr)

C₂₇H₂₁FeO₃P Fe-01947

Dicarbonyl[(2,3,4,5-η)-2,4,6-cycloheptatrien-1-one](triphenylphosphine)iron, 9Cl

Dicarbonyl(triphenylphosphine)troponeiron

[57676-70-7]



M 480.282

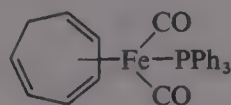
Orange-red cryst. (C₆H₆). Mp 187-90° dec.

Weiss, E. *et al*, *Chem. Ber.*, 1962, **95**, 1179 (synth, ir)

C₂₇H₂₃FeO₂P Fe-01948

Dicarbonyl[(1,2,3,4-η)-1,3,5-cycloheptatriene(triphenylphosphine)iron, 9Cl

[12156-98-8]



M 466.298

Yellow cryst. (Et₂O/pentane). Mp 137°.

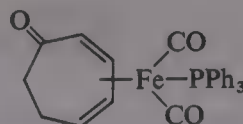
Reckziegel, A. *et al*, *J. Organomet. Chem.*, 1965, **3**, 341 (ir)

Chaudhari, F.M. *et al*, *J. Organomet. Chem.*, 1966, **5**, 73 (synth)

Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 2546 (ir)

C₂₇H₂₃FeO₃P Fe-01949

Dicarbonyl[(2,3,4,5-η)-2,4-cycloheptadien-1-one](triphenylphosphine)iron



M 482.298

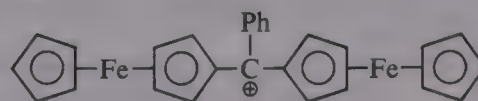
Ochre-yellow cryst. (C₆H₆/pet. ether). Mp 177-80°.

Weiss, E. *et al*, *Chem. Ber.*, 1962, **95**, 1179 (synth, ir)

C₂₇H₂₃Fe₂[⊕] Fe-01950

Diferrocenylphenylmethylium(1+), 9Cl

[12296-35-4]



M 459.173 (ion)

Tetrafluoroborate: [56607-23-9].

C₂₇H₂₃BF₄Fe₂ M 545.976

No phys. props. recorded.

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1967, 464 (synth)

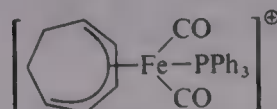
Lupan, S. *et al*, *Angew. Chem.*, 1972, **84**, 1104 (pmr)

Allenmark, S. *et al*, *Chem. Scr.*, 1975, **7**, 97 (synth, uv)

Bunton, C.A. *et al*, *J. Organomet. Chem.*, 1977, **131**, C21 (synth)

C₂₇H₂₄FeO₂P[⊕] Fe-01951

Dicarbonyl[(1,2,3,4,5-η)-2,4-cycloheptadien-1-yl](triphenylphosphine)iron(1+), 9Cl



M 467.306 (ion)

Hexafluorophosphate: [55744-14-4].

C₂₇H₂₄F₆FeO₂P₂ M 612.270

Light-yellow solid.

Tetrafluoroborate: [67663-78-9].

C₂₇H₂₄BF₄FeO₂P M 554.110

Pale-yellow solid (Me₂CO/Et₂O). Mp 178°.

Chaudhari, F.M. *et al*, *J. Organomet. Chem.*, 1966, **5**, 73 (synth, ir)

Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 2105 (synth, ir, pmr)

Schiavon, G. *et al*, *J. Organomet. Chem.*, 1981, **210**, 247 (synth, ir)

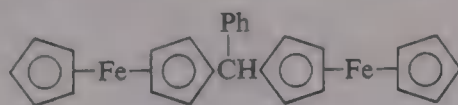
C₂₇H₂₄Fe₂

Fe-01952

Diferrocenylphenylmethane

1,1''-(Phenylmethylene)bisferrocene, 9Cl

[12132-21-7]



M 460.181

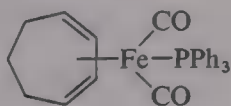
Orange cryst. (pet. ether). Mp 133-5°.

Weliky, N. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 2742 (*synth*)Pauson, P.L. *et al*, *J. Chem. Soc.*, 1962, 3880 (*synth*)C₂₇H₂₅FeO₂P

Fe-01953

Dicarbonyl[(1,2,3,4-η)-1,3-cycloheptadiene](triphenylphosphine)iron, 10Cl

[12213-31-9]



M 468.314

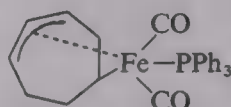
Yellow cryst. (Et₂O/pentane). Mp 128°.Chaudhari, F.M. *et al*, *J. Organomet. Chem.*, 1966, **5**, 73 (*synth*, *ir*)Edwards, R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 2105 (*synth*, *ir*, *pmr*)Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1978, 369 (*synth*)C₂₇H₂₅FeO₂P

Fe-01954

Dicarbonyl[(1,3,4,5-η)-4-cycloheptene-1,3-diyl](triphenylphosphine)iron, 9Cl

Dicarbonyl(3,4,5-η,1-σ-cycloheptenyl)(triphenylphosphine)iron

[55938-83-5]



M 468.314

Light-yellow cryst. (pentane).

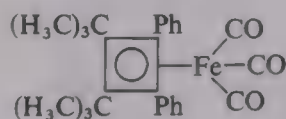
Edwards, R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 2105 (*synth*, *ir*, *pmr*)C₂₇H₂₈FeO₃

Fe-01955

Tricarbonyl(1,2-di-*tert*-butyl-3,4-diphenylcyclobutadiene)-iron

[1,1'-[(1,2,3,4-η)-3,4-bis(1,1-dimethylethyl)-1,3-cyclobutadiene-1,2-diyl]bis[benzene]]tricarbonyliron, 9Cl

[32760-81-9]



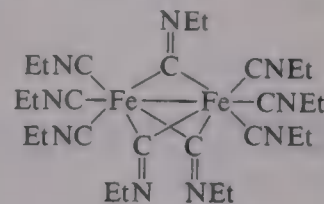
M 456.363

White cryst. (EtOH). V. sol. pet. ether. Mp 137°. Subl. *in vacuo*.Avram, M. *et al*, *Rev. Roum. Chim.*, 1969, **14**, 1181 (*synth*, *pmr*, *ir*)Murahashi, S. *et al*, *J. Chem. Soc., Chem. Commun.*, 1974, 563 (*synth*)C₂₇H₄₅Fe₂N₉

Fe-01956

Nonakis(ethyl isocyanide)diiron

Nonakis(isocyanoethane)diiron, 9Cl



M 607.407

Monoclinic orange cryst. V. air sensitive.

Bassett, J.-M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 219 (*synth*, *ir*, *pmr*, *struct*)C₂₇H₅₄FeO₃P₂

Fe-01957

Tricarbonylbis(tributylphosphine)iron, 9Cl, 8Cl

[23540-33-2]

As Tricarbonylbis(trimethylphosphine)iron, Fe-00465 with

R = -(CH₂)₃CH₃

M 544.516

trans-form [49655-14-3]

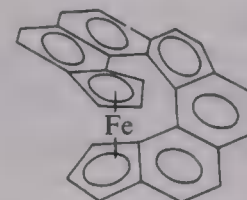
Light-yellow cryst. (heptane). Mp 55°.

Strohmeier, W. *et al*, *Chem. Ber.*, 1969, **102**, 3613 (*synth*)Darensbourg, D.J. *et al*, *Inorg. Chem.*, 1974, **13**, 2135 (*ir*)Mosbaek, H. *et al*, *Acta Chem. Scand., Ser. A*, 1975, **29**, 957 (*mössbauer*)C₂₈H₁₆Fe

Fe-01958

[(1,2,3,3a,13a,14,15,16,16a,16f-η)-Diindeno(5,4-c,4',5'-g)-phenanthrene]iron

[83633-75-4]



M 408.281

Helical molecule. Dark-red cryst.

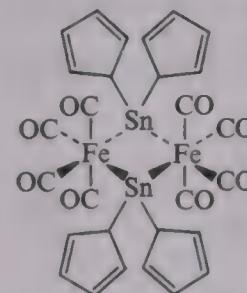
Katz, T.J. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 346 (*synth*, *uv*, *ms*, *pmr*)Dewan, J.C., *Organometallics*, 1983, **2**, 83 (*struct*)C₂₈H₂₀Fe₂O₈Sn₂

Fe-01959

Octacarbonylbis[μ-(di-2,4-cyclopentadien-1-ylstannylene)]-diiron, 9Cl

Di-μ-[bis(cyclopentadienyl)stannyl]bis(tetracarbonyliron)

[54218-97-2]



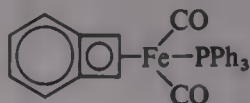
M 833.535

Deep-red cryst. (C₆H₆).Cornwell, A.B. *et al*, *J. Organomet. Chem.*, 1974, **76**, C26 (*synth*)

Harrison, P.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 2097 (*cryst struct*)
 Cornwell, A.B. *et al*, *J. Organomet. Chem.*, 1976, **108**, 47 (*synth*)

C₂₈H₂₁FeO₂P **Fe-01960**

[(1,6,7,8- η)-Bicyclo[4.2.0]octa-1,3,5,7-tetraene]dicarbonyl-(triphenylphosphine)iron
 (Benzocyclobutadiene)dicarbonyl(triphenylphosphine)-iron
 [57408-20-5]



M 476.293

Emerson, G.F. *et al*, *J. Am. Chem. Soc.*, 1965, **87**, 131 (*synth*)
 Efraty, A. *et al*, *J. Organomet. Chem.*, 1975, **91**, 327 (*ms*)
 Riley, P.E. *et al*, *Organometallics*, 1983, **2**, 286 (*struct, ir*)

C₂₈H₂₂FeGeO₃ **Fe-01961**

Tricarbonyl[(2,3,4,5- η)-2,4,6-cycloheptatrien-1-yl]triphenylgermane]iron, 10Cl
 [(1,2,3,4- η)-7-Triphenylgermyl-1,3,5-cycloheptatriene]tricarbonyliron
 [83058-34-8]

As Tricarbonyl[(2,3,4,5- η)-2,4,6-cycloheptatrien-1-yl]trimethylgermane]iron,
 Fe-01096 with

R = GePh₃

M 534.917

A fluxional molecule in soln. at elevated temp.

exo-form

Air-stable bright-yellow cryst. (pentane).

Li Shing Mau, L.K.K. *et al*, *Organometallics*, 1983, **2**, 28
 (*synth, struct, ir, cmr, pmr, ms*)

C₂₈H₂₂Fe₂O₄ **Fe-01962**

Di- μ -carbonyldicarbonylbis(benzyl- π -cyclopentadienyl)diiron

Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1-phenyl-methyl-2,4-cyclopentadien-1-yl]diiron. Bis[benzylcyclopentadienyldicarbonyliron]. Di(benzylcyclopentadienyl)-diiron tetracarbonyl

As Di-

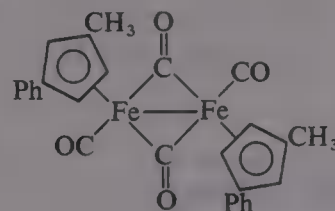
μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]diiron, Fe-01409 with

R = CH₂Ph

M 534.173

Purple cryst. (Me₂CO/ligroin). Mp 151° (*in vacuo*).Hallam, B.F. *et al*, *J. Chem. Soc.*, 1956, 3030 (*synth*)C₂₈H₂₂Fe₂O₄**Fe-01963**

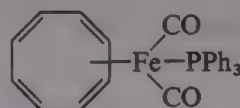
Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl]diiron, 9Cl
 Tetracarbonylbis(1-methyl-3-phenyl- π -cyclopentadienyl)diiron. Bis[(1-methyl-3-phenylcyclopentadienyl)-dicarbonyliron]
 [54510-27-9]



M 534.173

Dark-purple cryst. (C₆H₆/pentane).Attig, T.G. *et al*, *J. Organomet. Chem.*, 1974, **82**, 397 (*synth, ir*)C₂₈H₂₃FeO₂P**Fe-01964**

Dicarbonyl[(1,2,3,4- η)-1,3,5,7-cyclooctatetraene](triphenylphosphine)iron, 10Cl
 [61863-63-6]



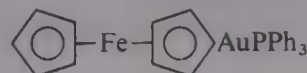
M 478.309

Red cryst. (hexane/CH₂Cl₂). Mp 154°.

Connelly, N.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 1317
 (*synth, ir*)

C₂₈H₂₄AuFeP**Fe-01965**

[(Triphenylphosphine)aurio]ferrocene, 9Cl
 (Ferrocenyl)(triphenylphosphine)gold
 [35004-41-2]



M 644.285

Orange air stable cryst. (THF/hexane). Sol. Et₂O, CHCl₃, THF, EtOH. Mp 150° dec.

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1969, 2030 (*synth, nmr*)

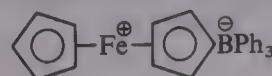
Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1974, **65**, 131 (*nmr*)

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1976, 2844.

Jones, P.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1977, 1434 (*mossbauer*)

C₂₈H₂₄BFe**Fe-01966**

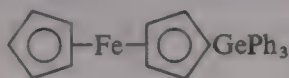
Ferroceniumyltriphenylborate(1-), 8Cl
 [33340-89-5]



M 427.155

Inner ferrocenium salt. Dark-green solid. Unstable in air, dec. slowly in soln. Mod. sol. CHCl₃, CH₂Cl₂, spar. sol. Me₂CO, MeNO₂, insol. Et₂O, hydrocarbons. Paramagnetic.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1971, **198**, 848; **200**, 1365 (*synth*)

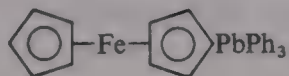
C₂₈H₂₄FeGe(Triphenylgermyl)ferrocene
Ferrocenyltriphenylgermane

M 488.935

Orange cryst. Mp 155-6°.

Seyferth, D. *et al*, *Inorg. Chem.*, 1962, **1**, 227 (*synth*, *ir*)

Fe-01967

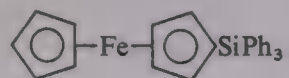
C₂₈H₂₄FePb(Triphenylplumbyl)ferrocene, 8Cl
Ferrocenyltriphenylplumbane
[12291-01-9]

M 623.545

Orange cryst. Mp 130-2°.

U.S.P., 3 350 434, (1968); *CA*, **68**, 49789 (*synth*)

Fe-01968

C₂₈H₂₄FeSi(Triphenylsilyl)ferrocene
Ferrocenyltriphenylsilane
[12261-75-5]

M 444.430

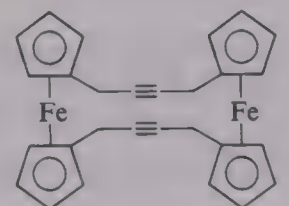
Orange cryst. (heptane). Mp 144-5°.

Benkeser, R.A. *et al*, *J. Am. Chem. Soc.*, 1954, **76**, 4025 (*synth*)Seyferth, D. *et al*, *Inorg. Chem.*, 1962, **1**, 227 (*synth*)

Fe-01969

C₂₈H₂₄Fe₂

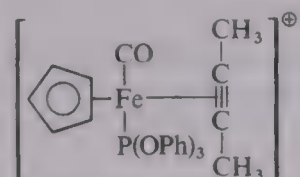
[4.4]Ferrocenophane-2,16-diyne

1,1'':1',1'''-Bis(2-butyne-1,4-diyl)bisferrocene, 9Cl
[39366-55-7]

M 472.192

Golden-brown prisms (toluene). Spar. sol. org. solvs. Mp 246-9° (*in vacuo*).Katz, T.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 2934 (*synth*, *ir*, *pmr*, *ms*)

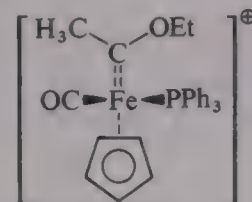
Fe-01970

C₂₈H₂₆FeO₄P[⊕][(2,3-η)-Butyne]carbonyl(η⁵-2,4-cyclopentadien-1-yl)(triphenyl phosphite-P)iron(1+), 10Cl
[83096-10-0]

M 513.332 (ion)

Tetrafluoroborate:

Fe-01971

C₂₈H₂₆BF₄FeO₄P M 600.135Usually prepd. and used *in situ*. Red-brown fluffy solid.Reger, D.L. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 5923.Reger, D.L. *et al*, *Organometallics*, 1983, **2**, 101 (*synth*, *use*)C₂₈H₂₈FeO₂P[⊕]Carbonyl(η⁵-2,4-cyclopentadien-1-yl)(1-ethoxyethylidene)-(triphenylphosphine)iron(1+), 9Cl

M 483.349 (ion)

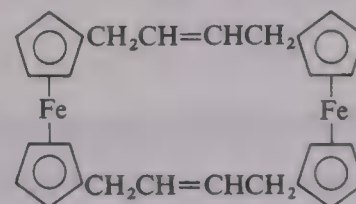
*opt. active-form*Stereochemistry confused. Descr. as the (*R*)(+)-form, but has (*S*)-config. acc. to Stanley and Baird convention and the tetrafluoroborate is laevorotatory.Tetrafluoroborate: [53318-89-1]. [α]_D²⁷ -1150°.

(±)-form

Tetrafluoroborate: [32611-17-9].

C₂₈H₂₈BF₄FeO₂P M 570.152Yellow cryst. (CH₂Cl₂/Et₂O). Mp 111° dec. Forms CH₂Cl₂ solvate.Green, M.L.H. *et al*, *J. Chem. Soc. (A)*, 1971, 794 (*synth*, *ir*, *pmr*)Davison, A. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 9237; *J. Organomet. Chem.*, 1974, **74**, C17 (*synth*, *cd*)C₂₈H₂₈Fe₂

[4.4]Ferrocenophane-2,16-diene

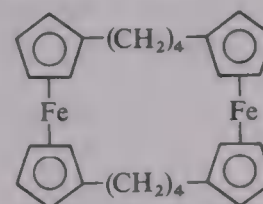
1,1'':1',1'''-Bis(2-butene-1,4-diyl)bisferrocene, 9Cl
[39366-56-8]

M 476.223

Orange plates (toluene). Mp 219-23°.

Katz, T.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 2934 (*synth*, *ir*, *pmr*, *ms*)C₂₈H₃₂Fe₂

[4.4]-Ferrocenophane



M 480.255

Fine yellow cryst. (C₆H₆). Mp 232-4°. Bp 200° *in vacuo* subl.Lüttringhaus, A. *et al*, *Macromol. Chem.*, 1961, **44-46**, 669 (*synth*)

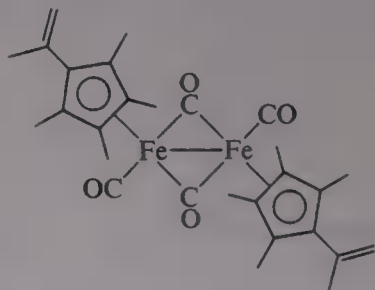
Fe-01973

Fe-01974

$C_{28}H_{34}Fe_2O_4$

Fe-01975

Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1,2,3,4-tetramethyl-5-(1-methylethenyl)-2,4-cyclopentadien-1-yl]diiron, 9Cl
Di- μ -carbonyldicarbonylbis(1-isopropenyl-2,3,4,5-tetramethyl- π -cyclopentadienyl)diiron. Bis[1-isopropenyl-2,3,4,5-tetramethylcyclopentadienyldicarbonyliron]. Tetracarbonylbis(1-isopropenyl-2,3,4,5-tetramethylcyclopentadienyl)diiron
 [52487-18-0]



M 546.268

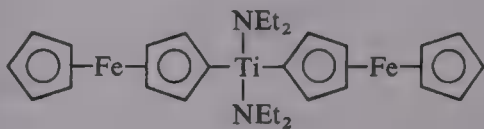
Dark-red cryst. Mp 184-6°.

King, R.B. *et al*, *J. Organomet. Chem.*, 1974, **69**, 131 (*synth, ir, pmr, ms*)

$C_{28}H_{38}Fe_2N_2Ti$

Fe-01976

Diferrocenylbis(diethylaminato)titanium
Bis(N-ethylethanaminato)diferrocenyltitanium, 9Cl
 [39470-19-4]



M 562.196

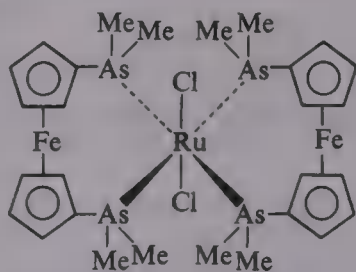
Cherry-red cryst. (Et₂O/pet. ether). Mp 72° dec.

Bürger, H. *et al*, *J. Organomet. Chem.*, 1973, **56**, 269 (*synth, pmr, cmr, ir*)

$C_{28}H_{40}As_4Cl_2Fe_2Ru$

Fe-01977

Dichlorobis[1,1'-ferrocenediylbis(dimethylarsine)]ruthenium, 8Cl
 [11058-58-5]



M 959.980

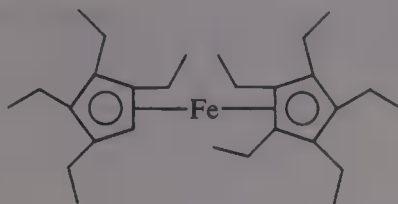
Orange cryst. (C₆H₆/heptane). Mp 280-281.5°.

Davison, A. *et al*, *Inorg. Chem.*, 1971, **10**, 832 (*synth, ir, pmr, uv*)

$C_{28}H_{46}Fe$

Fe-01978

Nonaethylferrocene, 8Cl
(η^5 -Pentaethylcyclopentadienyl)(η^5 -tetraethylcyclopentadienyl)iron



M 438.518

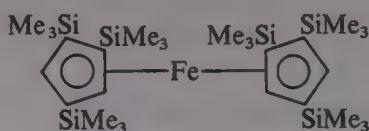
Solid. Mp 181-5°.

Bublitz, D.E., *J. Organomet. Chem.*, 1969, **16**, 149 (*synth, pmr, glc, ir*)

$C_{28}H_{58}FeSi_6$

Fe-01979

1,1',2,2',4,4'-Hexakis(trimethylsilyl)ferrocene, 9Cl
 [59520-47-7]



M 619.126

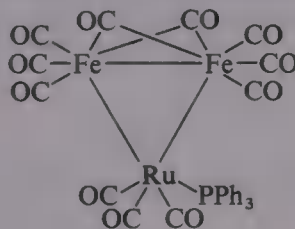
Red cryst. Mp 205-7°.

Miftakov, M.S. *et al*, *Zh. Obshch. Khim.*, 1976, **46**, 930 (*synth, ir, pmr*)

$C_{29}H_{15}Fe_2O_{11}PRu$

Fe-01980

Tricarbonyl(di- μ -carbonylhexacarbonyldiiron)(triphenylphosphine)ruthenium, 10Cl
Di- μ -carbonylnonacarbonyl(triphenylphosphine)diiron-ruthenium. Undecacarbonyl(triphenylphosphine)-diironruthenium
 [77308-83-9]



M 783.169

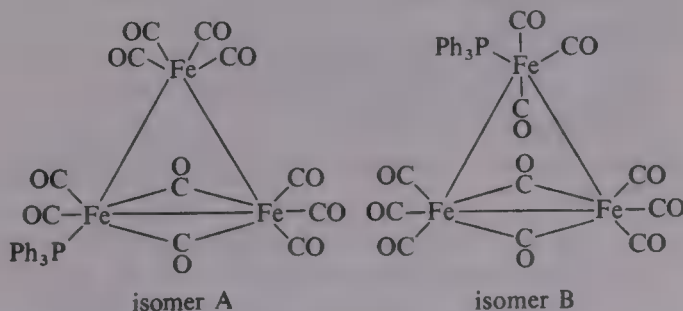
Violet cryst. Mp 136-40°.

Jones, D.F. *et al*, *Inorg. Chem.*, 1981, **20**, 3247 (*synth, ir*)

$C_{29}H_{15}Fe_3O_{11}P$

Fe-01981

Di- μ -carbonylnonacarbonyl(triphenylphosphine)triiron, 8Cl
Undecacarbonyl(triphenylphosphine)triiron, 10Cl
 [20861-42-1]



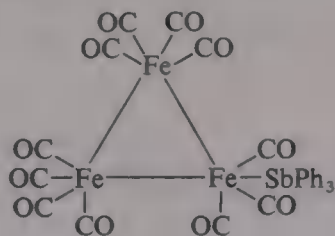
M 737.946

Each asymmetric cryst. unit contains 2 molecules which are structural isomers (A and B). Dark-green plates (pentane).

Angelici, R.J. *et al*, *Inorg. Chem.*, 1966, **5**, 1457 (*synth, ir*)
 Dahm, D.J. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 5106 (*struct*)

C₂₉H₁₅Fe₃O₁₁Sb**Fe-01982**

Di-μ-carbonylnonacarbonyl(triphenylstibine)triiron, 10Cl
Undecacarbonyl(triphenylstibine)triiron
 [69203-42-5]



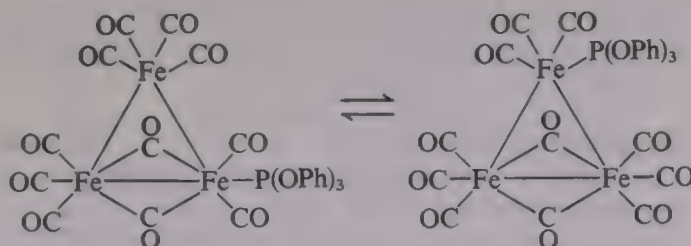
M 828.722

Exists in soln. as mixt. of bridged and non-bridged carbonyl forms. Mp 98° dec.

Grant, S.M. *et al*, *Inorg. Chim. Acta*, 1978, **31**, 41 (*synth, ir*)

C₂₉H₁₅Fe₃O₁₄P**Fe-01983**

Undecacarbonyl(triphenyl phosphite)triiron, 9Cl
 [55787-43-4]



M 785.944

Fluxional. Mp 110-2° (sealed tube).

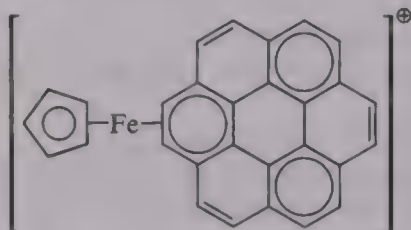
Grant, S.M. *et al*, *Inorg. Chim. Acta*, 1978, **31**, 41 (*synth, ir*)

Dawson, P.A. *et al*, *Inorg. Chem.*, 1980, **19**, 465 (*bibl*)

Benfield, R.E. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 1535 (*cmr, nmr*)

C₂₉H₁₇Fe⁺**Fe-01984**

[(1,2,2a,12a,12b,12c-η)-Coronene](η⁵-2,4-cyclopentadien-1-yl)iron(1+), 10Cl



M 421.300 (ion)

Hexafluorophosphate: [67734-80-9].

C₂₉H₁₇F₆FeP M 566.264

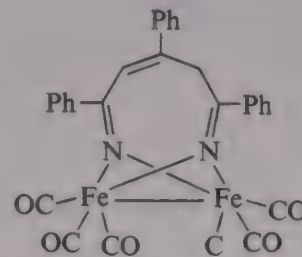
Dark-red needles (Me₂CO/Et₂O). Mp 120° dec.

Solns. highly light-sensitive.

Schmitt, G. *et al*, *J. Organomet. Chem.*, 1978, **152**, 315 (*synth, pmr, cmr*)

C₂₉H₁₈Fe₂N₂O₆**Fe-01985**

Hexacarbonyl[μ-[1,3,5-triphenyl-2-pentene-1,5-diiminato(2-)-N,N':N,N']diiron, 9Cl
μ-(1,3,5-Triphenyl-2-pentene-1,5-diiminato)bis(tricarbonyliron)
 [31178-45-7]



M 602.165

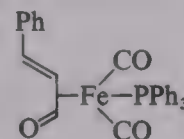
Red cryst. (hexane). Mp 137°.

Carty, A.J. *et al*, *J. Chem. Soc., Chem. Commun.*, 1970, 1664 (*struct*)

Madden, D.P. *et al*, *Inorg. Chem.*, 1972, **11**, 1453 (*synth, ir, pmr, mössbauer, ms*)

C₂₉H₂₃FeO₃P**Fe-01986**

Dicarbonyl[(O,1,2,3-η)-3-phenyl-2-propenal](triphenylphosphine)iron, 10Cl
(Cinnamaldehyde)dicarbonyl(triphenylphosphine)iron
 [63625-70-7]



M 506.320

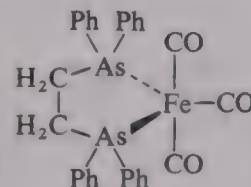
Red cryst. (hexane).

Cardaci, G. *et al*, *Inorg. Chem.*, 1977, **16**, 3099 (*synth, ir*)

Sacerdoti, M. *et al*, *Acta Crystallogr., Sect. B*, 1980, **36**, 1061 (*struct*)

C₂₉H₂₄As₂FeO₃**Fe-01987**

Tricarbonyl[1,2-ethanedibis[diphenylarsine]-As,As']iron
Tricarbonyl[ethylenebis[diphenylarsine]]iron. [1,2-Bis-(diphenylarsino)ethane]tricarbonyliron



M 626.197

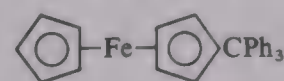
Air-sensitive orange cryst. (pentane). Insol. alcohols. Mp 114-6°.

Zingales, F. *et al*, *Chem. Ind. (Milan)*, 1962, **44**, 1394 (*synth, ir*)

C₂₉H₂₄Fe**Fe-01988**

(Triphenylmethyl)ferrocene

Methyldiyne 1,1',1''-tris[benzene]ferrocene. Tritylferrocene. Cyclopentadienyl(tritylcyclopentadienyl)iron



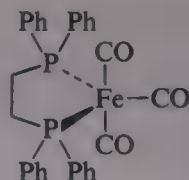
M 428.356

Yellow cryst. (ligroin/C₆H₆). Mp 190-2°. Bp_{0.1} 180° subl.

Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1958, **119**, 288 (*synth*)
 Neuse, E.W. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 1850 (*synth*)
 Pauson, P.L. *et al*, *J. Chem. Soc. (C)*, 1966, 251 (*synth*)

C₂₉H₂₄FeO₃P₂ Fe-01989
Tricarbonyl[1,2-ethanediylbis(diphenylphosphine)-P,P']iron, 9Cl

Tricarbonyl[ethylenebis(diphenylphosphine)]iron, 8Cl.
[1,2-Bis(diphenylphosphino)ethane]tricarbonyliron
 [14881-58-4]



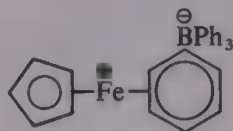
M 538.301

cis-form [38894-55-2]

Yellow cryst. Mp 135° dec., 144-5°.

Manuel, T.A., *Inorg. Chem.*, 1963, **2**, 854 (*synth, ir*)
 Bigorgne, M. *et al*, *C.R. Hebd. Seances Acad. Sci.*, 1964, **258**, 4065 (*ir*)
 Reckziegel, A. *et al*, *J. Organomet. Chem.*, 1965, **3**, 341 (*ir*)
 Cullen, W.R. *et al*, *Can. J. Chem.*, 1969, **47**, 3371; *Inorg. Chem.*, 1969, **8**, 1464 (*synth, ir, ms, pmr*)
 Bruce, M.I., *Org. Mass. Spectrom.*, 1971, **1**, 182 (*ms*)
 Clark, M.G. *et al*, *Inorg. Chem.*, 1973, **12**, 1045 (*mössbauer*)
 Greatrex, R. *et al*, *J. Organomet. Chem.*, 1976, **114**, 199 (*mössbauer*)
 Ittel, S.D. *et al*, *Inorg. Chem.*, 1978, **17**, 3432 (*synth, ir, nmr*)

C₂₉H₂₅BFe Fe-01990
(η⁵-2,4-Cyclopentadien-1-yl)((η⁶-phenyl)triphenylborato(1-))-iron, 10Cl
 [74593-59-2]

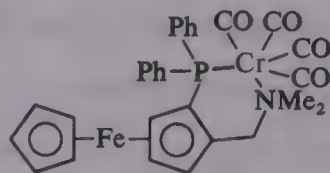


M 440.174

Zwitterionic complex. Mp 275-8° dec.

Slocum, D.W. *et al*, *J. Macromol. Sci., Chem., Part A*, 1981, **16**, 357 (*synth*)

C₂₉H₂₆CrFeNO₄P Fe-01991
Tetracarbonyl[1-[(dimethylamino)methyl]-2-(diphenylphosphino)ferrocene-N,P]chromium, 9Cl
 [55960-25-3]

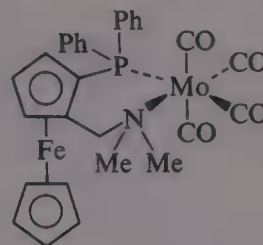


M 591.345

Cryst. (Me₂CO/pet. ether). Mp 160-4°.

Kotz, J.C. *et al*, *J. Organomet. Chem.*, 1975, **84**, 255 (*synth, ir, pmr*)

C₂₉H₂₆FeMoNO₄P Fe-01992
Tetracarbonyl[1-[(dimethylamino)methyl]-2-(diphenylphosphino)ferrocene-N,P]molybdenum, 9Cl

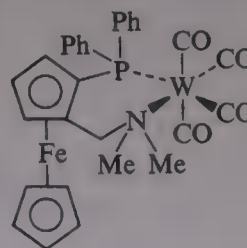


M 635.289

Cryst. (Me₂CO/pet. ether). Mp 175-8° dec.

Kotz, J.C. *et al*, *J. Organomet. Chem.*, 1975, **84**, 255 (*synth, ir, pmr*)

C₂₉H₂₆FeNO₄PW Fe-01993
Tetracarbonyl[1-[(dimethylamino)methyl]-2-(diphenylphosphino)ferrocene-N,P]tungsten, 9Cl

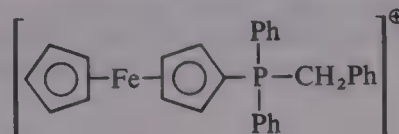


M 723.199

Cryst. (Me₂CO/pet. ether). Mp 203-6° dec.

Kotz, J.C. *et al*, *J. Organomet. Chem.*, 1975, **84**, 255 (*synth, ir, pmr*)

C₂₉H₂₆FeP[⊕] Fe-01994
Benzylidiphenylferrocenylphosphonium(1+)
Ferrocenyldiphenyl(phenylmethyl)phosphonium(1+), 9Cl. (Benzylidiphenylphosphonio)ferrocene(1+)



M 461.345 (ion)

Chloride: [58384-30-8].

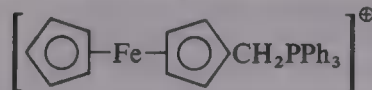
C₂₉H₂₆ClFeP M 496.798

Orange cryst. (EtOH/Et₂O). Mp 178-9°.

McEwen, W.E. *et al*, *J. Org. Chem.*, 1976, **41**, 1684 (*synth, pmr*)

McEwen, W.E. *et al*, *Organometallics*, 1983, **2**, 425 (*struct*)

C₂₉H₂₆FeP[⊕] Fe-01995
(Ferrocenylmethyl)triphenylphosphonium(1+), 9Cl



M 461.345 (ion)

Iodide: [32914-67-3].

C₂₉H₂₆FeIP M 588.250

Dark-yellow leaflets (EtOH). Mp 254-6° dec.

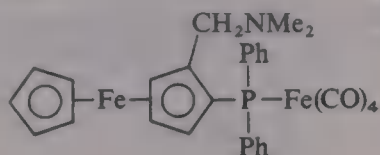
Helling, J.F. *et al*, *Justus Liebigs Ann. Chem.*, 1961, **640**, 79 (*synth*)

Pauson, P.L. *et al*, *J. Chem. Soc.*, 1963, 2990 (*synth, use*)

Koridze, A.A. *et al*, *J. Organomet. Chem.*, 1977, **136**, 57 (*cmr*)

C₂₉H₂₆Fe₂NO₄P**Fe-01996**

Tetracarbonyl[1-[(dimethylamino)methyl]-2-(diphenylphosphino)ferrocene-P]iron, 9Cl
[55672-81-6]



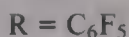
M 595.196

Orange cryst. Mp 144-6°.

Kotz, J.C. *et al*, *J. Organomet. Chem.*, 1975, **64**, 255 (*synth*, *ir*, *pmr*)**C₃₀As₂F₂₀Fe₂O₆****Fe-01997**

Bis[μ-[bis(pentafluorophenyl)arsino]]hexacarbonyldiiron, 8Cl
[20909-66-4]

As Bis[μ-[bis(trifluoromethyl)arsino]]hexacarbonyldiiron, Fe-00470 with



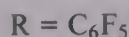
M 1097.832

Air-stable red cryst. Mp 252°.

Cooke, M. *et al*, *J. Chem. Soc. (A)*, 1968, 1507 (*synth*, *nmr*, *ir*, *ms*)**C₃₀F₂₀Fe₂O₆P₂****Fe-01998**

Bis[μ-[bis(pentafluorophenyl)phosphino]]hexacarbonyldiiron, 8Cl
[15627-18-6]

As Bis[μ-[bis(trifluoromethyl)phosphino]]hexacarbonyldiiron, Fe-00475 with



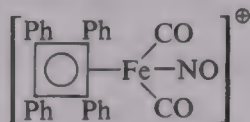
M 1009.936

Yellow-orange or red. Mp 265° dec.

Miller, J.M. *et al*, *J. Chem. Soc. (A)*, 1967, 828 (*ms*)Cooke, M. *et al*, *J. Chem. Soc. (A)*, 1968, 1507 (*synth*, *ir*, *nmr*, *ms*)**C₃₀H₂₀FeNO₃⁺****Fe-01999**

Dicarbonylnitrosyl(tetraphenylcyclobutadiene)iron(1+)

Dicarbonyl[1,1',1'',1'''-(η⁴-1,3-cyclobutadiene-1,2,3,4-tetrayl)tetrakis[benzene]]nitrosyliron(1+), 9Cl



M 498.340 (ion)

Hexafluorophosphate: [43140-26-7].

C₃₀H₂₀F₆FeNO₃P M 643.304Orange cryst. (CH₂Cl₂/toluene). Mp >157° dec.Efraty, A. *et al*, *Inorg. Chem.*, 1974, **13**, 1269 (*synth*, *ir*, *pmr*, *mössbauer*)**C₃₀H₂₀Fe₂O₆P₂****Fe-02000**

Hexacarbonylbis[μ-(diphenylphosphino)]diiron, 9Cl
[19599-68-9]

As Hexacarbonylbis[μ-(dimethylphosphino)]diiron, Fe-00626 with

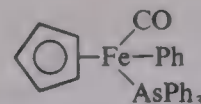


M 650.126

Yellow prisms or orange plates (C₆H₆/pet. ether). Mp 178-9°.Job, B.E. *et al*, *J. Chem. Soc., Chem. Commun.*, 1966, 895 (*synth*, *ms*, *ir*)Mais, R.H.B. *et al*, *J. Chem. Soc. (A)*, 1967, 1744 (*synth*, *ir*, *ms*)Brateman, P.S. *et al*, *J. Chem. Soc. (A)*, 1968, 1454 (*ir*)Gerlach, J.N. *et al*, *Inorg. Chem.*, 1976, **15**, 1232 (*synth*, *ir*)Collman, J.P. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 7381 (*synth*)**C₃₀H₂₅AsFeO****Fe-02001**

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)phenyl(triphenylarsine)iron, 9Cl

(η⁵-Cyclopentadienyl)carbonylphenyl(triphenylarsine)iron. σ-Phenyl-π-cyclopentadienylcarbonyl(triphenylarsine)iron. (η⁵-Cyclopentadienyl)(η¹-phenyl)carbonyl(triphenylarsine)iron
[60021-73-0]



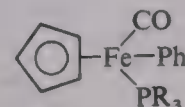
M 532.296

Characterised spectroscopically.

Ellis, J.E. *et al*, *J. Organomet. Chem.*, 1976, **111**, 331 (*synth*)**C₃₀H₂₅FeOP****Fe-02002**

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)phenyl(triphenylphosphine)iron, 9Cl

(η⁵-Cyclopentadienyl)carbonylphenyl(triphenylphosphine)iron. σ-Phenyl-π-cyclopentadienylcarbonyl(triphenylphosphine)iron
[12123-80-7]



R = Ph

M 488.348

Air-stable red cryst. Mp 166-166.5° dec. *ir* ν_{CO} 1935 cm⁻¹ (mull).Nesmeyanov, A.N. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1966, **166**, 1125 (*synth*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1970, **22**, 707; 1972, **37**, 159 (*synth*, *pmr*)Denisovich, L.I. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1971, 1964 (*polarog*)Ellis, J.E., *J. Organomet. Chem.*, 1976, **111**, 331 (*synth*)**C₃₀H₂₅FeO₄P****Fe-02003**

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)phenyl(triphenyl phosphite-P)iron, 9Cl

Carbonyl-π-cyclopentadienylphenyl(phosphorous acid)iron triphenyl ester, 8Cl. (η⁵-Cyclopentadienyl)carbonylphenyl(triphenyl phosphite)iron. σ-Phenyl-π-cyclopentadienyliron(triphenyl phosphite) carbonyl. (η¹-Phenyl)-(η⁵-cyclopentadienyl)carbonyl(triphenyl phosphite)iron
[12123-79-4]

As Carbonyl(η⁵-2,4-cyclopentadien-1-yl)-phenyl(triphenylphosphine)iron, Fe-02002 with

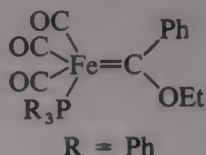


M 536.346

Yellow cryst. (heptane). Mp 144.5-145.5°. A reported *synth.* could not be repeated.

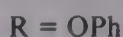
- Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1967, **9**, 345 (*synth*)
 Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1972, **37**, 159 (*nmr*)
 Stewart, R.P. *et al*, *Inorg. Chem.*, 1975, **14**, 2933.
 Stewart, R.P. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 3215 (*cmr*)

C₃₀H₂₅FeO₄P **Fe-02004**
Tricarbonyl(ethoxyphenylmethylene)(triphenylphosphine)iron, 9Cl
 [42947-52-4]



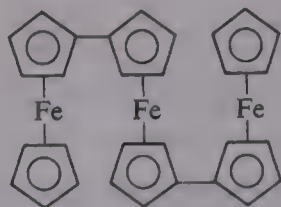
- M 536.346
 Red cryst. (hexane). Mp 124-6°.
 Darensbourg, D.J. *et al*, *Inorg. Chem.*, 1974, **13**, 374, 2135 (*ir*)
 Conder, H.L. *et al*, *Inorg. Chem.*, 1974, **13**, 506 (*synth, ir*)

C₃₀H₂₅FeO₇P **Fe-02005**
Tricarbonyl(ethoxyphenylmethylene)(triphenyl phosphite-P)iron, 9Cl
 [42947-53-5]
 As Tricarbonyl(ethoxyphenylmethylene)(triphenylphosphine)iron, Fe-02004 with



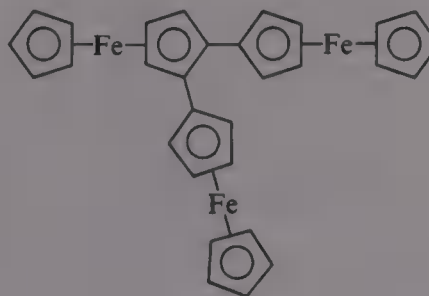
- M 584.344
 Red oil.
 Darensbourg, D.J. *et al*, *Inorg. Chem.*, 1974, **13**, 374.
 Conder, H.L. *et al*, *Inorg. Chem.*, 1974, **13**, 506 (*synth, ir*)

C₃₀H₂₆Fe₃ **Fe-02006**
1,1'':1''',1''''-Terferrocene, 9Cl
1,1'-Diferrocenylferrocene. 1,1'-Terferrocene
 [1273-59-2]



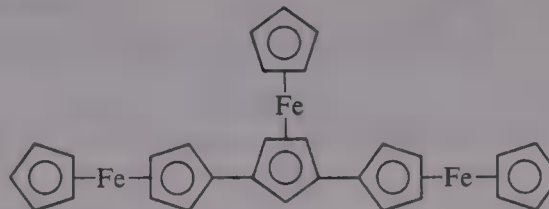
- M 554.076
 Yellow-orange needles (hexane/C₆H₆) or plates (xylene).
 Mp 228-9°. Polymorphic.
 Kaluskii, Z.L. *et al*, *Zh. Strukt. Khim.*, 1965, **6**, 316 (*struct*)
 Neuse, E.W. *et al*, *J. Organomet. Chem.*, 1967, **7**, 387 (*synth, uv*)
 Yavorskii, B.M. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1970, **192**, 350 (*ir*)
 Neuse, E.W., *J. Organomet. Chem.*, 1972, **40**, 387 (*synth, pmr*)
 Roling, P.V. *et al*, *J. Org. Chem.*, 1972, **37**, 729 (*synth, ms, pmr*)
 Izumi, T. *et al*, *Bull. Chem. Soc. Jpn.*, 1975, **48**, 1955 (*synth*)
 Davison, A. *et al*, *Synth. React. Inorg. Metal-Org. Chem.*, 1980, **10**, 391 (*synth*)

C₃₀H₂₆Fe₃ **Fe-02007**
1,1'':2'',1''''-Terferrocene, 9Cl
1,2-Diferrocenylferrocene
 [12504-91-5]



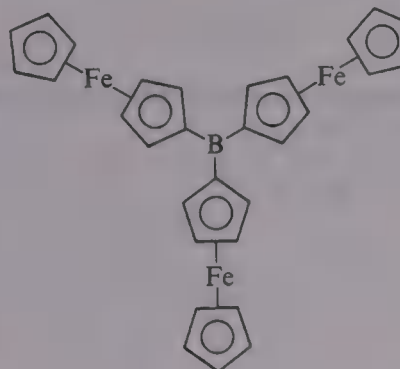
- M 554.076
 Orange needles (heptane or hexane) (at least four polymorphic forms). Mp 191-3°, 198-200°, 262-4°.
 Goldberg, S.I. *et al*, *J. Org. Chem.*, 1971, **36**, 1499 (*synth, ir, pmr, ms, uv*)
 Neuse, E.W. *et al*, *J. Organomet. Chem.*, 1972, **40**, 387 (*synth, pmr*)
 Roling, P.V. *et al*, *J. Organomet. Chem.*, 1977, **141**, 195 (*synth, ir, uv, ms*)

C₃₀H₂₆Fe₃ **Fe-02008**
1,1'':3'',1''''-Terferrocene, 9Cl
1,3-Diferrocenylferrocene. 1,3-Terferrocene
 [1317-18-6]



- M 554.076
 Orange-yellow needles (heptane). Mp 198-200°.
 Neuse, E.W., *J. Organomet. Chem.*, 1972, **40**, 387 (*synth, uv*)
 Neuse, E.W., *et al*, *J. Organomet. Chem.*, 1972, **43**, 385 (*synth, uv, ir, pmr, ms*)

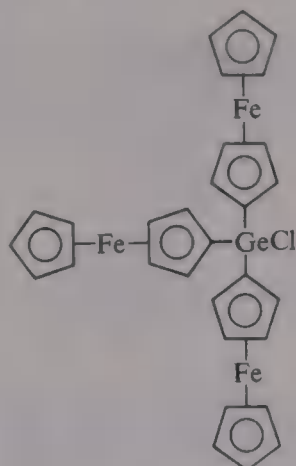
C₃₀H₂₇BFe₃ **Fe-02009**
Triferrocenylboron
1,1'',1''''-Borylidynetrisferrocene, 9Cl
 [12637-02-4]



- M 565.894
 Red cryst.
Ferrocene adduct (1:3): Red-orange cryst. (EtOH).
NH₃ adduct:
 C₃₀H₃₀BFe₃N M 582.925
 Yellow powder (C₆H₆/Et₂O). Mp 180-1° dec.
 Post, E.W. *et al*, *Inorg. Chem.*, 1970, **9**, 1670 (*synth*)
 Painter, W.J., *Diss. Abs. Int. B*, 1971, **31**, 6482 (*synth*)

C₃₀H₂₇ClFe₃Ge

Chlorotriferrocenylgermane
Triferrocenylgermyl chloride



M 663.127

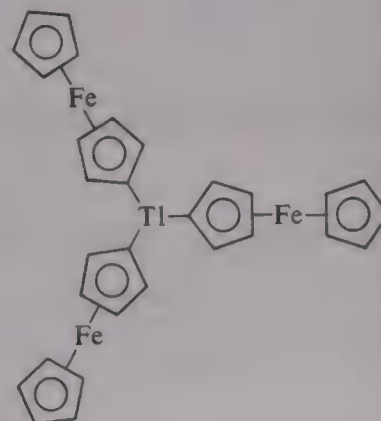
Golden plates (heptane). Mp 224-6° dec.

Sollott, G.P. *et al*, *J. Am. Chem. Soc.*, 1967, **89**, 6783 (*synth*)

Fe-02010

C₃₀H₂₇Fe₃Tl

Triferrocenylthallium
(Diferrocenylthallio)ferrocene, 9Cl
[57128-01-5]



M 759.467

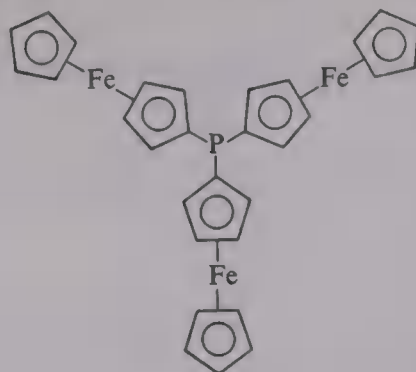
Orange cryst., stable in air. Slowly hydrol. in soln. Sl. sol. org. solvs. Mp 205-8° dec.

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1975, 1667 (*synth*)

Fe-02012

C₃₀H₂₇Fe₃P

Triferrocenylphosphine
1,1'',1'''-Phosphinidynetrisferrocene, 9Cl
[1292-82-6]



M 586.058

Yellow cryst. (C₆H₆/pet. ether). Mp 271-3°.

Oxide:

C₃₀H₂₇Fe₃OP M 602.057Infusible light-yellow powder (C₆H₆/pet. ether).
Forms hydrates readily.

Sulfide:

C₃₀H₂₇Fe₃PS M 618.118

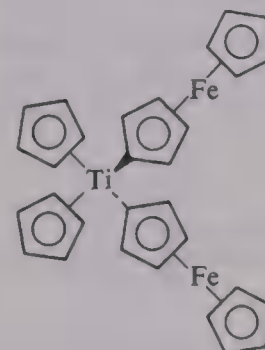
Mp 291-3° dec.

Sollott, G.P. *et al*, *J. Org. Chem.*, 1962, **27**, 4034; *J. Organomet. Chem.*, 1965, **4**, 491 (*synth*)Nesmeyanov, A.N. *et al*, *Zh. Strukt. Khim.*, 1973, **14**, 49 (*cmr*)

Fe-02011

C₃₀H₂₈Fe₂Ti

Bis(η⁵-2,4-cyclopentadien-1-yl)diferrocenyltitanium
Diferrocenyldicyclopentadienyltitanium. Di-π-cyclopentadienyl-di-σ-ferrocenyltitanium
[65274-19-3]



M 548.125

Deep-green cryst. Solns. are air-sensitive.

Razuvaev, G.A. *et al*, *J. Organomet. Chem.*, 1977, **141**, 313 (*synth*)Osborne, A.G. *et al*, *J. Organomet. Chem.*, 1979, **181**, 425.Kotz, J.C. *et al*, *Organometallics*, 1983, **2**, 68 (*props*)

Fe-02013

C₃₀H₂₈Fe₃OSi

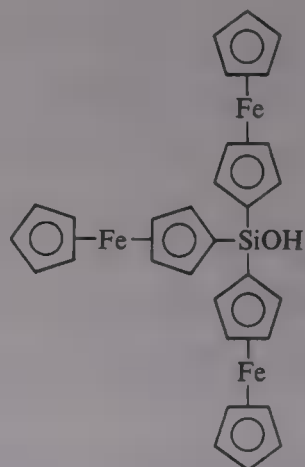
Fe-02014

Triferrocenylsilanol

1,1'',1'''-(Hydroxysilylidyne)trisferrocene, 9Cl.

Triferrocenylhydroxysilane

[12309-62-5]



M 600.177

Orange-brown needles (heptane). Mp 193.5-195°.

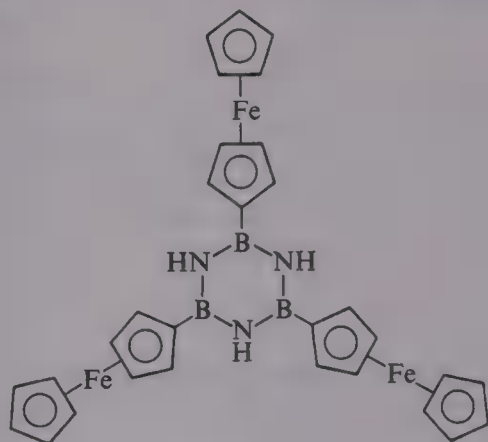
Sollott, G.P. *et al*, *J. Am. Chem. Soc.*, 1967, **89**, 6783 (*synth*)C₃₀H₃₀B₃Fe₃N₃

Fe-02015

2,4,6-Triferrocenylborazine

1,1'',1'''-(2,4,6-Borazinetriyl)trisferrocene, 9Cl

[11136-43-9]



M 632.558

Orange cryst. (toluene). Mp 259°.

Painter, W.J., *Diss. Abs. Int. B*, 1971, **31**, 6520 (*synth*)Kotz, J.C. *et al*, *J. Organomet. Chem.*, 1971, **32**, 231 (*synth*, *ms*, *pmr*, *uv*, *ir*)C₃₀H₃₄Fe

Fe-02016

Bis[(1,2,3,4,5-η)-1,3,5-trimethyl-6-phenyl-2,4-cyclohexadien-1-yl]iron

[33435-36-8]

As Bis-[(1,2,3,4,5-η)-6-*tert*-butyl-1,3,5-trimethyl-2,4-cyclohexadien-1-yl]iron, Fe-01945 with

R = Ph

M 450.446

A fluxional molecule.

exo,exo-form

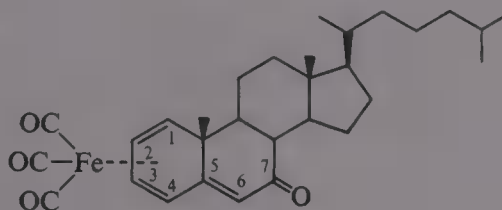
Air-stable orange cryst. Mp 102-5°.

Helling, J.F. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 7207, 7208 (*synth*, *pmr*)C₃₀H₄₀FeO₄

Fe-02017

Tricarbonyl(1,3,5-cholestatrien-7-one)iron

[12291-06-4]



M 520.491

Yellow prisms (Me₂CO). Mp 180-2° dec. [α]_D +15° (c, 0.9 in CHCl₃).Connolly, J.P. *et al*, *J. Chem. Soc. (C)*, 1967, 1773 (*synth*, *pmr*, *ir*)C₃₀H₄₂FeO₃

Fe-02018

Tricarbonyl[(1,2,3,4-η)-1,3,5-cholestatriene]iron, 9Cl

[41626-55-5]

M 506.507

Yellow cryst. Mp 145-7°. Fe(CO)₃ group α- to steroid nucleus.Alper, H. *et al*, *J. Organomet. Chem.*, 1973, **50**, 213 (*synth*, *ir*, *pmr*, *uv*, *ms*)C₃₀H₄₂FeO₄

Fe-02019

Tricarbonyl(1,4-cholestadien-3-one)iron

M 522.506

Brown-green cryst. (hexane). Mp 80-1°.

Alper, H. *et al*, *J. Organomet. Chem.*, 1969, **16**, 342 (*synth*, *ir*, *uv*)C₃₀H₄₄FeO₃

Fe-02020

Tricarbonyl[(1,2,3,4-η)-1,3-cholestadiene]iron, 9Cl

[41649-75-6]

M 508.523

5α-form [41649-75-6]

Yellow cryst. (EtOH). Mp 111-3°. Fe(CO)₃ group α- to steroid nucleus.Alper, H. *et al*, *J. Organomet. Chem.*, 1973, **50**, 213 (*synth*, *ir*, *pmr*, *uv*, *ms*)C₃₀H₄₄FeO₃

Fe-02021

Tricarbonyl[(2,3,4,5-η)-2,4-cholestadiene]iron, 9Cl

[41626-54-4]

M 508.523

Yellow-orange cryst. (Me₂CO). Mp 48-59°. Fe(CO)₃ group α- to steroid nucleus.Alper, H. *et al*, *J. Organomet. Chem.*, 1968, **14**, 411; 1973, **50**, 213 (*synth*, *ir*, *pmr*, *uv*)C₃₀H₄₄FeO₄

Fe-02022

Tricarbonyl(5,7-cholestadien-3-ol)iron, 8Cl

M 524.522

3β-form

Yellow-orange cryst. Mp 49-51°. Fe(CO)₃ group α- to steroid nucleus.Alper, H. *et al*, *J. Organomet. Chem.*, 1968, **14**, 411 (*synth*, *ir*, *pmr*, *uv*)

C₃₀H₅₀Fe**Fe-02023****Decaethylferrocene***Bis*(1,2,3,4,5-pentaethyl- π -cyclopentadienyl)iron

[64539-05-5]

As Decamethylferrocene, Fe-01693 with

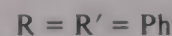


M 466.572

Mp 210–30° dec.

Schlögl, K. *et al*, *Monatsh. Chem.*, 1962, **93**, 1328 (*synth*)

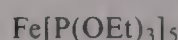
[37048-10-5]

As Tricarbonyl[(2,3,4,5- η)-thiophene 1,1-dioxide]iron, Fe-00164 with

M 560.403

Yellow needles (CHCl₃/EtOH) or square leaves. Spar. sol. pet. ether. Mp 232–3°.Weiss, E. *et al*, *J. Inorg. Nucl. Chem.*, 1959, **11**, 42 (*synth*, *ir*, *uv*)Chow, Y.L. *et al*, *J. Chem. Soc., Chem. Commun.*, 1972, 501 (*synth*)**C₃₀H₇₅FeO₁₅P₅****Fe-02024****Pentakis(triethyl phosphite-*P*)iron, η Cl***Pentakis*(phosphorous acid)iron pentadecaethyl ester

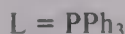
[54926-72-6]



M 886.629

Stereochemically nonrigid. Yellow cryst. (Me₂CO). Mp 150–2°.English, A.D. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 117 (*synth*, *nmr*)**C₃₁H₂₀F₅FeO₂P****Fe-02025****Dicarbonyl[5-(pentafluorophenyl)-1,3-cyclopentadiene](triphenylphosphine)iron***Dicarbonyl*[1-[(2,3,4,5- η)-2,4-cyclopentadien-1-yl](2,3,4,5,6-pentafluorobenzene)](triphenylphosphine)iron

As Tricarbonyl[(5-pentafluorophenyl)-1,3-cyclopentadiene]iron, Fe-01138 with



M 606.311

exo-form

Yellow cryst. (hexane). Mp 132.5–134°.

Treichel, P.M. *et al*, *Inorg. Chem.*, 1967, **6**, 1328 (*synth*, *pmr*, *ir*)**C₃₁H₂₀FeO₃****Fe-02026****Tricarbonyl(1,2,3,4-tetraphenyl-1,3-cyclobutadiene)iron, η Cl***Tricarbonyl*[1,1',1'',1'''-(η^4 -1,3-cyclobutadiene-1,2,3,4-tetrayl)tetrakis(benzene)]iron, η Cl. (Tetraphenylcyclobutadiene)iron tricarbonyl. Tricarbonylbis(diphenylacetylene)iron (*incorr.*)

[31811-56-0]

As Tricarbonyl(η^4 -1,2,3,4-tetraiodo-1,3-cyclobutadiene)-iron, Fe-00145 with

M 496.344

Bright-yellow cryst. (cyclohexane). Mp 234°.

Hübel, W. *et al*, *J. Inorg. Nucl. Chem.*, 1959, **10**, 250 (*synth*, *ir*)Maitlis, P.M. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 1887 (*synth*)Dodge, R.P. *et al*, *Acta Crystallogr.*, 1965, **18**, 614 (*cryst struct*)King, R.B., *Org. Mass Spectrom.*, 1970, **3**, 1233 (*ms*)**C₃₁H₂₀FeO₅S****Fe-02027****Tricarbonyl[(2,3,4,5- η)-tetraphenylthiophene 1,1'-dioxide]-iron, η Cl**

(Tetraphenylthiophene 1,1-dioxide)iron tricarbonyl

C₃₁H₂₀Fe₂Ge₂O₇**Fe-02028** **μ -Carbonylhexacarbonylbis[μ -(diphenylgermylene)]diiron, η Cl***Heptacarbonylbis*(diphenylgermylene)diiron

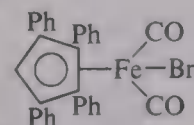
[26201-18-3]

As

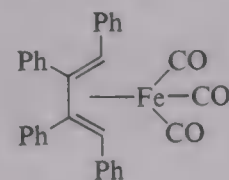
 μ -Carbonylhexacarbonylbis[μ -(dimethylgermylene)]diiron Fe-00762 with

M 761.369

Red-black prisms.

Elder, M., *Inorg. Chem.*, 1969, **8**, 2703 (*struct*)**C₃₁H₂₁BrFeO₂****Fe-02029****Bromodicarbonyl[(1,2,3,4,5- η)-1,2,3,4-tetraphenyl-2,4-cyclopentadien-1-yl]iron**

M 561.257

Dark-red prisms (CH₂Cl₂/pet. ether). Mp 175–7° dec.McVey, S. *et al*, *J. Chem. Soc.*, 1965, 4312 (*synth*, *ir*)**C₃₁H₂₂FeO₃****Fe-02030****(1,2,3,4-Tetraphenyl-1,3-butadiene)tricarbonyliron**[1,1',1'',1'''-(η^4 -1,3-Butadiene-1,2,3,4-tetrayl)tetrakis(benzene)]tricarbonyliron

M 498.360

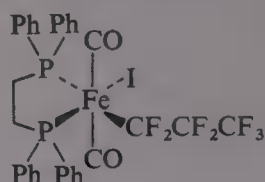
syn,syn-formYellow cryst. (MeOH/Me₂CO). Mp 228–31° dec.Green, M.L.H. *et al*, *J. Chem. Soc.*, 1959, 3753 (*pmr*)Schrauzer, G.N., *J. Am. Chem. Soc.*, 1959, **81**, 5307 (*synth*, *ir*)

C₃₁H₂₄F₇FeIO₂P₂

Fe-02031

Dicarbonyl[ethylenebis(diphenylphosphine)](heptafluoropropyl)iodoiron, 8Cl

[23606-88-4]



M 806.217

Pink cryst. (CH₂Cl₂/hexane). Mp 115-9°.King, R.B. *et al*, *J. Inorg. Nucl. Chem.*, 1969, **31**, 2179 (*synth*, *ir*, *pmr*)C₃₁H₂₆FeOP[⊕]

Fe-02032

Benzylidenecarbonyl(η⁵-cyclopentadienyl)(triphenylphosphine)iron(1+)Carbonyl(η⁵-2,4-cyclopentadien-1-yl)(phenylmethylene)(triphenylphosphine)iron(1+), 10ClAs Carbonyl(η⁵-2,4-cyclopentadien-1-yl)-(methoxymethylene)(triphenylphosphine)iron(1+), Fe-01935 with

X = Ph

M 501.367 (ion)

Hexafluorophosphate: [64494-47-9].

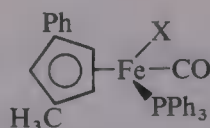
C₃₁H₂₆F₆FeOP₂ M 646.331

Maroon solid.

Brookhart, M. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 6099 (*synth*, *ir*, *pmr*, *cmr*)C₃₁H₂₇FeIOP

Fe-02033

Carbonyliodo[(1,2,3,4,5-η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl](triphenylphosphine)iron

(η⁵-1-Methyl-3-phenylcyclopentadienyl)carbonyliodo-(triphenylphosphine)iron

X = I

M 629.279

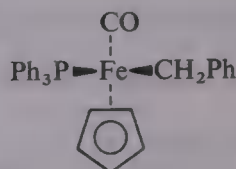
Obt. as a 1:1 mixt. of diastereomers. Black cryst. (C₆H₆/pentane). Mp 167°.Attig, T.G. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 619 (*struct*, *synth*, *ir*, *pmr*)C₃₁H₂₇FeOP

Fe-02034

Benzylcarbonyl-π-cyclopentadienyl(triphenylphosphine)iron, 8Cl

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)(phenylmethyl)-(triphenylphosphine)iron, 9Cl. (η⁵-Cyclopentadienyl)carbonyl(triphenylphosphine)benzyliron. σ-Benzyl-π-cyclopentadienylcarbonyl(triphenylphosphine)iron

[33135-99-8]



(–)-form

M 502.374

(–)-form [56907-99-4]

Orange cryst. Mp 79-83°. [α]_D²⁵ –165° (c, 0.1 in C₆H₆).

Chirality (S) acc. to Stanley and Baird convention.

(±)-form

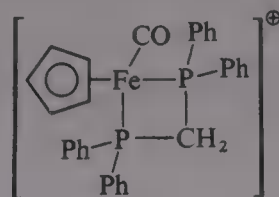
Red cryst. (hexane). Mp 135-7° (130°).

Faller, J.W. *et al*, *J. Am. Chem. Soc.*, 1969, **91**, 1550 (*pmr*)Graziani, M. *et al*, *Inorg. Chim. Acta*, 1970, **4**, 347 (*synth*)Flood, T.C. *et al*, *Inorg. Chem.*, 1976, **15**, 1910 (*synth*, *resoln*)C₃₁H₂₇FeOP₂[⊕]

Fe-02035

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)[methylenebis(diphenylphosphine)-P, P']iron(1+), 9Cl(η⁵-Cyclopentadienyl)carbonyl[methylenebis(diphenylphosphine)]iron(1+). [1,2-Bis(diphenylphosphino)-methane]carbonyliron(1+)

[41617-77-0]



M 533.348 (ion)

Hexafluorophosphate: [61761-42-0].

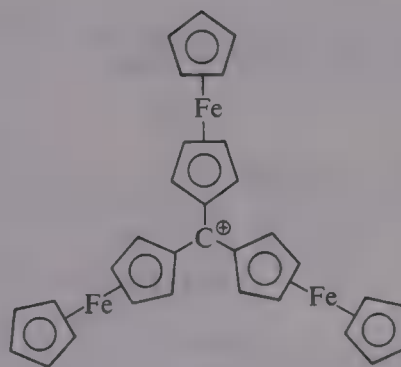
C₃₁H₂₇F₆FeOP₃ M 678.312Orange-yellow cryst. (CH₂Cl₂/pet. ether).Brown, M.L. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 8707 (*synth*, *ir*, *pmr*)Isaacs, E.E. *et al*, *J. Organomet. Chem.*, 1976, **120**, 407 (*synth*, *ir*, *pmr*)Davies, S.G., *J. Organomet. Chem.*, 1979, **179**, C5 (*synth*)English, R.B. *et al*, *Acta Crystallogr., Sect. B*, 1979, **35**, 954 (*cryst struct*)C₃₁H₂₇Fe₃[⊕]

Fe-02036

Triferrocenylmethylum(1+), 9Cl

Triferrocenylmethylcarbonium(1+)

[12296-43-4]



M 567.095 (ion)

Perchlorate: [12194-46-6].

C₃₁H₂₇ClFe₃O₄ M 666.546

Catalytic oxidiser in propellants. Green solid. Sol.

CH₂Cl₂, spar. sol. MeOH, CHCl₃, insol. Et₂O, CCl₄, H₂O.

▷ Explodes when heated

Hydrodichloride: [39366-61-5].

C₃₁H₂₈Cl₂Fe₃ M 639.009Dark-green solid. Insol. THF, Et₂O.Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1966, 556, 558; 1973, 142 (*synth*, *pmr*)Tirouflet, J. *et al*, *J. Organomet. Chem.*, 1973, **50**, 241 (*polarog*, *uv*)

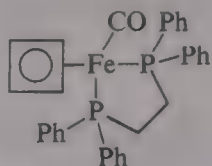
C₃₁H₂₈FeOP₂

Fe-02037

Carbonyl(η⁴-1,3-cyclobutadiene)(1,2-ethanediylbis[diphenylphosphine]-P,P')iron, 10Cl

Carbonyl(cyclobutadiene)[1,2-bis(diphenylphosphine)ethane]iron

[72318-19-5]



M 534.356

Yellow plates.

Davis, R.E., *Inorg. Chem.*, 1980, **19**, 674 (*struct*)C₃₁H₂₈Fe₃O

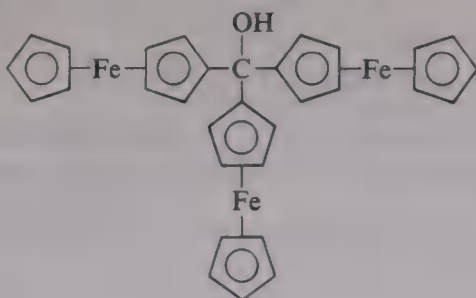
Fe-02038

Triferrocenylmethanol

1,1'',1'''-(Hydroxymethyldiyne)trisferrocene, 9Cl.

Triferrocenylcarbinol

[39358-32-2]



M 584.103

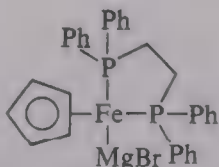
Yellow cryst. (cyclohexane). Mp 160-2° (204-5°).

Nesmeyanov, A.N. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1962, 2241 (*pmr*, *synth*)Pauson, P.L. *et al.*, *J. Chem. Soc.*, 1962, 3880 (*synth*)C₃₁H₂₉BrFeMgP₂

Fe-02039

(Bromomagnesium)(η⁵-2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-P,P']iron

[64424-45-9]



M 623.574

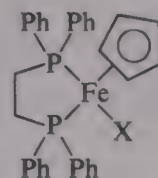
Red cryst. + 3THF (THF).

Felkin, H. *et al.*, *J. Chem. Soc., Chem. Commun.*, 1974, 44 (*struct*)Felkin, H. *et al.*, *J. Organomet. Chem.*, 1978, **146**, 151 (*synth*, *pmr*, *ir*, *props*)C₃₁H₂₉BrFeP₂

Fe-02040

Bromo(η⁵-2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-P,P']iron, 9ClBromo-π-cyclopentadienyl[ethylenebis[diphenylphosphine]]iron, 8Cl. [1,2-Bis(diphenylphosphine)ethane]-bromo(η⁵-cyclopentadienyl)iron

[32843-50-8]

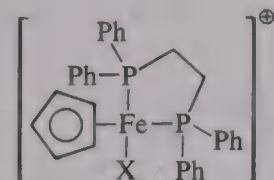


X = Br

M 599.269

Black cryst. (CH₂Cl₂/hexane). Mp 207-15°.King, R.B. *et al.*, *Inorg. Chem.*, 1969, **8**, 1042 (*synth*, *pmr*)Treichel, P.M. *et al.*, *J. Organomet. Chem.*, 1975, **86**, C13.C₃₁H₂₉BrFeP₂[⊕]

Fe-02041

Bromo(η⁵-2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-P,P']iron(1+), 9Cl[1,2-Bis(diphenylphosphino)ethane]bromo(η⁵-cyclopentadienyl)iron

X = Br

M 599.269 (ion)

Hexafluorophosphate: [56009-58-6].

C₃₁H₂₉BrF₆FeP₃ M 744.233Red-brown prisms (CH₂Cl₂/Et₂O). Mp 188-9°.Treichel, P.M. *et al.*, *J. Organomet. Chem.*, 1979, **174**, 191 (*synth*)C₃₁H₂₉ClFeP₂

Fe-02042

Chloro(η⁵-2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-P,P']iron, 9ClChloro-π-cyclopentadienyl[ethylenebis[diphenylphosphine]]iron, 8Cl. [1,2-Bis(diphenylphosphino)ethane]-chloro(η⁵-cyclopentadienyl)iron

[32843-51-9]

As Bromo(η⁵-2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-P,P']iron, Fe-02040 with

X = Cl

M 554.818

Black cryst. (CH₂Cl₂/hexane). Mp 177-8°.King, R.B. *et al.*, *Inorg. Chem.*, 1969, **8**, 1042 (*synth*, *pmr*)Mays, M.J. *et al.*, *J. Chem. Soc., Dalton Trans.*, 1973, 1873 (*synth*, *mössbauer*)Treichel, P.M. *et al.*, *J. Organomet. Chem.*, 1975, **86**, C13.Adams, R.D. *et al.*, *J. Am. Chem. Soc.*, 1979, **101**, 7232 (*synth*)C₃₁H₂₉ClFeP₂[⊕]

Fe-02043

Chloro(η⁵-2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-P,P']iron(1+), 9Cl[1,2-Bis(diphenylphosphino)ethane]chloro(η⁵-cyclopentadienyl)iron(1+)As Bromo(η⁵-2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-P,P']iron(1+), Fe-02041 with

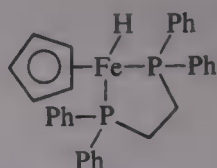
X = Cl

M 554.818 (ion)

Hexafluorophosphate: [56009-64-4].

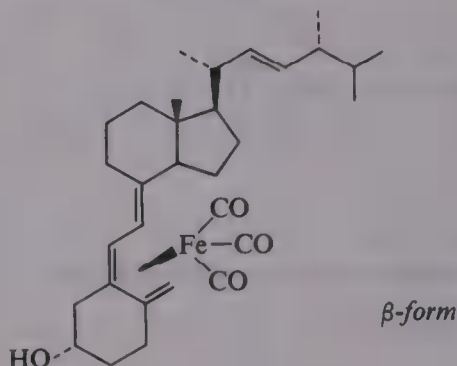
C₃₁H₂₉ClF₆FeP₃ M 699.782Orange-red prisms (CH₂Cl₂/Et₂O). Mp 175-7°.Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1979, **174**, 191 (synth)**C₃₁H₃₀FeP₂****Fe-02044****(η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)]-P,P'**hydroiron[1,2-Bis(diphenylphosphino)ethane](η^5 -cyclopentadienyl)hydroiron

[51509-20-7]



M 520.373

Air-sensitive yellow cryst. (hexane).

Mays, M.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1873 (synth)Felkin, H. *et al*, *J. Organomet. Chem.*, 1978, **146**, 151 (synth, pmr, ir)**C₃₁H₄₄FeO₄****Fe-02045****(Calciferol)tricarbonyliron**Tricarbonyl[(5,6,10,19- η)-9,10-secoergosta-5,7,10(19),22-tetraen-3-ol]iron, 9Cl

M 536.533

Two isomers known, differing in config. of the Fe(CO)₃ group. **α -form** [59949-35-8]Cryst. (pet. ether). Mp 134°. [α]_D +501° (c, 0.58 in EtOH).

Benzoyl: [59949-36-9].

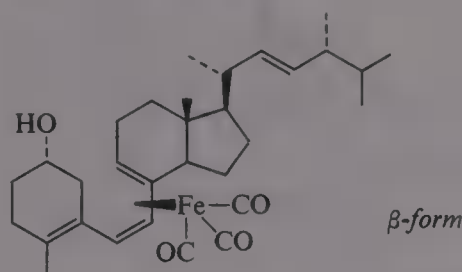
C₃₈H₄₈FeO₅ M 640.641

Cryst. (MeOH). Mp 43-5°.

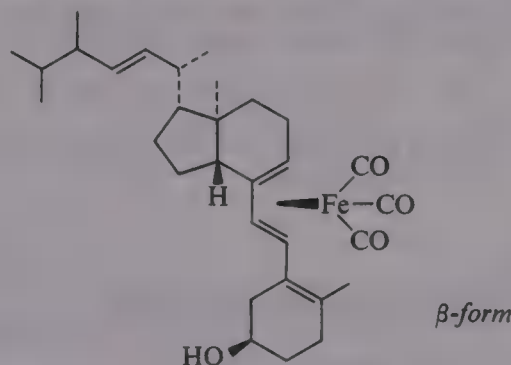
3-Ketone: [60029-43-8]. (Calciferone)tricarbonyliron.

C₃₁H₄₂FeO₄ M 534.517Cryst. (MeOH). Mp 124-7°. [α]_D +477° (c, 0.5 in EtOH). **β -form** [60159-02-6]Cryst. (pet. ether). Mp 152°. [α]_D -394° (c, 0.574 in EtOH).

Benzoyl: [59981-59-8]. Oil.

Barton, D.H.R. *et al*, *J. Chem. Soc., Perkin Trans. I*, 1976, 829 (synth, ir, pmr, uv, ms)**C₃₁H₄₄FeO₄****Fe-02046****Tricarbonyl(precalciferol₂)iron**Tricarbonyl[(6,7,8,9- η)-9,10-secoergosta-5(10),6,8,22-tetraen-3-ol]iron, 10Cl

M 536.533

Isol. as a mixture of α - and β -forms differing in config. of Fe(CO)₃ group. Orange oil. [α]_D -17° (c, 0.63 in CHCl₃). **α -form**3,5-Dinitrobenzoyl: [69308-25-4]. Orange oil. [α]_D +68° (c, 1.176 in CHCl₃). **β -form**3,5-Dinitrobenzoyl: [69308-26-5]. Orange oil. [α]_D -106° (c, 0.903 in CHCl₃).Barrett, A.G.M. *et al*, *J. Chem. Soc., Perkin Trans. I*, 1978, 1014 (synth, ir, uv, pmr, ms)**C₃₁H₄₄FeO₄****Fe-02047****Tricarbonyl(tachysterol₂)iron**Tricarbonyl[(6,7,8,9- η)-9,10-secoergosta-5(10),6,8,22-tetraen-3-ol]iron, 10Cl

M 536.533

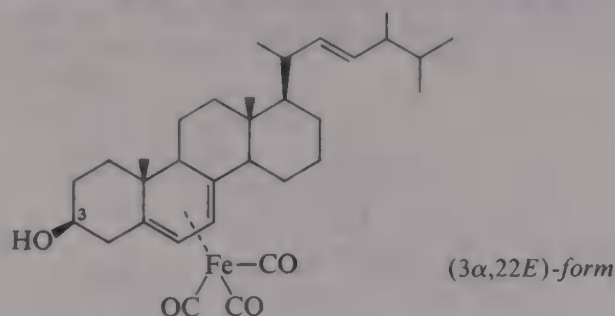
Isol. as a mixt. of α - and β -forms differing in config. of Fe(CO)₃ group. Orange oil. [α]_D -40° (c, 0.77 in CHCl₃). **α -form** [69308-29-8]

Benzoyl: [69258-33-9].

C₃₈H₄₈FeO₅ M 640.641Light-orange oil. [α]_D -38° (c, 0.34 in CHCl₃).3,5-Dinitrobenzoyl: [69258-32-8]. Orange-brown cryst. (pet. ether). Mp 124-30° dec. [α]_D -72° (c, 0.44 in CHCl₃). **β -form** [69350-85-2]Benzoyl: [69308-27-6]. Dark-orange oil. [α]_D +21° (c, 0.21 in CHCl₃).3,5-Dinitrobenzoyl: [69308-24-3]. Oil. [α]_D +29.3° (c, 1.13 in CHCl₃).Barrett, A.G.M. *et al*, *J. Chem. Soc., Perkin Trans. I*, 1978, 1014 (synth, ir, uv, pmr, ms)

C₃₁H₄₆FeO₄

Fe-02048

Tricarbonyl[(5,6,7,8- η)-5,7,22-ergostatien-3-ol]iron

M 538.549

(3 α ,22E)-form [59949-34-7]

Tricarbonyl(epi ergosterol)iron

Cryst. (pet. ether). Mp 120°. [α]_D –137° (c, 0.85 in EtOH). Less polar than 3 β -form.(3 β ,22E)-form [60018-41-9]Air-sensitive yellow-brown cryst. (Me₂CO). Mp 70-1°.

Ac: [12243-53-7].

C₃₃H₄₆FeO₅ M 578.570

Yellow cryst. (MeOH). Mp 94-5°.

Benzoyl: [59975-72-3].

C₃₈H₄₈FeO₅ M 640.641

Bright-yellow needles (MeOH/EtOAc). Mp 163-5°.

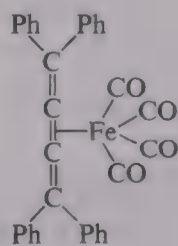
[α]_D –67.9° (c, 1.2 in CHCl₃).3-Ketone: [59949-33-6]. Tricarbonyl[(5,6,7,8- η)-5,7,22E-ergostatien-3-one]iron.C₃₁H₄₂FeO₄ M 534.517Cryst. (Et₂O/pet. ether). Mp 145-7° dec. [α]_D –77° (c, 0.57 in CHCl₃).Nakamura, A. *et al*, *J. Med. Chem.*, 1963, **6**, 796 (*synth*, *ir*, *uv*)Alper, H. *et al*, *J. Organomet. Chem.*, 1968, **14**, 411 (*synth*, *ir*, *pmr*, *uv*)Evans, G. *et al*, *J. Organomet. Chem.*, 1975, **102**, 507 (*synth*, *ms*, *pmr*)Barton, D.H.R. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1976, 821, 829 (*synth*, *ir*, *pmr*, *uv*, *ms*)C₃₂H₂₀FeO₄

Fe-02049

Tetracarbonyl(tetraphenylbutatriene)iron, 8Cl

[1,1',1'',1'''-(2,3- η)-1,2,3-Butatriene-1,4-diylidene]tetraakis[benzene]]tetracarbonyliron, 10Cl

[12204-67-0]



M 524.355

Golden-yellow cryst. (CH₂Cl₂/hexane). Mp 145-7° dec.Joshi, K.K., *J. Chem. Soc. (A)*, 1966, 598 (*synth*, *ir*)Bright, D. *et al*, *J. Chem. Soc. (A)*, 1971, 1979 (*struct*)

Handle all chemicals with care

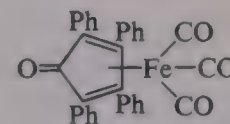
C₃₂H₂₀FeO₄

Fe-02050

Tricarbonyl[(2,3,4,5- η)-2,3,4,5-tetraphenyl-2,4-cyclopentadien-1-one]iron, 9Cl

(Tetracyclone)iron tricarbonyl. (Tetraphenylcyclopentadienone)iron tricarbonyl

[33504-08-4]



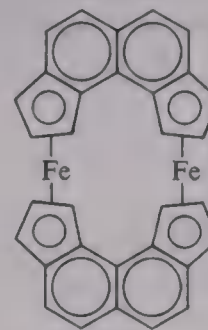
M 524.355

Yellow cryst. (C₆H₆/pet. ether or MeOH). Mp ca. 180° dec.Weiss, E. *et al*, *J. Inorg. Nucl. Chem.*, 1959, **11**, 42 (*synth*, *ir*)Kruczynski, L. *et al*, *Inorg. Chem.*, 1976, **15**, 3140 (*cmr*)C₃₂H₂₀Fe₂

Fe-02051

Bis[μ -(1,2,3,3a,10c- η :7a,8,9,10,10a- η -dicyclopenta[a,h-naphthalene]]diiron, 10Cl

[71637-01-9]



M 516.204

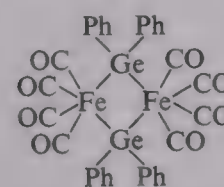
Intractable brown powder (THF/hexane).

Katz, T.J. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 4259 (*synth*, *ir*, *ms*)C₃₂H₂₀Fe₂Ge₂O₈

Fe-02052

Octacarbonylbis[μ -(diphenylgermylene)]diiron

[41484-02-0]



M 789.379

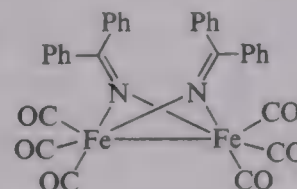
No phys. props. reported.

Marks, T.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 769 (*synth*, *ir*)C₃₂H₂₀Fe₂N₂O₆

Fe-02053

Hexacarbonylbis[μ -(1,1-diphenylmethyleniminato)]diiron, 8Cl

[33873-66-4]



M 640.214

Yellow-orange cryst. (hexane). Mp 136-8°. The struct. determination is on the 4-Me analogue.

Bright, D. *et al*, *J. Chem. Soc., Chem. Commun.*, 1967, 245

(struct)

Kilner, M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 1620

(synth, ir, mössbauer)

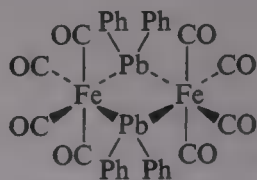
C₃₂H₂₀Fe₂O₈Pb₂

Fe-02054

Octacarbonylbis[μ-(diphenylplumbylene)]diiron, 9Cl

Bis(diphenylplumbanediyl)bis[tetracarbonyliron]

[41484-04-2]



M 1058.599

Orange-red cryst. (toluene/hexane or CH₂Cl₂/hexane).

Mp 152° dec., 224°. Dissociates in donor solvs.

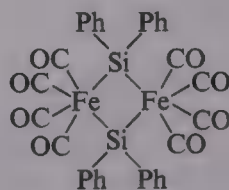
Hein, F. *et al*, *Z. Anorg. Allg. Chem.*, 1941, **248**, 84 (synth)Hein, F. *et al*, *Justus Liebigs Ann. Chem.*, 1965, **684**, 4 (synth)Marks, T.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 769 (synth, props)C₃₂H₂₀Fe₂O₈Si₂

Fe-02055

Octacarbonylbis[μ-(diphenylsilylene)]diiron

Octacarbonylbis(μ-diphenylsilanediyl)diiron

[74909-84-5]



M 700.370

Yellow-orange cryst. Mp 151-4°.

Corriu, R.J.P. *et al*, *J. Chem. Soc., Chem. Commun.*, 1980, 278

(synth)

Carre, F.H. *et al*, *Inorg. Chem.*, 1982, **21**, 3099 (synth, ir, ms)C₃₂H₂₀Fe₂O₈Sn₂

Fe-02056

Octacarbonylbis[μ-(diphenylstannylene)]diiron, 9Cl

[29889-95-0]

As Octacarbonylbis[μ-(dimethylstannylene)]diiron, Fe-00917 with

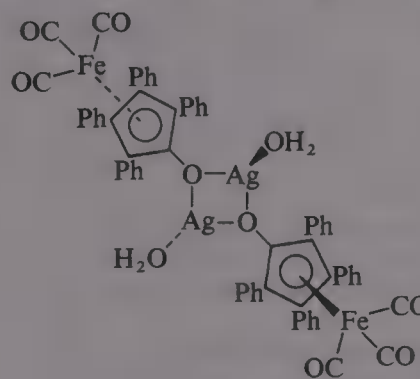
R = Ph

M 881.579

Lemon-yellow plates (hexane/C₆H₆).Hein, F. *et al*, *Justus Liebigs Ann. Chem.*, 1965, **684**, 4 (synth)Cotton, J.D. *et al*, *J. Chem. Soc. (A)*, 1967, 264 (ir)Marks, T.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 769 (synth, ir)C₃₂H₂₁FeO₄[⊕]

Fe-02057

Tricarbonyl[(1,2,3,4,5-η)-1-hydroxy-2,3,4,5-tetraphenyl-2,4-cyclopentadien-1-yl]iron(1+), 10Cl



Dimeric Ag salt dihydrate

M 525.363 (ion)

Dimeric Ag salt, bis(hexafluorophosphate): [76046-99-6].

C₆₄H₄₀Ag₂F₁₂FeO₈P₂ M 1498.527Yellow cryst. +2H₂O(CH₂Cl₂/hexane), mod. light-sensitive. Sol. CH₂Cl₂, Me₂CO. Air-stable in solid state, mod. air-sensitive in soln.Baker, P.K. *et al*, *J. Chem. Soc., Dalton Trans.*, 1980, 1710

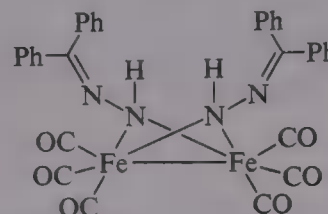
(synth, cryst struct, ir, pmr)

C₃₂H₂₂Fe₂N₄O₆

Fe-02058

Bis(μ-benzophenone hydrazone)hexacarbonyldiiron, 8Cl

[21157-92-6]



M 670.243

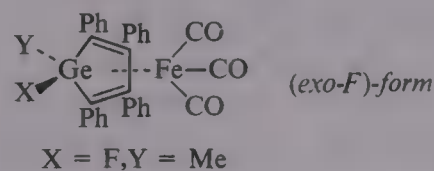
Orange cryst. Mp 167°.

Bagga, M.M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1967, 1106 (synth, ir, pmr, struct)C₃₂H₂₃FFeGeO₃

Fe-02059

Tricarbonyl[(2,3,4,5-η)-1-fluoro-1-methyl-2,3,4,5-tetraphenyl-1H-germole]iron, 10Cl

[73770-98-6]



X = F, Y = Me

M 602.967

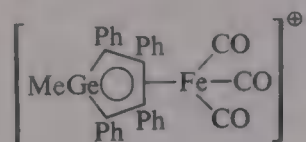
(exo-F)-form [79199-46-5]

Yellow cryst. (cyclohexane). Mp 218°.

Jutzi, P. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1980, **19**, 484 (synth)Jutzi, P. *et al*, *J. Organomet. Chem.*, 1981, **215**, 27 (synth, pmr, cmr, nmr, struct, ir, ms, mössbauer)

C₃₂H₂₃FeGeO₃[⊕]

Fe-02060

Tricarbonyl[(1,2,3,4,5- η)-1-methyl-2,3,4,5-tetraphenyl-1H-germol-1-yl]iron(1+), 10Cl

M 583.969 (ion)

Hexafluoroantimonate: [73771-01-4].

C₃₂H₂₃F₆FeGeO₃P M 728.933

Thermolabile yellow amorph. solid, v. sensitive to hydrolysis.

Tetrafluoroborate: [73771-00-3].

C₃₂H₃₃BF₄FeGeO₃ M 680.852

Heat- and moisture-sensitive yellow solid.

Jutzi, P. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1980, **19**, 484

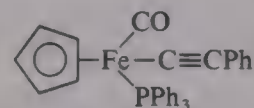
(synth, ir, pmr, cmr, mössbauer)

Red cryst. (C₆H₆/MeOH). Spar. sol. org. solvs. Mp 230°.De Lauzon, G. *et al*, *J. Organomet. Chem.*, 1978, **156**, C33 (synth, pmr)De Lauzon, G. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 994 (synth)C₃₂H₂₅FeOP

Fe-02064

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)(phenylethynyl)(tri-phenylphosphine)iron

[12313-22-3]



M 512.370

Brown cryst. Mp 194-6° dec.

Green, M.L.H. *et al*, *J. Organomet. Chem.*, 1968, **12**, 404 (synth, ir, pmr)C₃₂H₂₄FeGeO₃

Fe-02061

Tricarbonyl[(2,3,4,5- η)-1-methyl-2,3,4,5-tetraphenyl-1H-germole]iron, 10Cl

[62945-30-6]

As Tricarbonyl[(2,3,4,5- η)-1-fluoro-1-methyl-2,3,4,5-tetraphenyl-1H-germole]iron, Fe-02059 with

X = H, Y = Me

M 584.977

Air-sensitive in soln.

(exo-H)-form [73836-74-5]

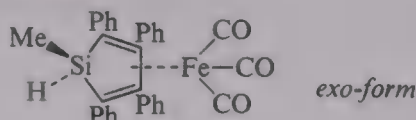
Yellow cryst. (hexane). Mp 176°.

Jutzi, P. *et al*, *J. Organomet. Chem.*, 1977, **128**, 57; 1981, **215**, 27 (synth, pmr, ir, ms)C₃₂H₂₄FeO₃Si

Fe-02062

Tricarbonyl[(2,3,4,5- η)-1-methyl-2,3,4,5-tetraphenylsilacyclopenta-2,4-diene]iron, 10Cl

[62841-59-2]



M 540.472

exo-form [59714-67-9]

Yellow-orange cryst. (Et₂O). Mp 177-9°.

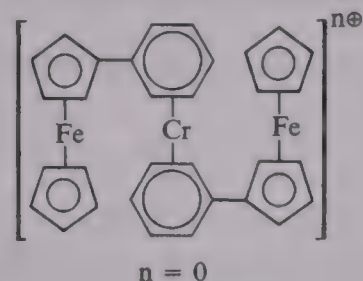
endo-form [59779-74-7]

Orange cryst. Mp 164-6°. Bp_{0.001} 180° subl.Abel, E.W. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 2483 (synth, ms, pmr, ir)Sakurai, H. *et al*, *J. Organomet. Chem.*, 1976, **110**, 303 (synth, ir, pmr)C₃₂H₂₈CrFe₂

Fe-02066

Bis[(η⁶-phenyl)ferrocene]chromium, 10Cl(1,1'-Diferrocenyldi- π -benzene)chromium

[67574-52-1]



n = 0

M 576.263

Isol. as the oxidation product 89776-1.

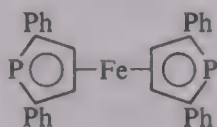
Sheveler, Yu.A. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1981, 1414 (synth)C₃₂H₂₄FeP₂

Fe-02063

Bis[(1,2,3,4,5- η)-2,5-diphenyl-1H-phosphol-1-yl]iron, 10Cl

2,2',5,5'-Tetraphenyl-1,1'-diphosphaferrocene

[67887-87-0]



M 526.336

C₃₂H₂₈CrFe₂[⊕]

Fe-02067

Bis[(η⁶-phenyl)ferrocene]chromium(1+), 10Cl(1,1'-Diferrocenyldi- π -benzene)chromium(1+)As Bis[(η⁶-phenyl)ferrocene]chromium, Fe-02066 with

n = 1

M 576.263 (ion)

Iodide: [75826-53-8].

C₃₂H₂₈CrFe₂I M 703.168

Red-brown lustrous cryst. (MeOH). Mp 132-4°.

Tetraphenylborate: [79102-83-3].

C₅₆H₄₈BCrFe₂ M 895.495

No phys. props. reported.

Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1978, 1420 (*synth, esr, mössbauer*)Shevelev, Yu.A. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1980, 1414; 1981, 1414 (*synth, ir, uv, esr*)**C₃₂H₂₉FeOP****Fe-02068****Carbonylmethyl[(1,2,3,4,5-η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl](triphenylphosphine)iron, 9Cl****Methyl(η⁵-1-methyl-3-phenylcyclopentadienyl)carbonyl(triphenylphosphine)iron**

[51812-56-7]

As Carbonyliodo[(1,2,3,4,5-η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl](triphenylphosphine)iron, Fe-02033 with

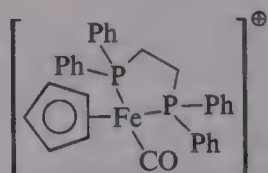
X = Me

M 516.401

Isol. as a mixt. of diastereomers. Orange cryst. A 97:3 mixt. of the two isomers has Mp 137-8°, an 8:92 mixt. has Mp 139-41° dec.

Attig, T.G. *et al*, *J. Organomet. Chem.*, 1974, **82**, 397 (*synth, isom*)**C₃₂H₂₉FeOP₂[⊕]****Fe-02069****Carbonyl(η⁵-2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-P,P']iron(1+), 9Cl****Carbonyl-π-cyclopentadienyl[ethylenebis(diphenylphosphine)]iron(1+), 8Cl. [1,2-Bis(diphenylphosphino)ethane]carbonyl(η⁵-cyclopentadienyl)iron(1+)**

[41617-78-1]



M 547.375 (ion)

Hydroxide: [70196-16-6].

C₃₂H₃₀FeO₂P₂ M 564.382

Yellow needles. Mp 89-91°.

Tetrafluoroborate: [35004-56-9].

C₃₂H₂₉BF₄FeOP₂ M 634.179Golden-yellow cryst. (Et₂O). Mp 220°.

Hexafluorophosphate: [59904-75-1].

C₃₂H₂₉F₆FeOP₃ M 692.339Yellow needles (CH₂Cl₂/pet. ether). Mp 191-4°.

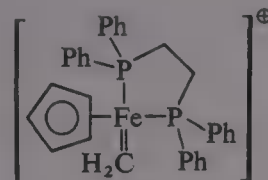
Tetrahydroborate: [70196-17-7].

C₃₂H₃₃BF₂FeOP₂ M 562.217

Yellow solid. Mp 132-3°.

Haines, R.J. *et al*, *Inorg. Chem.*, 1972, **11**, 330 (*synth, ir, pmr*)Isaacs, E.E. *et al*, *J. Organomet. Chem.*, 1976, **120**, 407 (*synth, ir, pmr, nmr*)Sellmann, D. *et al*, *J. Organomet. Chem.*, 1977, **140**, 211 (*synth, ir, pmr*)Felkin, H. *et al*, *J. Organomet. Chem.*, 1978, **146**, 151 (*synth*)Grice, N. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 1627 (*synth, ir*)Riley, P.E. *et al*, *Organometallics*, 1983, **2**, 286 (*struct, ir*)**C₃₂H₃₁FeP₂[⊕]****Fe-02070****(η⁵-2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-P,P']methyleneiron(1+), 10Cl****[1,2-Bis(diphenylphosphino)ethane](η⁵-cyclopentadienyl)methyleneiron(1+)**

[73321-92-3]

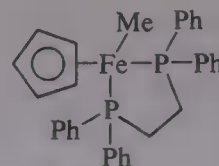


M 533.391 (ion)

Methylene transfer reagent. Characterised spectroscopically.

Brookhart, M. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 1203 (*synth, pmr, cmr*)**C₃₂H₃₂FeP₂****Fe-02071****(η⁵-2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-P,P']methyliron, 10Cl****[1,2-Bis(diphenylphosphino)ethane](η⁵-cyclopentadienyl)methyliron**

[51509-19-4]



M 534.399

Dark-red needles (Et₂O/pet. ether).Mays, M.J. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1873 (*synth*)Felkin, H. *et al*, *J. Organomet. Chem.*, 1978, **146**, 151 (*synth, pmr*)**C₃₂H₃₈B₂Fe₂N₂O₄****Fe-02072****Di-μ-carbonyldicarbonylbis[(3,4,5-η)-1-(1,1-dimethylethyl)-2,3-dihydro-3-methyl-2-phenyl-1H-1,2-azaborol-3-yl-B²,N¹]diiron, 10Cl****Bis(1-tert-butyl-2,3-dihydro-3-methyl-2-phenyl-1H-1,2-azaborol-3-yl)tetracarbonyldiiron**

As Di-

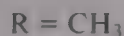
μ-carbonyldicarbonylbis[(3,4,5-η)-1-(1,1-dimethylethyl)-2,3-dihydro-2-methyl-1H-1,2-azaborol-3-yl-B²,N¹]diiron, Fe-01691 withR = Ph, R' = CH₃

M 647.977

cis-form [72444-61-2]Red-brown cryst. (CH₂Cl₂).**trans-form** [75109-70-5]Red cryst. (toluene). Dec. >150°. Isomerises to *cis*-form at 90°.Schulze, J. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1980, **19**, 54 (*synth, ir, pmr, nmr*)Schulze, J. *et al*, *Chem. Ber.*, 1980, **113**, 2348 (*synth, ir, pmr, nmr, struct*)**C₃₂H₄₂Fe₂****Fe-02073****Bis[(1,2,3,4,5-η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl][μ-[(1,2,3,4,5-η):1',2',3',4',5'-η][bi-2,4-cyclohexadien-1-yl]-6,6'-diyl]diiron, 10Cl**

[63000-19-1]

As [μ -[(2,3,4,5,6- η :2',3',4',5',6'- η)-[bi-3,5-cyclohexadien-1-yl]-2,2'-diyl]]bis(η^5 -2,4-cyclopentadien-1-yl)di-iron, Fe-01770 with

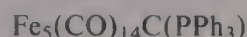


M 538.378

Thermal dimerisation product of (η^6 -Benzene)-[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, Fe-01439. Bright-orange flakes (pentane). Mp 103°.

Hamon, J.-R. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 758 (*synth*, *pmr*, *cmr*)

C₃₃H₁₅Fe₅O₁₄P **Fe-02074**
(Carbon)tetradecacarbonyl(triphenylphosphine)pentairon, 9Cl
[56259-79-1]

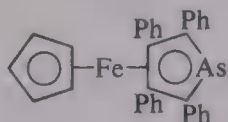


M 945.682

Site of substitution not known. Black cryst.

Cooke, C.G. *et al*, *J. Organomet. Chem.*, 1975, **88**, 231 (*synth*, *ir*, *pmr*)

C₃₃H₂₅AsFe **Fe-02075**
(η^5 -2,4-Cyclopentadien-1-yl)(1,2,3,4,5- η)-2,3,4,5-tetraphenyl-1H-arsol-1-yl]iron, 10Cl
2,3,4,5-Tetraphenylarsaferrocene
[72415-86-2]

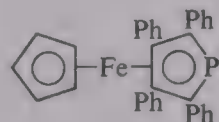


M 552.329

Red needles (xylene/hexane). Mp 247-9°.

Abel, E.W. *et al*, *J. Chem. Soc., Dalton Trans.*, 1979, 1552 (*synth*, *pmr*, *ms*)

C₃₃H₂₅FeP **Fe-02076**
(η^5 -2,4-Cyclopentadien-1-yl)(1,2,3,4,5- η)-2,3,4,5-tetraphenyl-1H-phosphol-1-yl]iron, 10Cl
2,3,4,5-Tetraphenylphosphaferrocene
[72415-87-3]



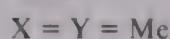
M 508.381

Orange cryst. (xylene/hexane). Mp 227-9°.

Abel, E.W. *et al*, *J. Chem. Soc., Dalton Trans.*, 1979, 1552 (*synth*, *ir*, *pmr*, *ms*)

C₃₃H₂₆FeGeO₃ **Fe-02077**
Tricarbonyl[(2,3,4,5- η)-1,1-dimethyl-2,3,4,5-tetraphenyl-1H-germole]iron, 10Cl
[63106-71-8]

As Tricarbonyl[(2,3,4,5- η)-1-fluoro-1-methyl-2,3,4,5-tetraphenyl-1H-germole]iron, Fe-02059 with



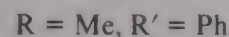
M 599.004

Yellow to yellow-orange cryst. (hexane). Mp 178°.

Jutzi, P. *et al*, *J. Organomet. Chem.*, 1977, **128**, 57; 1981, **215**, 27 (*synth*, *pmr*, *ir*)

C₃₃H₂₆FeO₃Si **Fe-02078**
Tricarbonyl[(2,3,4,5- η)-1,1-dimethyl-2,3,4,5-tetraphenylsila-cyclopenta-2,4-diene]iron, 10Cl
[32649-34-6]

As Tricarbonyl[(2,3,4,5- η)-1,1-dimethyl-2,5-diphenylsila-cyclopenta-2,4-diene]iron, Fe-01717 with



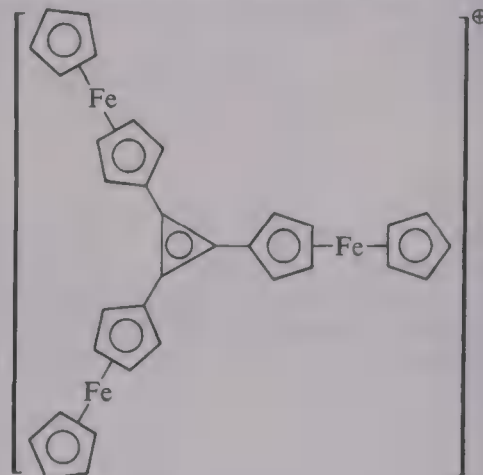
M 554.499

Red-orange cryst. (pet. ether). Mp 173° (168°).

Brunet, J.-C. *et al*, *Bull. Soc. Chim. Fr.*, 1969, 3424 (*synth*, *ir*)
Sakurai, H. *et al*, *J. Organomet. Chem.*, 1976, **110**, 303; 1980, **201**, C14 (*synth*, *pmr*, *ir*, *nmr*)

Nakadaira, H. *et al*, *J. Organomet. Chem.*, 1979, **165**, 399 (*synth*)

C₃₃H₂₇Fe₃[⊕] **Fe-02079**
Triferrocenylcyclopropenylum(1+), 10Cl
Triferrocenylcyclopropenium(1+)



M 591.117 (ion)

Perchlorate: [56581-58-9].

C₃₃H₂₇ClFe₃O₄ M 690.568

Dark-red cryst. + 1H₂O (CH₂Cl₂/pet. ether). Mp 171°. Forms 1:3 complex with C₆H₆.

▷ Explosive

Tetrafluoroborate: [62963-88-6].

C₃₃H₂₇BF₄Fe₃ M 677.921

Dark-red cryst. (CH₂Cl₂/pet. ether). Mp 127° dec.

Fry, A.J. *et al*, *Tetrahedron Lett.*, 1976, 4803 (*props*)

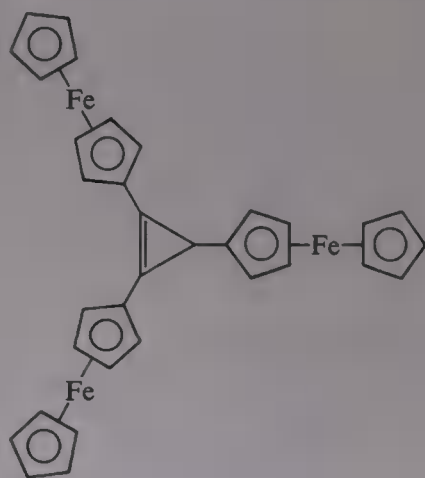
Agranat, I. *et al*, *Tetrahedron*, 1979, **35**, 733 (*synth*, *pmr*, *cmr*, *uv*, *ir*)

Jenny, T. *et al*, *J. Organomet. Chem.*, 1981, **205**, 211 (*nmr*)

C₃₃H₂₈Fe₃

Fe-02080

1,2,3-Triferrocenylcyclopropene

1,1'',1'''-(1-Cyclopropene-1,2,3-triyl)trisferrocene, 10Cl
[62965-89-3]

M 592.125

Orange solid (CCl₄). Mp 179°.Agranat, I. *et al*, *Tetrahedron*, 1979, **35**, 733 (synth, pmr, cmr, uv, ir)C₃₃H₂₉FeO₂P

Fe-02081

Acetylcarbonyl[(1,2,3,4,5-η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl](triphenylphosphine)iron, 9Cl

(η⁵-1-Methyl-3-phenylcyclopentadienyl)acetylcarbonyl-(triphenylphosphine)iron. Acetyl(η⁵-1-methyl-3-phenylcyclopentadienyl)carbonyl(triphenylphosphine)iron
[54516-73-3]

As Carbonyliodo[(1,2,3,4,5-η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl](triphenylphosphine)iron, Fe-02033 with

X = Ac

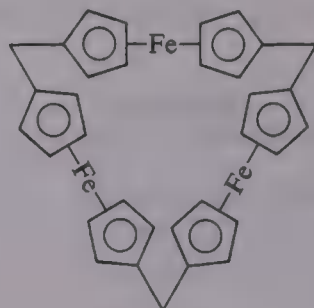
M 544.412

Isol. as a mixt. of diastereomers. Orange cryst. + C₆H₆. Mp 87-8°. A 1:1 mixt. of the diastereomers has Mp 129-34° dec. A 95:5 sample enriched in the less sol. form has Mp 136-8° dec.Attig, T.G. *et al*, *J. Organomet. Chem.*, 1974, **82**, 397 (synth, isom, pmr)Attig, T.G. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 619 (struct, synth)C₃₃H₃₀Fe₃

Fe-02082

[1.1.1]Ferrocenophane, 9Cl

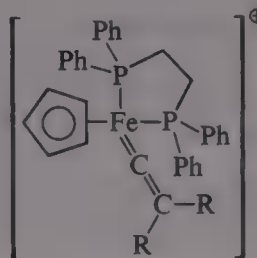
[12504-75-5]



M 594.141

Orange cryst. (CS₂). Mp 278.5-280.5° (in vacuo).Lippard, S.J. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 7291 (struct)Katz, T.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 2934 (synth, pmr, uv, ir, ms)C₃₃H₃₁FeP₂[⊕]

Fe-02083

(η⁵-2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-P,P']ethenylideneiron(1+), 10Cl
[1,2-Bis(diphenylphosphino)ethane](η⁵-cyclopentadienyl)ethenylideneiron(1+)

R = H

M 545.402 (ion)

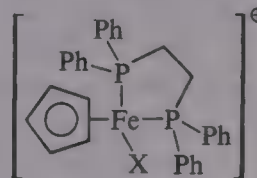
Hexafluorophosphate: [68866-83-1].

C₃₃H₃₁F₆FeP₃ M 690.367

Pale-orange cryst.

Davison, A. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 7763 (synth, ir, pmr, cmr)C₃₃H₃₂FeNP₂[⊕]

Fe-02084

(Acetonitrile)(η⁵-2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-P,P']iron(1+), 10Cl
(Acetonitrile)[bis(diphenylphosphino)ethane](π-cyclopentadienyl)iron(1+)X = H₃CCN-

M 560.417 (ion)

Bromide: [70459-84-6].

C₃₃H₃₂BrFeNP₂ M 640.321

Maroon cryst.

Tetraphenylborate: [64913-45-7].

C₅₇H₅₂BFeNP₂ M 879.649Deep-red irregular cryst. (Me₂CO). Mp 190° dec.Riley, R.E. *et al*, *Inorg. Chem.*, 1978, **17**, 408 (synth, cmr, pmr, ir, struct)Treichel, P.M. *et al*, *Synth. React. Inorg. Met.-Org. Chem.*, 1979, **9**, 21 (synth)C₃₃H₃₄FeOP₂[⊕]

Fe-02085

(η⁵-2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-P,P'](methoxymethyl)iron, 10Cl
[1,2-Bis(diphenylphosphino)ethane]-π-cyclopentadienyl(methoxymethyl)iron
[64913-43-5]As (Acetonitrile)(η⁵-2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-P,P']iron(1+), Fe-02084 withX = -CH₂OMe

M 564.426

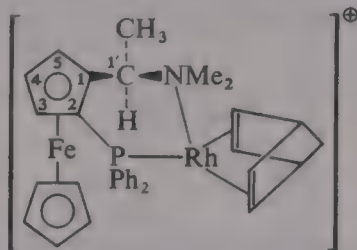
Orange-red cryst. (C₆H₆/pet. ether). Mp 150° dec.

Riley, P.E. *et al*, *Inorg. Chem.*, 1978, **17**, 408 (*synth*, *ir*, *pmr*)

C₃₃H₃₆FeNPRh⁺

Fe-02086

[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene] 1-[1-(dimethylamino)ethyl]-2-diphenylphosphino)ferrocene-*N, P*]rhodium(1+), 10Cl



M 636.380 (ion)

Catalyst precursor for the asymmetric hydrogenation of acetamidoacrylic acid derivatives, itaconic acid and styrene.

(1*R*, 1'*S*)-form

Perchlorate: [73135-89-4].

C₃₃H₃₆ClFeNO₄PRh M 735.831

No phys. props. reported.

Hexafluorophosphate: [73089-67-5].

C₃₃H₃₆F₆FeNP₂Rh M 781.345

No phys. props. reported.

(1*S*, 1'*R*)-form

Hexafluorophosphate: [65107-19-9]. No phys. props. reported.

(1*RS*, 1'*RS*)-form

Perchlorate: Orange-brown solid. Mp 190° dec.

Hexafluorophosphate: Red solid (CH₂Cl₂/EtOH/Et₂O). Sol. CHCl₃. Mp 192° dec.

Cullen, W.R. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 988 (*synth*, *cryst struct*, *use*, *pmr*)

Cullen, W.R. *et al*, *Can. J. Chem.*, 1982, **60**, 1793 (*use*)

C₃₄H₂₀Fe₂O₆

Fe-02087

Hexacarbonyl[μ-[(1,2,3,4- η :1,4- η)-1,2,3,4-tetraphenyl-1,3-butadiene-1,4-diyl]]diiron, 9Cl

Hexacarbonyl[μ-(1,2,3,4-tetraphenyl-1,3-butadienylene)]diiron, 8Cl. (Tetraphenylferrolettricarboxyl)iron tricarbonyl. (1,2,3,4-Tetraphenyl-1,3-butadiene)diiron hexacarbonyl

[33310-05-3]

As [μ-[(1,2,3,4- η :1,4- η)-1,3-Butadiene-1,4-diyl]]hexacarbonyldiiron, Fe-00481 with

R = Ph

M 636.222

Orange-yellow cryst. Mp ca. 200° dec.

Hübel, W. *et al*, *J. Inorg. Nucl. Chem.*, 1959, **10**, 250 (*synth*, *ir*)

Riley, P.E. *et al*, *Acta Crystallogr., Sect. B*, 1975, **31**, 2928

(*struct*)

Aime, S. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 838 (*cmr*)

C₃₄H₂₀Fe₂O₆

Fe-02088

Hexacarbonyl(tetraphenylbutatriene)diiron

[μ-[1,1',1'',1'''-[(1,2,3- η :2,3,4- η)-1,2,3-Butatriene-1,4-diylidene]]tetrakis[benzene]]hexacarbonyldiiron, 10Cl. (Tetraphenylbutatriene)hexacarbonyldiiron

[41395-54-4]

As [μ-[(1,2,3- η :2,3,4- η)-2-Butyne-1,4-diyl]]hexacarbonyldiiron, Fe-00482 with

R = Ph

M 636.222

Previously formulated as Fe₂(CO)₅ complex. Dark-red cryst. (C₆H₆/hexane). Mp 206° dec. Bp₃ 180° subl.

Joshi, K.K. *et al*, *J. Chem. Soc. (A)*, 1966, 594, 598 (*synth*, *ir*, *pmr*)

Bright, D. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 2465 (*struct*)

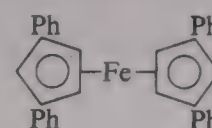
Vicior, R. *et al*, *Org. Magn. Reson.*, 1978, **11**, 31 (*cmr*)

C₃₄H₂₆Fe

Fe-02089

1,1',3,3'-Tetraphenylferrocene, 9Cl

[57327-11-4]



M 490.426

Orange-red prisms (Me₂CO). Mp 220-2°.

Pauson, P.L., *J. Am. Chem. Soc.*, 1954, **76**, 2187 (*synth*)

Hallam, B.F. *et al*, *J. Chem. Soc.*, 1956, 3030 (*synth*)

McVey, S. *et al*, *J. Chem. Soc.*, 1965, 4312 (*synth*)

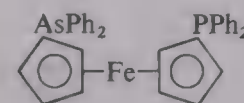
Koehler, F.H. *et al*, *J. Organomet. Chem.*, 1975, **96**, 391 (*cmr*, *pmr*)

C₃₄H₂₈AsFeP

Fe-02090

1-(Diphenylarsino)-1'-(diphenylphosphino)ferrocene, 10Cl

[73203-06-2]



M 598.338

Golden nuggets (C₆H₆/hexane). Mp 164-165.5°.

Seyferth, D. *et al*, *Organometallics*, 1982, **1**, 1275 (*synth*, *nmr*, *ms*)

C₃₄H₂₈As₂Fe

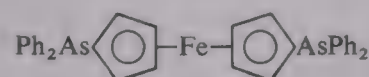
Fe-02091

1,1'-Bis(diphenylarsino)ferrocene

1,1'-Ferrocenediylbis[diphenylarsine], 8Cl. 1,1'-Ferroce-nebis[diphenylarsine].

Bis(cyclopentadienyldiphenylarsine)iron

[32609-79-3]



M 642.285

Long orange needles (heptane). Insol. H₂O, alcohols. Mp 150-1°.

B.2MeI:

C₃₆H₃₄As₂FeI₂ M 926.164

Golden needles (EtOH). Mp 166.5-167.5°.

Bis-sulfide:

C₃₄H₂₈As₂FeS₂ M 706.405

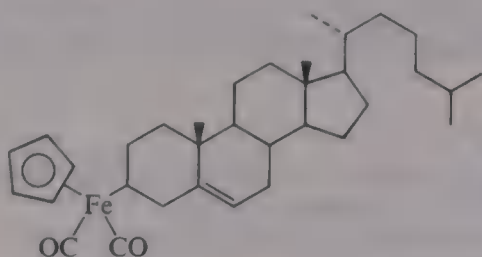
Orange cryst. (Me₂CO). Mp 173.5-175°.

Bishop, J.J. *et al*, *J. Organomet. Chem.*, 1971, **27**, 241 (*synth*, *pmr*, *ir*)

C₃₄H₅₀FeO₂

Fe-02097

Dicarbonyl-5-cholesten-3-yl(η^5 -2,4-cyclopentadien-1-yl)iron, 10Cl
[71988-11-9]



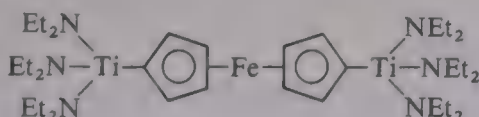
M 546.615
Yellow glass.

Laycock, D.E. *et al*, *J. Org. Chem.*, 1980, **45**, 291 (*synth, ir, pmr*)

C₃₄H₆₈FeN₆Ti₂

Fe-02098

Hexakis(diethylaminato)- μ -1,1'-ferrocenediyltitanium
Hexakis(N-ethylethanaminato)- μ -1,1'-ferrocenediyltitanium, 9Cl. 1,1'-Bis[tris(diethylamino)titanium]-ferrocene
[42920-73-0]



M 712.558
Red-brown, water-sensitive cryst. (Et₂O/pet. ether). Mp 40-50° dec.

Bürger, H. *et al*, *J. Organomet. Chem.*, 1973, **56**, 269 (*synth, pmr, cmr, ir*)

Thewalt, U. *et al*, *Z. Naturforsch. B*, 1975, **30**, 636 (*struct*)

Bürger, H. *et al*, *Z. Anorg. Allg. Chem.*, 1976, **423**, 112 (*pmr, cmr*)

C₃₅H₂₀Fe₂O₇

Fe-02099

Hexacarbonyl[μ -(1,2,5- η :1,4,5- η)-3-oxo-1,2,4,5-tetraphenyl-1,4-pentadiene-1,5-diyl]diiron, 9Cl
Hexacarbonyl[μ -(3-oxo-1,2,4,5-tetraphenyl-1,4-pentadienylene)]diiron, 8Cl. *Heptacarbonylbis*(diphenylacetylene)diiron (*incorr.*)
[57214-94-5]

As Hexacarbonyl[μ -(1,2,5- η :1,4,5- η)-1,2,4,5-tetramethyl-3-oxo-1,4-pentadiene-1,5-diyl]diiron, Fe-01318 with

R = Ph

M 664.233
Red needles (C₆H₆/pentane). Mp 154-5° dec. Exhibits carbonyl exchange at +40° in soln.

Hübel, W. *et al*, *J. Inorg. Nucl. Chem.*, 1959, **10**, 250 (*synth, ir*)
Greatrex, R. *et al*, *J. Organomet. Chem.*, 1968, **13**, 533 (*mössbauer*)

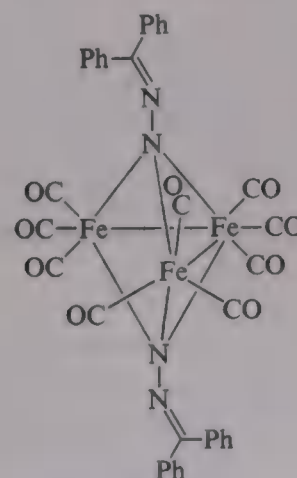
Hickey, J.P. *et al*, *J. Organomet. Chem.*, 1975, **99**, 281 (*cmr, synth*)

Cotton, F.A. *et al*, *Inorg. Chem.*, 1976, **15**, 63 (*synth, struct, cmr, ir*)

C₃₅H₂₀Fe₃N₄O₉

Fe-02100

Bis[μ_3 -[benzophenone hydrazone(2-)]nonacarbonyltriiron, 8Cl
[19440-75-6]



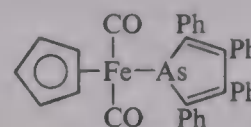
M 808.105
Black cryst (C₆H₆/EtOH). Mp 170°.

Baikie, P.E. *et al*, *J. Chem. Soc., Chem. Commun.*, 1967, 1228 (*synth, struct*)

C₃₅H₂₅AsFeO₂

Fe-02101

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,3,4,5-tetraphenyl-1H-arsol-1-yl)iron, 10Cl
[71252-87-4]



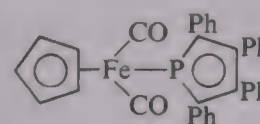
M 608.350
Araferrocene precursor. Brown cryst. (hexane). Mp 209-11° dec.

Abel, E.W. *et al*, *J. Chem. Soc., Dalton Trans.*, 1979, 814 (*synth, ir, pmr*)

C₃₅H₂₅FeO₂P

Fe-02102

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,3,4,5-tetraphenyl-1H-phosphol-1-yl)iron, 9Cl
[36496-78-3]



M 564.402
Air-sensitive yellow-orange or brown cryst. Mp 200-10° dec. (195° dec.). Bp 180° subl. *in vacuo*. Solns. readily oxidised to corresponding P-oxide.

CH₂Cl₂ solvate: Mp 175-80° dec.

P-oxide:

C₃₅H₂₅FeO₃P M 580.401

Yellow-orange cryst. (C₆H₆/pet. ether). Mp 245-60° dec.

Braye, E.H. *et al*, *Bull. Soc. Chim. Belg.*, 1971, **80**, 651 (*synth, ir*)

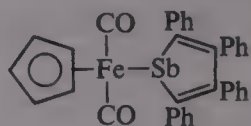
Abel, E.W. *et al*, *J. Chem. Soc., Dalton Trans.*, 1979, 814 (*synth, pmr*)

C₃₅H₂₅FeO₂Sb

Fe-02103

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,3,4,5-tetraphenyl-1*H*-stibol-1-yl)iron, 10Cl

[71252-88-5]



M 655.178

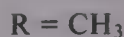
Brown cryst. (hexane). Mp 127-9° dec.

Abel, E.W. *et al*, *J. Chem. Soc., Dalton Trans.*, 1979, 814 (synth, ir, pmr)C₃₅H₃₅FeP₂⁺

Fe-02104

(η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis[diphenylphosphine]-*P,P'*](2-methyl-1-propenylidene)iron(1+)
[Bis(diphenylphosphino)ethane](η^5 -cyclopentadienyl)-(2-methylpropenylidene)iron(1+)

[68866-78-4]

As (η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis[diphenylphosphine]-*P,P'*]ethenylideneiron(1+), Fe-02083 with

M 573.456 (ion)

Fluorosulfate: [68866-79-5].

C₃₅H₃₅FFeO₃P₂S M 672.513

Lustrous-orange plates. Mp 230.5-232.5° dec.

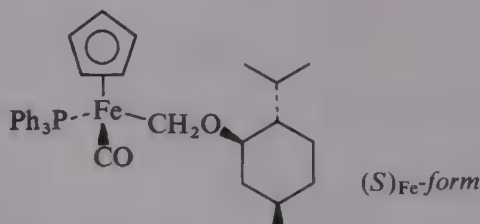
Hexafluorophosphate:

C₃₅H₃₅F₆FeP₃ M 718.420

Pale-orange solid.

Davison, A. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 7763.Adams, R.D. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 7232 (synth, ir, pmr)C₃₅H₄₁FeO₂P

Fe-02105

Carbonyl(η^5 -cyclopentadienyl)(menthyloxymethyl)(triphenylphosphine)ironCarbonyl(η^5 -2,4-cyclopentadien-1-yl)[[5-methyl-2-(1-methylethyl)cyclohexyl]oxy]methyl](triphenylphosphine)iron, 9Cl. σ -(Menthyloxymethyl)- π -cyclopentadienylcarbonyl(triphenylphosphine)iron(S)_{Fe}-form

M 580.528

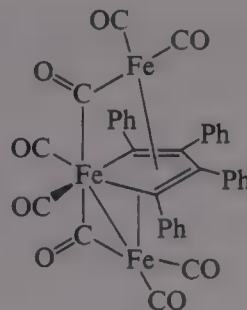
Optically active carbene transfer reagent.

(S)_{Fe}-form [53584-63-7]Red-orange cryst. (hexane). Mp 146-146.5°. [α]_D²⁵ +209° (c, 0.1 in C₆H₆).(R)_{Fe}-form [53521-53-2]Red-orange cryst. (hexane). Mp 119-20°. [α]_D²⁵ -407° (c, 0.1 in C₆H₆).Davison, A. *et al*, *J. Organomet. Chem.*, 1974, **72**, C7 (use, cd)Flood, T.C. *et al*, *Inorg. Chem.*, 1976, **15**, 1910 (synth, ir, pmr)C₃₆H₂₀Fe₃O₈

Fe-02106

Di- μ -carbonylhexacarbonyl(1,2,3,4-tetraphenyl-1,3-butadiene-1,4-diyl)triiron, 9ClDi- μ -carbonylhexacarbonyl[μ_3 -(1,2,3,4-tetraphenyl-1,3-butadienylene)]triiron, 8Cl

[19610-82-3]



M 748.090

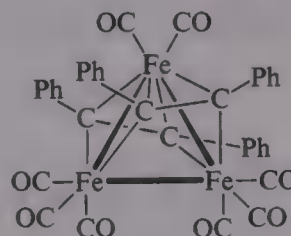
"Black isomer". See also Octacarbonylbis[1,1'-(1,2-ethynediyl)bis[benzene]]triiron, Fe-02107. Dark-green cryst. Mp 210° dec. Dec. to (PhC $\equiv$ CPh)₂Fe₂(CO)₆; exhibits fluxional behaviour with CO site interchange.Hübel, W. *et al*, *J. Inorg. Nucl. Chem.*, 1959, **10**, 250 (synth)Dodge, R.P. *et al*, *J. Organomet. Chem.*, 1965, **3**, 274 (struct)Blount, J.F. *et al*, *J. Am. Chem. Soc.*, 1966, **88**, 292 (synth)Hickey, J.P. *et al*, *J. Organomet. Chem.*, 1975, **99**, 281 (synth, cmr)Aime, S. *et al*, *Inorg. Chim. Acta*, 1976, **16**, L7 (cmr)C₃₆H₂₀Fe₃O₈

Fe-02107

Octacarbonylbis[1,1'-(1,2-ethynediyl)bis[benzene]]triiron, 9Cl

Octacarbonylbis[μ_3 -(diphenylvinylene)]triiron, 8Cl

[12119-33-4]



M 748.090

"Violet isomer". Isomerises at 80° to form the "black isomer" Di- μ -carbonylhexacarbonyl(1,2,3,4-tetraphenyl-1,3-butadiene-1,4-diyl)triiron, Fe-02106.Hübel, W. *et al*, *J. Inorg. Nucl. Chem.*, 1959, **10**, 250 (synth)Dodge, R.P. *et al*, *J. Organomet. Chem.*, 1965, **3**, 274 (struct)Blount, J.F. *et al*, *J. Am. Chem. Soc.*, 1966, **88**, 292 (synth)Hickey, J.P. *et al*, *J. Organomet. Chem.*, 1975, **99**, 281 (cmr)C₃₆H₃₀As₂FeN₂O₂

Fe-02108

Dinitrosylbis(triphenylarsine)iron, 8Cl

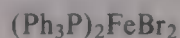
[14126-29-5]



M 728.335

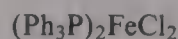
Brown cryst. Mp 154-6° dec.

Johnson, B.F.G. *et al*, *Prog. Inorg. Chem.*, 1966, **7**, 277 (synth, ir)Cullen, W.R. *et al*, *Inorg. Chem.*, 1971, **10**, 1616 (mössbauer)

C₃₆H₃₀Br₂FeP₂**Fe-02109****Dibromobis(triphenylphosphine)iron, 9Cl, 8Cl**
[19543-99-8]

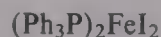
M 740.236

Light-yellow.

Pignolet, L.H. *et al*, *Inorg. Chem.*, 1968, **7**, 828 (*synth*, *pmr*)**C₃₆H₃₀Cl₂FeP₂****Fe-02110****Dichlorobis(triphenylphosphine)iron, 9Cl, 8Cl**
[19543-98-7]

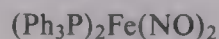
M 651.334

Hydrogenation catalyst. Pale-yellow cryst.

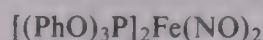
Pignolet, L.H. *et al*, *Inorg. Chem.*, 1968, **7**, 828 (*synth*, *pmr*)Nishiguchi, T. *et al*, *J. Organomet. Chem.*, 1980, **193**, 37 (*use*)**C₃₆H₃₀FeI₂P₂****Fe-02111****Diiodobis(triphenylphosphine)iron, 8Cl**
[19544-00-4]

M 834.237

Dark brownish-black cryst.

Pignolet, L.H. *et al*, *Inorg. Chem.*, 1968, **7**, 828 (*synth*, *pmr*)Pfeiffer, E. *et al*, *Transition Met. Chem.*, 1979, **4**, 385 (*synth*, *props*)**C₃₆H₃₀FeN₂O₂P₂****Fe-02112****Dinitrosylbis(triphenylphosphine)iron, 9Cl, 8Cl**
[14056-98-5]

M 640.440

Green-brown cryst. (CH₂Cl₂/hexane) or brown-black cryst. Mp 205°. Stable for a few hr. in dry air, oxid. rapidly when moist.Malatesta, M. *et al*, *J. Chem. Soc.*, 1957, 3803 (*synth*)Morris, D.E. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 2536 (*synth*, *ir*)Albano, V.G. *et al*, *J. Organomet. Chem.*, 1974, **67**, 413 (*cryst struct*)Ungerman, C.B. *et al*, *J. Am. Chem. Soc.*, 1976, **98**, 3862 (*synth*)**C₃₆H₃₀FeN₂O₈P₂****Fe-02113****Dinitrosylbis(triphenyl phosphite-P)iron, 9Cl**
Dinitrosylbis(phosphorous acid)iron hexaphenyl ester, 8Cl
[33724-84-4]

M 736.436

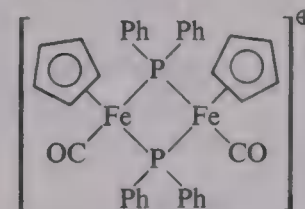
Red cryst. Sol. most org. solvs. Mp 83°. Dec. at 175°.

Oxid. rapidly in air when moist.

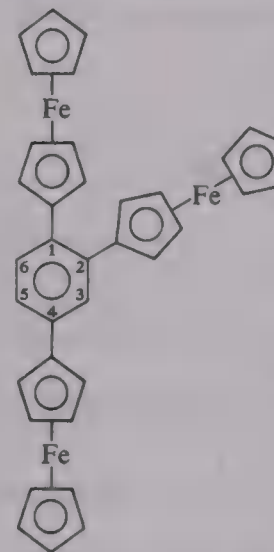
Malatesta, L. *et al*, *J. Chem. Soc.*, 1957, 3803 (*synth*)Beck, W. *et al*, *Chem. Ber.*, 1966, **99**, 3721 (*ir*)Cullen, W.R. *et al*, *Inorg. Chem.*, 1971, **10**, 1616 (*mössbauer*, *esr*)Kruck, T. *et al*, *Z. Anorg. Allg. Chem.*, 1973, **402**, 16 (*synth*, *ir*, *ms*)**C₃₆H₃₀Fe₂O₂P₂****Fe-02114****Dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)bis[μ-(diphenylphosphino)]diiron, 9Cl**
Dicarbonyldi-π-cyclopentadienylbis[μ-(diphenylphosphino)]diiron, 8Cl.
Bis[cyclopentadienylcarbonyliron(diphenylphosphine)]
[12102-78-2]As *Dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)bis[μ-(dimethylphosphino)]diiron*, Fe-01451 with

R = Ph

M 668.273

cis-form [37336-33-7]Dark-brown cryst. (CH₂Cl₂/pentane). Mp 302-4°.*trans-form* [37336-34-8]Brown-red cryst. (hexane/C₆H₆). Mp 215-7°.Hayter, R.G., *J. Am. Chem. Soc.*, 1963, **85**, 3120 (*synth*, *ir*, *pmr*)Treichel, P.M. *et al*, *J. Organomet. Chem.*, 1972, **42**, 145 (*synth*)**C₃₆H₃₀Fe₂O₂P₂⁺****Fe-02115****Dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)bis[μ-(diphenylphosphino)]diiron(1+), 9Cl**

M 668.273 (ion)

Tetraphenylborate: [52391-16-9].C₆₀H₅₀BFe₂O₂P₂ M 987.505Blue cryst. (CH₂Cl₂/MeOH).DeBeer, J.A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 2341 (*synth*, *ir*, *esr*)**C₃₆H₃₀Fe₃****Fe-02116****1,2,4-Triferrocenylbenzene***1,1'',1'''-(1,2,4-Benzenetriyl)trisferrocene, 9Cl*

M 630.174

Solid. Mp 247-50°. Bp_{0.05} 230-50° subl.Schlögl, K. *et al*, *Monatsh. Chem.*, 1968, **99**, 927 (*synth*, *pmr*, *uv*)Kunitake, T. *et al*, *Makromol. Chem.*, 1971, **146**, 79 (*synth*)Pittmann, C.U. *et al*, *Tetrahedron Lett.*, 1973, 4399.

Vishnyakova, T.P. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Sci. Khim.*, 1973, **208**, 853 (*synth*)

C₃₆H₃₀Fe₃

Fe-02117

1,3,5-Triferrocenylbenzene

1,1'',1'''-(1,3,5-Benzenetriyl)trisferrocene, 9Cl

[12132-51-3]

M 630.174

Cryst. (cyclohexane/CH₂Cl₂). Mp 264-5°.

Schögl, K. *et al*, *Monatsh. Chem.*, 1968, **99**, 927 (*synth*)

Nakashima, T. *et al*, *Makromol. Chem.*, 1972, **157**, 73 (*props*)

Pittmann, C.U. *et al*, *Tetrahedron Lett.*, 1973, 4399 (*props*)

Sasaki, Y. *et al*, *J. Org. Chem.*, 1973, **38**, 3723 (*synth, pmr*)

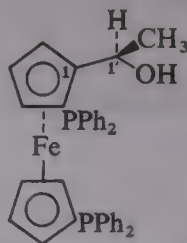
C₃₆H₃₂FeOP₂

Fe-02118

1,1'-Bis(diphenylphosphino)-2-(1-hydroxyethyl)ferrocene,

10Cl

BPPFOH



M 598.443

Asymmetric hydrogenation catalyst.

(1*R*,1'*S*)-*form* [71049-99-5]

Solid. Mp 154-5°. [α]_D²⁵ –285° (c, 0.5 in CHCl₃).

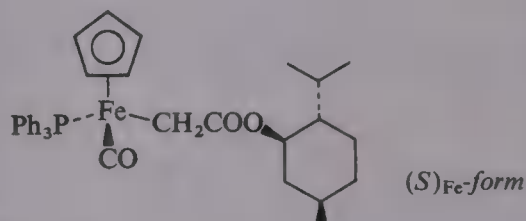
Hayashi, T. *et al*, *Tetrahedron Lett.*, 1976, 4351 (*synth*)

C₃₆H₄₁FeO₃P

Fe-02119

Carbonyl(carboxymethyl)- η^5 -cyclopentadienyl(triphenylphosphine)iron menthyl ester

Carbonyl(η^5 -2,4-cyclopentadien-1-yl)[2-[[5-methyl-2-(1-methylethyl)cyclohexyl]oxy]-2-oxoethyl](triphenylphosphine)iron, 9Cl. σ -Carboxymethyl- π -cyclopentadienyliron(triphenylphosphine) carbonyl menthyl ester



M 608.539

(*S*)_{Fe}-*form* [42992-04-1]

Orange-red cryst. (pentane). Mp 129-30°. [α]_D +330° (c, 0.1 in C₆H₆).

(*R*)_{Fe}-*form* [42936-43-6]

Orange-red cryst. (pentane). Mp 115-116.5°.

[α]₃₇₈ –309° (c, 0.1 in C₆H₆).

Flood, T.C. *et al*, *Inorg. Chem.*, 1976, **15**, 1910 (*synth, ir, pmr*)

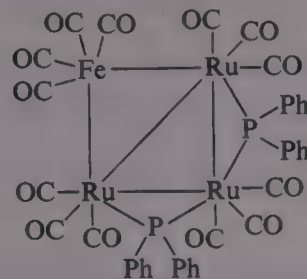
C₃₇H₂₀FeO₁₃P₂Ru₃

Fe-02120

Nonacarbonylbis[μ -(diphenylphosphino)](tetracarbonyliron)-triruthenium, 10Cl

Tridecacarbonylbis[μ (diphenylphosphino)]irontriruthenium

[79043-00-8]



M 1093.562

Dark-red cryst. (hexane/Et₂O).

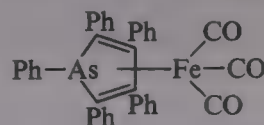
Churchill, M.R. *et al*, *J. Organomet. Chem.*, 1981, **213**, 139 (*synth, ir, struct*)

C₃₇H₂₅AsFeO₃

Fe-02121

Tricarbonyl[(2,3,4,5- η)-1,2,3,4,5-pentaphenylarsole]iron

Pentaphenylarsole iron tricarbonyl



M 648.371

Sl. yellow cryst. (EtOH). Mp 155-70° dec.

Braye, E.H. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 4406 (*synth, ir*)

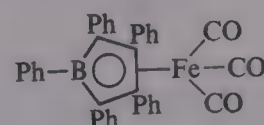
C₃₇H₂₅BFeO₃

Fe-02122

Tricarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentaphenyl-1*H*-borole]iron, 10Cl

Pentaphenylborole iron tricarbonyl

[60840-47-3]



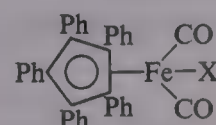
M 584.260

Pale-yellow cryst. (pentane/CH₂Cl₂). Sol. toluene, CH₂Cl₂; stable to H₂O. Mp 218-20°. Sensitive to light and air in soln.

Herberich, G.E. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1977, **16**, 42 (*synth, pmr, ir, ms*)

C₃₇H₂₅BrFeO₂

Fe-02123

Bromodicarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentaphenyl-2,4-cyclopentadien-1-yl]iron

X = Br

M 637.354

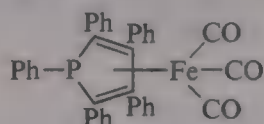
Dark-red needles (CH₂Cl₂/pet. ether). Mp >230° dec.

McVey, S. *et al*, *J. Chem. Soc.*, 1965, 4312 (*synth, ir*)

C₃₇H₂₅FeO₃P

Fe-02124

Tricarbonyl[(2,3,4,5-η)-1,2,3,4,5-pentaphenylphosphole]iron
(Pentaphenylphosphole)iron tricarbonyl

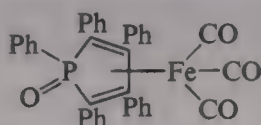


M 604.423

Yellow cryst. (Et₂O/EtOH). Mp 210-5° dec.Braye, E.H. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 4406 (*synth*, *ir*)C₃₇H₂₅FeO₄P

Fe-02125

Tricarbonyl[(2,3,4,5-η)-1,2,3,4,5-pentaphenylphosphole
oxide]iron
(Pentaphenylphosphole oxide)iron tricarbonyl



M 620.423

Yellow cryst. (Et₂O/pet. ether). Mp 226-35° dec.Braye, E.H. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 4406 (*synth*, *ir*)C₃₇H₂₆FeO₂

Fe-02126

Dicarbonylhydro[(1,2,3,4,5-η)-1,2,3,4,5-pentaphenyl-2,4-cy-
clopentadien-1-yl]iron

As Bromodicarbonyl[(1,2,3,4,5-η)-1,2,3,4,5-pentaphenyl-
2,4-cyclopentadien-1-yl]iron, Fe-02123 with

X = H

M 558.458

Yellow prisms (THF/AcOH). Mp 277-9° dec.

McVey, S. *et al*, *J. Chem. Soc.*, 1965, 4312 (*synth*, *ir*)C₃₇H₃₀ClFeNO₂P₂

Fe-02127

Carbonylchloronitrosylbis(triphenylphosphine)iron, 9Cl
[53789-74-5]

(Ph₃P)₂FeCl(CO)NO

M 673.897

Brown cryst. (Me₂CO).Carroll, W.E. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 1430
(*synth*, *ir*, *mössbauer*)C₃₇H₃₀FeNO₂P₂[⊖]

Fe-02128

Carbonylnitrosylbis(triphenylphosphine)ferrate(1-), 10Cl

[Fe(CO)(NO)(PPh₃)₂][⊖]

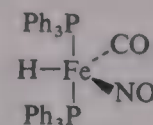
M 638.444 (ion)

Easily oxidised.

Roustan, J.L.A. *et al*, *J. Organomet. Chem.*, 1980, **184**, C13
(*synth*, *ir*)C₃₇H₃₁FeNO₂P₂

Fe-02129

Carbonylhydronitrosylbis(triphenylphosphine)iron, 10Cl
[72688-25-6]



M 639.452

Cryst. (C₆H₆/pentane).Roustan, J.L.A. *et al*, *J. Organomet. Chem.*, 1980, **184**, C13;
186, C23 (*synth*, *ir*, *pmr*, *nmr*)C₃₇H₃₃Fe₅O₁₂P₃

Fe-02130

(Carbon)dodecacarbonyltris(dimethylphenylphosphine)pen-
tairon, 9Cl
[56259-78-0]

Fe₅(CO)₁₂C(PMe₂Ph)₃

M 1041.817

Sites of substitution not known. Dark-brown.

Cooke, C.G. *et al*, *J. Organomet. Chem.*, 1975, **88**, 231 (*synth*,
ir, *pmr*)C₃₈H₃₀AuFeNO₃P₂

Fe-02131

Dicarbonylnitrosyl(triphenylphosphine)((triphenylphosphine)-
aurio]iron, 8Cl
[33989-39-8]

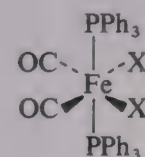
Ph₃PAuFe(CO)₂(PPh₃)NO

M 863.421

Red cryst. (C₆H₆/hexane). Dec. at 80°.Casey, M. *et al*, *J. Chem. Soc. (A)*, 1971, 2989 (*synth*, *ir*)C₃₈H₃₀Br₂FeO₂P₂

Fe-02132

Dibromodicarbonylbis(triphenylphosphine)iron, 9Cl, 8Cl
[15020-31-2]



X = Br

M 796.256

Moisture-sensitive reddish-orange cryst. Insol. pet. ether.
Unstable in soln.Hieber, W. *et al*, *Angew. Chem.*, 1956, **68**, 679 (*synth*, *ir*)Cohen, I.A. *et al*, *J. Inorg. Nucl. Chem.*, 1965, **28**, 511 (*synth*,
ir)Beck, W. *et al*, *Chem. Ber.*, 1966, **99**, 3721 (*ir*)Bancroft, G.M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 2103
(*synth*, *mössbauer*, *ir*)Nesmeyanov, A.N. *et al*, *Inorg. Chim. Acta*, 1978, **29**, L210
(*synth*)C₃₈H₃₀Cl₂FeO₂P₂

Fe-02133

Dicarbonyldichlorobis(triphenylphosphine)iron, 9Cl
[51779-68-1]

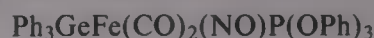
As Dibromodicarbonylbis(triphenylphosphine)iron, Fe-
02132 with

X = Cl

M 707.354

Moisture-sensitive reddish-orange cryst. Insol. pet. ether.
Unstable in soln.Hieber, W. *et al*, *Angew. Chem.*, 1956, **68**, 679 (*synth, ir*)Bancroft, G.M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 2103
(*synth, mössbauer, ir*)**C₃₈H₃₀FeGeNO₆P****Fe-02134****Dicarbonylnitrosyl(triphenylgermyl)(triphenyl phosphite-P)-iron***Dicarbonylnitrosyl(phosphorous acid)(triphenylgermyl)-iron, triphenyl ester, 8Cl*

[31276-17-2]



M 756.069

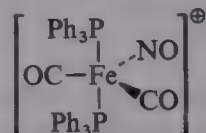
Yellow. Mp 135-8°.

Cleland, A.J. *et al*, *J. Chem. Soc. (A)*, 1971, 736 (*synth, ir*)**C₃₈H₃₀FeNO₃PSn****Fe-02135****Dicarbonylnitrosyl(triphenylphosphine)(triphenylstannyl)iron, 9Cl**

[31275-44-2]



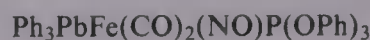
M 754.171

Red cryst. (C₆H₆/hexane). Mp 179° dec.Casey, M. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1971, 256
(*synth, ir*)**C₃₈H₃₀FeNO₃P₂[⊕]****Fe-02136****Dicarbonylnitrosylbis(triphenylphosphine)iron(1+), 10Cl**

M 666.454 (ion)

Hexafluorophosphate: [21374-47-0].C₃₈H₃₀F₆FeNO₃P₃ M 811.419Yellow cryst. (CH₂Cl₂/pentane or THF/Et₂O). Mp 190°.*Tetrafluoroborate*: [21374-46-9].C₃₈H₃₀BF₄FeNO₃P₂ M 753.258Yellow cryst. (THF/Et₂O).Crooks, G.R. *et al*, *J. Chem. Soc. (A)*, 1968, 1238 (*synth, ir*)Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 1268
(*synth*)Touchard, D. *et al*, *Inorg. Chim. Acta*, 1979, **33**, L141 (*synth, ir, pmr, nmr*)Baker, P.K. *et al*, *J. Chem. Soc., Chem. Commun.*, 1980, 775
(*synth, nmr*)Roustan, J.L.A. *et al*, *J. Organomet. Chem.*, 1980, **184**, C13
(*synth*)**C₃₈H₃₀FeNO₆PPb****Fe-02137****Dicarbonylnitrosyl(triphenyl phosphite-P)(triphenylplumbyl)-iron***Dicarbonylnitrosyl(phosphorous acid)(triphenylplumbyl)iron, triphenyl ester, 8Cl*

[31276-19-4]

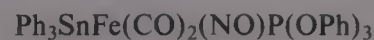


M 890.679

Orange cryst. Mp 139-40°.

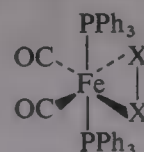
Cleland, A.J. *et al*, *J. Chem. Soc. (A)*, 1971, 736 (*synth, ir*)**C₃₈H₃₀FeNO₆PSn****Fe-02138****Dicarbonylnitrosyl(triphenyl phosphite-P)(triphenylstannyl)-iron***Dicarbonylnitrosyl(phosphorous acid)(triphenylstannyl)-iron, triphenyl ester, 8Cl*

[31276-18-3]



M 802.169

Yellow solid. Mp 131-3°.

Cleland, A.J. *et al*, *J. Chem. Soc. (A)*, 1971, 736 (*synth, ir*)**C₃₈H₃₀FeO₄P₂****Fe-02139****Dicarbonyl(dioxygen)bis(triphenylphosphine)iron**

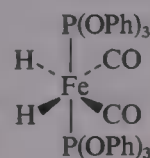
X = O

M 668.447

Characterised spectroscopically, unstable in soln.

Porta, F. *et al*, *J. Organomet. Chem.*, 1978, **150**, 261 (*synth, ir*)**C₃₈H₃₂FeO₈P₂****Fe-02140****Dicarbonyldihydrobis(triphenyl phosphite-P)iron, 9Cl**

[72573-42-3]

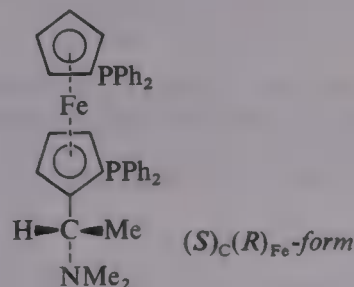


M 734.461

Colourless cryst. (pet. ether). Mp 68-9°, 81-2°.

Grant, S.M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1979, 1789
(*synth, ir*)Berke, H. *et al*, *Chem. Ber.*, 1981, **114**, 3549 (*synth, ir, pmr*)**C₃₈H₃₇FeNP₂****Fe-02141****1-(1-Dimethylaminoethyl)-1',2-bis(diphenylphosphino)ferrocene***1',2-Bis(diphenylphosphino)-α,N,N-trimethylferrocenemethylamine. BPPFA*

[55650-59-4]



M 625.512

(S)_c, (R)_{Fe}-form

Rh complex is a catalyst for asymmetric hydrogenation.

Mp 117.5°. [α]_D²⁵ +345° (c, 0.5 in CHCl₃).Hayashi, T. *et al*, *Tetrahedron Lett.*, 1974, 4405 (*synth*, *use*, *cd*)Kumada, M. *et al*, *CA*, 1976, **85**, 143275.Hayashi, T. *et al*, *Fundamental Research in Homogeneous Catalysis*, 1978, **2**, 159 (*synth*, *rev*)**C₃₈H₅₁FeN₄P****Fe-02142****Tetrakis(2-isocyano-2-methylpropane)(triphenylphosphine)-iron, 10Cl***Tetrakis(tert-butyl isocyanide)(triphenylphosphine)*

[66415-99-4]

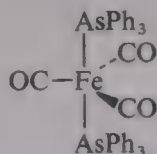


M 650.668

Deep-red cryst. (pet. ether).

Bassett, J.-M. *et al*, *J. Chem. Soc., Dalton Trans.*, 1979, 1003 (*synth*, *pmr*, *cmr*, *ir*)**C₃₉H₃₀As₂FeO₃****Fe-02143****Tricarbonylbis(triphenylarsine)iron, 9Cl, 8Cl**

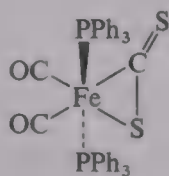
[14375-85-0]



M 752.354

trans-form [20516-72-7]Yellow needles (C₆H₆/MeOH). Mp 193-5° dec.*Inorg. Synth.*, 1966, **8**, 188 (*synth*)Adams, D.M. *et al*, *J. Chem. Soc. (A)*, 1968, 1067 (*synth*, *ir*)Farmery, K. *et al*, *J. Chem. Soc. (A)*, 1970, 634 (*synth*)Mosbaek, H., *Acta Chem. Scand., Ser. A*, 1975, **29**, 957 (*mössbauer*)Bellachioma, G. *et al*, *Inorg. Chem.*, 1982, **21**, 3232 (*synth*)**C₃₉H₃₀FeO₂P₂S₂****Fe-02144****(Carbon disulfide)dicarbonylbis(triphenylphosphine)iron, 9Cl**

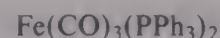
[64424-68-6]



M 712.579

Air-stable rust-red cryst. (CS₂/Et₂O). Mp 130-4° dec., 149° dec. Struct. determined for Me₃P-Ph₃P analogue.Baird, M.C. *et al*, *J. Chem. Soc. (A)*, 1967, 2037 (*synth*, *ir*)Conway, P. *et al*, *J. Chem. Soc., Dalton Trans.*, 1979, 1920 (*synth*)Le Bozec, H. *et al*, *Inorg. Chem.*, 1979, **17**, 2568 (*synth*, *struct*, *ir*, *pmr*, *nmr*)Gaffney, T.R. *et al*, *Inorg. Chem.*, 1982, **21**, 2851 (*synth*)Le Bozec, H. *et al*, *J. Org. Chem.*, 1982, **47**, 4000 (*use*)**C₃₉H₃₀FeO₃P₂****Fe-02145****Tricarbonylbis(triphenylphosphine)iron, 10Cl, 9Cl, 8Cl***Bis(triphenylphosphine)tricarbonyliron*

[14741-34-5]



M 664.459

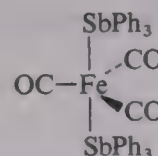
▷NO8600000.

trans-form [21255-52-7]

Catalyst for hydrogenation of nitro compds. to amines.

Golden-yellow cryst. (CH₂Cl₂/hexane or C₆H₆/pet. ether). Sol. org. solvs. Mp 272° dec. Stable to air and heat.Meriwether, L.S. *et al*, *J. Am. Chem. Soc.*, 1961, **83**, 3192 (*nmr*)Davison, A. *et al*, *J. Chem. Soc.*, 1962, 3653 (*synth*, *props*)*Inorg. Synth.*, 1966, **8**, 185 (*synth*)Cotton, J.D. *et al*, *Aust. J. Chem.*, 1969, **22**, 2673 (*ir*, *raman*)Knifton, J.F., *J. Org. Chem.*, 1976, **41**, 1200 (*use*)Mann, B.E. *et al*, *Adv. Organomet. Chem.*, 1974, **12**, 176, 196 (*cmr*)Graaf, J.L. *et al*, *Organometallics*, 1982, **1**, 837 (*ir*)**C₃₉H₃₀FeO₃Sb₂****Fe-02146****Tricarbonylbis(triphenylstibine)iron, 9Cl, 8Cl**

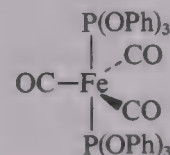
[14375-86-1]



M 846.011

trans-form [20516-73-8]Yellow-brown cryst. (C₆H₆/MeOH). Mp 196° dec.*Inorg. Synth.*, 1966, **8**, 185 (*synth*, *ir*)Adams, D.M. *et al*, *J. Chem. Soc. (A)*, 1968, 1067 (*synth*, *ir*)Mosbaek, H., *Acta Chem. Scand., Ser. A*, 1975, **29**, 957 (*mössbauer*)Bellachioma, G. *et al*, *Inorg. Chem.*, 1982, **21**, 3232 (*synth*)**C₃₉H₃₀FeO₉P₂****Fe-02147****Tricarbonylbis(triphenyl phosphite-P)iron, 9Cl***Tricarbonylbis(phosphorous acid)iron hexaphenyl ester, 8Cl*

[15526-65-5]



M 760.455

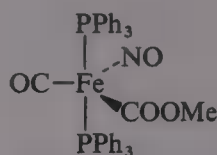
trans-form [20516-74-9]

Colourless or light-yellow cryst. (dimorph.). Mp 118° (colourless), 114-114.5° (light-yellow).

Adams, D.M. *et al*, *J. Chem. Soc. (A)*, 1968, 1067 (*synth*)Cotton, J.D. *et al*, *Aust. J. Chem.*, 1969, **22**, 2673 (*ir*)Strohmeier, W. *et al*, *Chem. Ber.*, 1969, **102**, 3613 (*synth*)Conder, H.L. *et al*, *Inorg. Chem.*, 1974, **13**, 506; *J. Organomet. Chem.*, 1974, **67**, 93 (*synth*, *ir*)Greatrex, R. *et al*, *J. Organomet. Chem.*, 1976, **114**, 199 (*mössbauer*)

C₃₉H₃₃FeNO₄P₂**Fe-02148****Carbonyl(methoxycarbonyl)nitrosylbis(triphenylphosphine)-iron, 9Cl**

[33792-25-5]

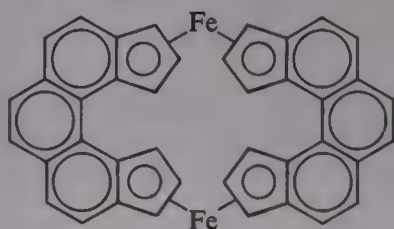


M 697.489

Buff-coloured cryst.

Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1972, 1268 (*synth, ir*)**C₄₀H₂₄Fe₂****Fe-02149****Bis[μ-[(6*a*,7,8,9*a*-η:9*d*,10,11,12,12*a*-η)-dicyclopenta[*c,g*-phenanthrene]]diiron, 10Cl**

[71636-98-1]

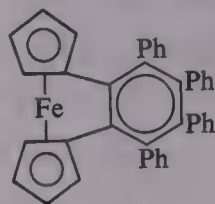


M 616.324

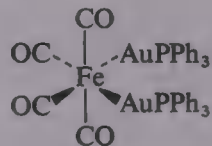
Red-brown solid (THF/hexane).

Katz, T.J. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 4259 (*synth, ir, ms*)**C₄₀H₂₈Fe****Fe-02150****1,1'-(5',6'-Diphenyl[1,1':2',1''-terphenyl]-3',4'-diyl)ferrocene, 10Cl***1,1'-(Tetraphenyl-o-phenylene)ferrocene*

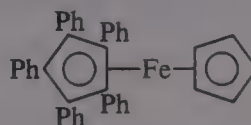
[61332-68-1]



M 564.508

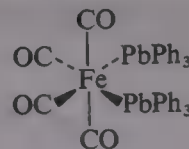
Air-stable orange cryst. (hexane/CH₂Cl₂). Mp 365-7°.Yasufuku, K. *et al*, *Inorg. Chem.*, 1977, **16**, 624 (*struct*)Yasufuku, K. *et al*, *J. Organomet. Chem.*, 1977, **127**, 197 (*synth, ms, pmr*)**C₄₀H₃₀Au₂FeO₄P₂****Fe-02151****Tetracarbonylbis[(triphenylphosphine)aurio]iron, 8Cl***Tetracarbonylbis[(triphenylphosphine)gold]iron, 10Cl*

M 1086.402

cis-form [16027-25-1]Pale-yellow cryst. (Me₂CO aq.). Sol. nonpolar solvs., v. sl. sol. polar solvs. Mp ca. 150° dec.Coffey, C.E. *et al*, *J. Chem. Soc.*, 1964, 1741 (*synth, ir*)Forster, A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1974, 1042 (*cmr*)Jones, P.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1977, 1434 (*mössbauer*)**C₄₀H₃₀Fe****Fe-02152****1,2,3,4,5-Pentaphenylferrocene***(η⁵-Cyclopentadienyl)(η⁵-pentaphenylcyclopentadienyl)-iron*

M 566.524

Orange needles (chlorobenzene). Mp 356-8°.

McVey, S. *et al*, *J. Chem. Soc.*, 1965, 4312 (*synth*)**C₄₀H₃₀FeO₄Pb₂****Fe-02153****Tetracarbonylbis(triphenylplumbyl)iron**

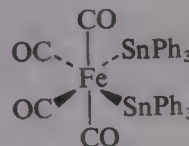
M 1044.922

cis-form

Yellow cryst. Dec. at 135-40°.

Hein, F. *et al*, *Justus Liebigs Ann. Chem.*, 1965, **684**, 4 (*synth*)**C₄₀H₃₀FeO₄Sn₂****Fe-02154****Tetracarbonylbis(triphenylstannyl)iron, 10Cl**

[14552-89-7]



M 867.902

Cis-form well-characterised; another prep. Mp 75° and 145-50° dec. (double Mp) also reported; not clear whether this is *cis*-, *trans*- or a mixt. Stereochemically nonrigid due to intramolecular CO group exchange.***cis-form*** [21868-08-6]

Light-yellow cryst. (toluene). Darkens 129-32° (75°), Mp 148.5-151.5° dec. then resolidifies and melts 215-9° to give a dark liq.

Hein, F. *et al*, *Justus Liebigs Ann. Chem.*, 1965, **684**, 4 (*synth*)Pomeroy, R.K. *et al*, *Inorg. Chem.*, 1977, **16**, 1508 (*cmr, cryst struct*)Burlitch, J.M. *et al*, *Inorg. Chem.*, 1979, **18**, 2309 (*synth, ir*)**C₄₀H₃₀Fe₂HgN₂O₆P₂****Fe-02155****Tetracarbonyl(mercury)dinitrosylbis(triphenylphosphine)di-iron, 9Cl***Tetracarbonyl-μ-mercuriodinitrosylbis(triphenylphosphine)diiron, 8Cl*

[28411-09-8]

(OC)₂(Ph₃P)(NO)Fe–Hg–Fe(PPh₃)(CO)₂NO

M 1008.918

Orange-yellow cryst. (C₆H₆). Dec. at 196°.

Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1963, **320**, 101 (*synth*)
Casey, M. *et al*, *J. Chem. Soc. (A)*, 1970, 2258 (*synth, ir*)
McAuliffe, C.A. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 2477 (*mössbauer*)

C₄₀H₃₃FeO₂P₂S₂[⊕] Fe-02156

Dicarbonyl[(methylthio)thioxomethyl]bis(triphenylphosphine)iron(1+), 10Cl

As [(Benzylthio)thioxomethyl]dicarbonylbis(trimethylphosphine)iron(1+), Fe-01457 with

R = Ph, R' = Me

M 727.614 (ion)

Hexafluorophosphate: [71004-19-8].

C₄₀H₃₃F₆FeO₂P₃S₂ M 872.578

Orange cryst. (CH₂Cl₂/hexane). Mp 115°.

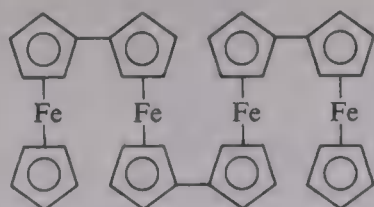
Touchard, D. *et al*, *Inorg. Chem.*, 1981, **20**, 1811 (*synth, ir, pmr, cmr*)

C₄₀H₃₄Fe₄

1,1'':1''',1''':1''''',1''''':1''''''-Quaterferrocene, 9Cl

1,1'-Quaterferrocene

[1299-15-6]



M 738.097

Yellow cryst. (C₆H₆). Mp 275-80° dec. Can be oxidised to the dication.

Watanabe, N. *et al*, *Bull. Chem. Soc. Jpn.*, 1966, **39**, 790 (*synth*)

Roling, P.V. *et al*, *J. Org. Chem.*, 1972, **37**, 729 (*synth, ms*)

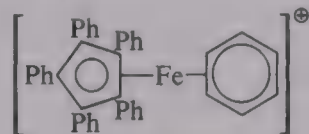
Brown, G.M. *et al*, *Inorg. Chem.*, 1975, **14**, 506.

Izumi, T. *et al*, *Bull. Chem. Soc. Jpn.*, 1975, **48**, 1955 (*synth, ir*)

C₄₁H₃₁Fe[⊕]

Fe-02158

(η⁶-Benzene)[(1,2,3,4,5-η)-1,2,3,4,5-pentaphenyl-2,4-cyclopentadien-1-yl]iron(1+)



M 579.543 (ion)

Bromide:

C₄₁H₃₁BrFe M 659.447

Orange prisms (Me₂CO). Mp 256-8° dec.

Iodide:

C₄₁H₃₁FeI M 706.447

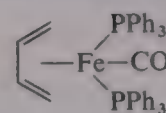
Orange needles (Me₂CO). Mp 253-4° dec.

McVey, S. *et al*, *J. Chem. Soc.*, 1965, 4312 (*synth*)

C₄₁H₃₆FeOP₂

Fe-02159

(η⁴-1,3-Butadiene)carbonylbis(triphenylphosphine)iron



M 662.529

Yellow cryst. Mp 156°.

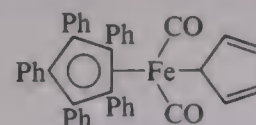
Chaudhari, F.M. *et al*, *J. Organomet. Chem.*, 1966, **5**, 73 (*synth, ir*)

C₄₂H₃₀FeO₂

Fe-02160

Dicarbonyl[η¹-(2,4-cyclopentadien-1-yl)](1,2,3,4,5-η)-1,2,3,4,5-pentaphenyl-2,4-cyclopentadien-1-yl]iron

σ-Cyclopentadienyl-π-pentaphenylcyclopentadienyldicarbonyliron



M 622.545

Orange-red prisms (CH₂Cl₂). Mp 343-5° dec. Thermally dec. to 1,2,3,4,5-Pentaphenylferrocene, Fe-02152.

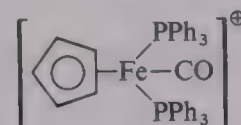
McVey, S. *et al*, *J. Chem. Soc.*, 1965, 4312 (*synth, ir*)

C₄₂H₃₅FeOP₂[⊕]

Fe-02161

Carbonyl(η⁵-2,4-cyclopentadien-1-yl)bis(triphenylphosphine)iron(1+), 10Cl

Carbonyl-π-cyclopentadienylobis(triphenylphosphine)iron(1+), 8Cl



M 673.532 (ion)

Hexafluorophosphate: [12104-28-8].

C₄₂H₃₅F₆FeOP₃ M 818.497

Orange cryst. (CH₂Cl₂ or Me₂CO aq.). Mp 186°.

Treichel, P.M. *et al*, *Inorg. Chem.*, 1966, **5**, 1177 (*synth, ir, pmr*)

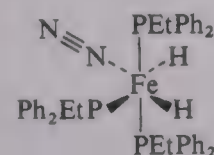
Johnson, B.V. *et al*, *Inorg. Chem.*, 1979, **18**, 1796 (*synth, ir, mössbauer*)

C₄₂H₄₇FeN₂P₃

Fe-02162

(Dinitrogen)tris(ethyldiphenylphosphine)dihydroiron, 9Cl

[22087-95-2]



M 728.615

Yellow cryst. (C₆H₆/pentane). Mp 88° dec.

Aresta, M. *et al*, *Inorg. Chim. Acta*, 1971, **5**, 203 (*synth, ir, pmr*)

Gerlach, D.H. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 4545 (*synth*)

Haszeldine, R.N. *et al*, *J. Chem. Soc., Dalton Trans.*, 1980, 705 (*use*)

C₄₃H₃₀FeGeO₃ Fe-02163**Tricarbonyl[(2,3,4,5- η)-1,1,2,3,4,5-hexaphenyl-1H-germole]iron, ¹⁰Cl**

[79132-92-6]

As Tricarbonyl[(2,3,4,5- η)-1-fluoro-1-methyl-2,3,4,5-tetraphenyl-1H-germole]iron, Fe-02059 with

M 723.145

Yellow to yellow-orange cryst. (hexane). Mp 218°.

Jutzi, P. *et al*, *J. Organomet. Chem.*, 1981, **215**, 27 (*synth*, *ir*, *pmr*, *ms*)**C₄₃H₃₀FeO₃Si Fe-02164****Tricarbonyl[(2,3,4,5- η)-1,1,2,3,4,5-hexaphenylsilacyclopenta-2,4-diene]iron**

[32649-35-7]

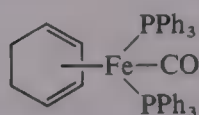
As Tricarbonyl[(2,3,4,5- η)-1,1-dimethyl-2,5-diphenylsilacyclopenta-2,4-diene]iron, Fe-01717 with

M 678.641

Red-orange cryst. (pet. ether). Mp 210°.

Brunet, J.-C. *et al*, *Bull. Soc. Chim. Fr.*, 1969, 3424 (*synth*, *ir*)**C₄₃H₃₈FeOP₂ Fe-02165****Carbonyl[(1,2,3,4- η)-1,3-cyclohexadiene]bis(triphenylphosphine)iron, ⁹Cl**

[59464-66-3]

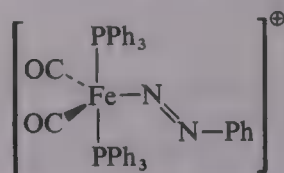


M 688.567

Yellow or orange cryst. (pentane). Mp 159° dec.

Chaudhari, F.M. *et al*, *J. Organomet. Chem.*, 1966, **5**, 73 (*synth*, *ir*)Johnson, B.F.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 421 (*synth*, *ir*, *pmr*)**C₄₄H₃₅FeN₂O₂P₂[⊕] Fe-02166****Dicarbonyl(phenylazo)bis(triphenylphosphine)iron(1+), ⁹Cl**

[54081-38-8]

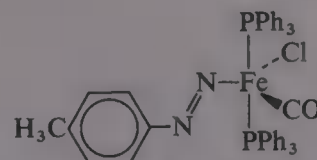


M 741.567 (ion)

Tetrafluoroborate: [41830-38-0].

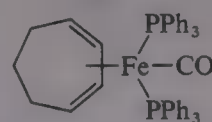
C₄₄H₃₅BF₄FeN₂O₂P₂ M 828.371Red-orange prisms (CH₂Cl₂/Et₂O). Mp 204-5°.Carroll, W.E. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 1754; 1974, 1837 (*synth*, *ir*, *pmr*, *nmr*)Haymore, B.L. *et al*, *Inorg. Chem.*, 1975, **14**, 1369 (*struct*)**C₄₄H₃₇ClFeN₂OP₂ Fe-02167****Carbonylchloro(4-methylphenylazo)bis(triphenylphosphine)iron***Carbonylchloro(4-methylbenzenediazonium)bis(triphenylphosphine)iron, ⁹Cl*

[53765-58-5]



M 763.037

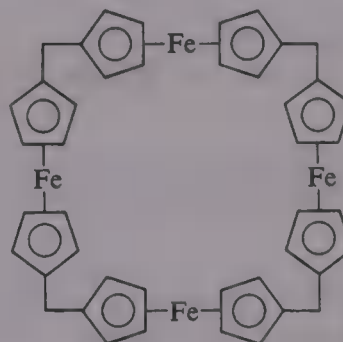
Brown cryst.

Carroll, W.E. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 1430 (*synth*, *ir*, *mössbauer*)**C₄₄H₄₀FeOP₂ Fe-02168****Carbonyl[(1,2,3,4- η)-1,3-cycloheptadiene]bis(triphenylphosphine)iron**

M 702.594

Yellow cryst. (CH₂Cl₂/pentane). Mp 138° dec.Chaudhari, F.M. *et al*, *J. Organomet. Chem.*, 1966, **5**, 73 (*synth*, *ir*, *pmr*)**C₄₄H₄₀Fe₄ Fe-02169****[1.1.1.1]Ferrocenophane, ⁹Cl**[1⁴]Ferrocenophane

[11106-19-7]



M 792.188

Yellow cryst. (toluene). Darkens at 265°.

Katz, T.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 2934 (*synth*, *pmr*, *ir*, *uv*, *ms*)**C₄₅H₃₃FeO₆ Fe-02170****Tris(1,3-diphenyl-1,3-propanedionato-O,O')iron, ⁹Cl***Tris(dibenzoylmethide)iron*

[14405-49-3]



M 725.599

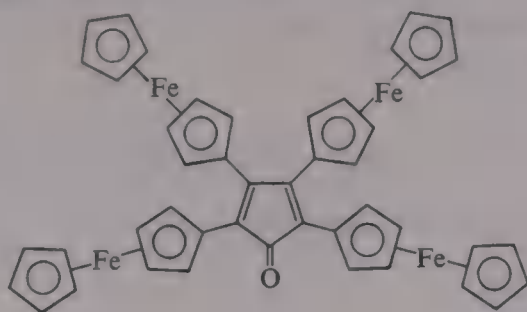
Catalyses cross-coupling of alkenyl halides with Grignard reagents. Red needles (C₆H₆/hexane). Mp 240° dec.Kochi, J.K. *et al*, *J. Org. Chem.*, 1975, **40**, 599; 1976, **41**, 502 (*synth*, *use*)Kaitner, B. *et al*, *Cryst. Struct. Commun.*, 1980, **9**, 487 (*cryst struct*)Fieser, M. *et al*, *Reagents for Organic Synthesis*, Wiley, 1967-83, **7**, 410 (*synth*, *use*)

C₄₅H₃₆Fe₄O

Fe-02171

2,3,4,5-Tetraferrocenyl-2,4-cyclopentadien-1-one, 8Cl

[12284-19-4]



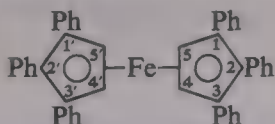
M 816.167

Blue cryst. Mp 263-5°.

Rosenblum, M. *et al*, *Tetrahedron Lett.*, 1967, 4421 (*synth*, *ir*, *pmr*)C₄₆H₃₄Fe

Fe-02172

1,1',2,2',3,3'-Hexaphenylferrocene

Bis(1,2,3-triphenyl- π -cyclopentadienyl)iron

M 642.622

Red prisms (PhCl). Mp 266-8°.

McVey, S. *et al*, *J. Chem. Soc.*, 1965, 4312 (*synth*)C₄₆H₃₄Fe

Fe-02173

1,1',2,2',4,4'-Hexaphenylferrocene

Bis(1,2,4-triphenyl- π -cyclopentadienyl)iron

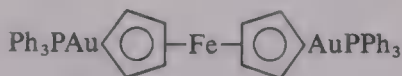
M 642.622

Red prisms (Me₂CO). Mp 227-8°.Pauson, P.L., *J. Am. Chem. Soc.*, 1954, **76**, 2187 (*synth*, *ir*)C₄₆H₃₈Au₂FeP₂

Fe-02174

1,1'-[Bis(triphenylphosphine)aurio]ferrocene, 9Cl

[41559-20-0]



M 1102.534

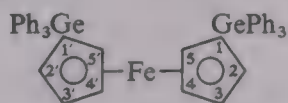
Cryst. (THF/hexane). Sol. C₆H₆, Et₂O. Mp 104-5°.

Dec. readily in soln. and solid state.

Perevelova, E.G. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1972, 2594 (*synth*)C₄₆H₃₈FeGe₂

Fe-02175

1,1'-Bis(triphenylgermyl)ferrocene



M 791.833

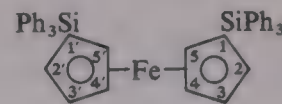
Orange cryst. Mp 244-5°.

Seyferth, D. *et al*, *Inorg. Chem.*, 1962, **1**, 227 (*synth*, *ir*)C₄₆H₃₈FeSi₂

Fe-02176

1,1'-Bis(triphenylsilyl)ferrocene

[12321-31-2]



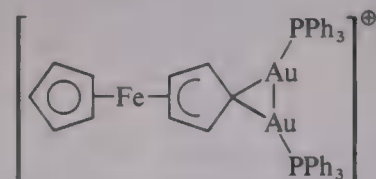
M 702.824

Orange cryst. (C₆H₆). Mp 253-4°.Benkeser, R.A. *et al*, *J. Am. Chem. Soc.*, 1954, **76**, 4025 (*synth*)
Osborne, A.G. *et al*, *J. Organomet. Chem.*, 1980, **193**, 345 (*cmr*, *mössbauer*, *uv*)C₄₆H₃₉Au₂FeP₂[⊕]

Fe-02177

[Bis(triphenylphosphine)digold](η^5 -2,4-cyclopentadien-1-yl)-
[μ_3 -[(1- η :1- η :1,2,3,4,5- η)-2,4-cyclopentadien-1-ylidene]]iron(1+), 9Cl

[51900-72-2]



M 1103.542 (ion)

Tetrafluoroborate: [39453-01-5].

C₄₆H₃₉Au₂BF₄FeP₂ M 1190.345Red cryst. Mod. sol. Me₂CO, CHCl₃, CH₂Cl₂, MeCN, insol. Et₂O, C₆H₆, THF. Mp 161-3° dec.

Sulfate:

C₉₂H₇₈Au₄Fe₂O₄P₄S M 2303.141

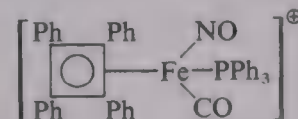
Mp 160° dec.

Andrianov, V.G. *et al*, *J. Chem. Soc., Chem. Commun.*, 1973, 338 (*cryst struct*)Nesmeyanov, A.N. *et al*, *Vestn. Mosk. Univ., Khim.*, 1973, **14**, 387; *CA*, **79**, 146613 (*synth*, *ir*, *uv*, *cryst struct*, *nmr*)Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1974, **65**, 131 (*synth*)Lemenovskii, D.A. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1975, 2105 (*pmr*)Nesmeyanov, A.N. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1978, 1122 (*nmr*)C₄₇H₃₅FeNO₂P[⊕]

Fe-02178

Carbonyl(η^4 -tetraphenylcyclobutadiene)nitrosyl(triphenylphosphine)iron(1+)Carbonyl[1,1',1'',1'''-(η^4 -1,3-cyclobutadiene-1,2,3,4-tetrayl)tetrakis(benzene)]nitrosyl(triphenylphosphine)-iron(1+), 9Cl

[49871-61-6]



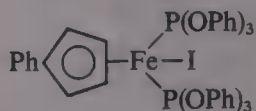
M 732.620 (ion)

Hexafluorophosphate: [43140-30-3].

C₄₇H₃₅F₆FeNO₂P₂ M 877.584Orange cryst. (CH₂Cl₂/hexane). Mp 175°.Efraty, A. *et al*, *Inorg. Chem.*, 1974, **13**, 1269 (*synth*, *ir*, *pmr*)

C₄₇H₃₉FeIO₆P₂**Fe-02179**

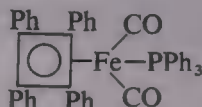
Iodo[(1,2,3,4,5-η)-1-phenyl-2,4-cyclopentadien-1-yl]bis(tri-phenyl phosphite-P)iron
Iodo(phenyl-π-cyclopentadienyl)bis(phosphorous acid)-iron hexaphenyl ester, 8Cl
 [33308-30-4]



M 944.521

Black cryst. (CH₂Cl₂/pet. ether).Green, M.L.H. *et al*, *J. Chem. Soc. (A)*, 1971, 1943 (*synth*)**C₄₈H₃₅FeO₂P****Fe-02180**

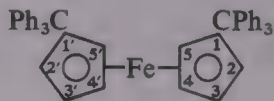
Dicarbonyl(tetraphenyl-1,3-cyclobutadiene)(triphenylphosphine)iron
Dicarbonyl[1,1',1'',1'''-[(1,2,3,4-η)-1,3-cyclobutadiene-1,2,3,4-tetrayl]tetrakis[benzene]](triphenylphosphine)iron, 10Cl
 [12213-47-7]



M 730.624

Yellow cryst. (hexane/CH₂Cl₂). Mp 220° dec.Chaudhari, F.M. *et al*, *J. Organomet. Chem.*, 1966, **5**, 73 (*synth*)Connolly, N.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1981, 34 (*synth*, *pmr*, *ir*, *polarog*)**C₄₈H₃₈Fe****Fe-02181**

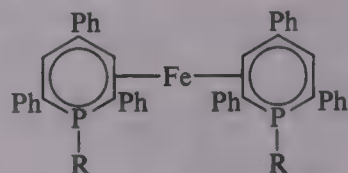
1,1'-Bis(triphenylmethyl)ferrocene
1,1'-Ditritylferrocene. Bis(trityl-π-cyclopentadienyl)iron



M 670.675

Pale-yellow solid or fine orange needles (C₆H₆/cyclohexane). Mp 286°. Bp_{0.0001} 240° subl.Little, W.F. *et al*, *J. Org. Chem.*, 1961, **26**, 3247 (*synth*)Neuse, E.W. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 1850 (*synth*)Pauson, P.L. *et al*, *J. Chem. Soc.*, 1966, 251 (*synth*)**C₄₈H₄₀FeP₂****Fe-02182**

Bis[(1,2,3,4,5,6-η)-1,1-dihydro-1-methyl-2,4,6-triphenyl-1-phosphorinyl]iron, 9Cl
Bis(1-methyl-2,4,6-triphenyl-λ⁵-phosphorinyl)iron
 [51751-62-3]

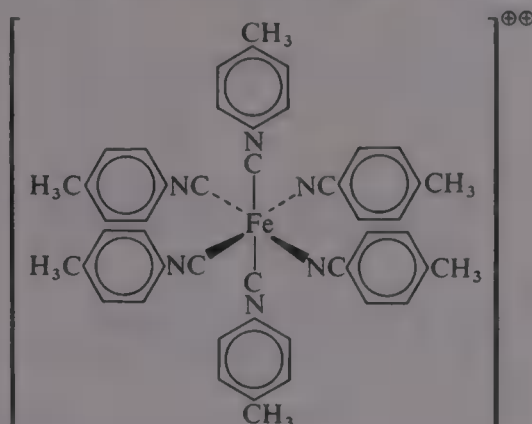


R = Me

M 734.639

Fine brown lustrous needles (C₆H₆/pet. ether). Mp 192°.Märkl, G. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1974, **13**, 408 (*synth*, *ms*, *pmr*, *nmr*)**C₄₈H₄₂FeN₆^{⊕⊕}****Fe-02183**

Hexakis(1-isocyano-4-methylbenzene)iron(2+)
Hexakis(p-tolyl isocyanide)iron(2+), 8Cl



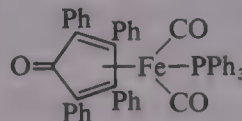
M 758.747 (ion)

Bis(tetraphenylborate): [26201-82-1].C₉₆H₈₂B₂FeN₆ M 1397.211

White cryst. Mp 175° dec.

Diperchlorate:C₄₈H₄₂Cl₂FeN₆O₈ M 957.648Ivory cryst. (CHCl₃/Et₂O). Mp 250°.Bonati, F. *et al*, *J. Organomet. Chem.*, 1970, **22**, 195 (*synth*, *ir*, *pmr*)**C₄₉H₃₅FeO₃P****Fe-02184**

Dicarbonyl[(2,3,4,5-η)-2,3,4,5-tetraphenyl-2,4-cyclopentadien-1-one](triphenylphosphine)iron, 10Cl
Dicarbonyl(tetracyclone)triphenylphosphineiron
 [75812-18-9]



M 758.634

Bright-yellow cryst. (C₆H₆/pet. ether). Mp 230° dec.Weiss, E. *et al*, *J. Inorg. Nucl. Chem.*, 1959, **11**, 42 (*synth*, *ir*)**C₅₀H₃₀Fe₅O₁₉P₂****Fe-02185**

(Carbon)tridecacarbonylbis(triphenyl phosphite)pentairon, 9Cl
 [56259-77-9]



M 1275.958

Sites of substitution not known. Dark-violet cryst.

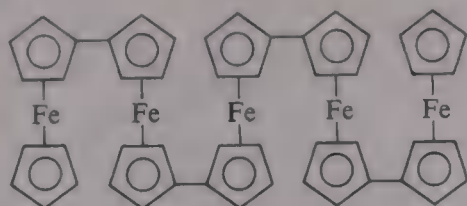
Cooke, C.G. *et al*, *J. Organomet. Chem.*, 1975, **88**, 231 (*synth*, *ir*, *pmr*)

The first digit of the Entry number defines the Supplement in which the Entry is found. 0 indicates the Main Work

C₅₀H₄₂Fe₅

Fe-02186

1,1'':1''',1''':1''''',1''''':1''''',1''''':1''''''',1''''''':1''''''''-Quinqueferrocene, 9Cl
1,1'-Quinqueferrocene
[1299-19-0]



M 922.117

Yellow cryst. (C₆H₆). Mp 262-4° (258-60°).

Watanabe, N. *et al*, *Bull. Chem. Soc. Jpn.*, 1966, **39**, 790
(*synth*)

Roling, P.V. *et al*, *J. Org. Chem.*, 1972, **37**, 729 (*synth, ms*)

Izumi, T. *et al*, *Bull. Chem. Soc. Jpn.*, 1975, **48**, 1955 (*synth, ir*)

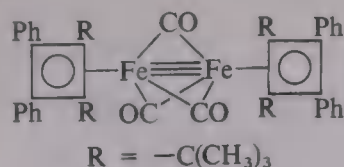
C₅₁H₅₆Fe₂O₃

Fe-02187

Tri-μ-carbonylbis(1,2-diphenyl-3,4-di-*tert*-butylcyclobutadiene)diiron

Bis[1,1'-(1,2,3,4-η)-3,4-bis(1,1-dimethylethyl)-1,3-cyclobutadiene-1,2-diyl]bis(benzene)]tri-μ-carbonyldiiron, 9Cl

[54386-46-8]



M 828.696

Photolysis product of Tricarbonyl(1,2-di-*tert*-butyl-3,4-diphenylcyclobutadiene)iron, Fe-01955. Violet cryst. Mp 204-5° dec.

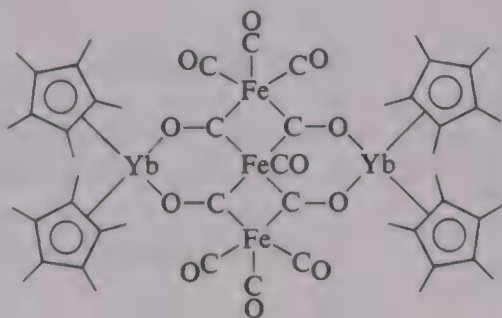
Murahashi, S-I *et al*, *J. Chem. Soc., Chem. Commun.*, 1974, 563 (*synth, struct, ir, pmr*)

C₅₁H₆₀Fe₃Yb₂

Fe-02188

Tetrakis[μ₃-(carbonyl-C,C,O)](heptacarbonyltriiron)tetrakis[(1,2,3,4,5-η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]diytterbium

[80878-91-7]



M 1186.656

Violet prisms. Sol. toluene. Mp 307-10°. μ_{eff} = 3.91 μ_B.

Tilley, T.D. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 1772 (*synth, struct, ir, nmr*)

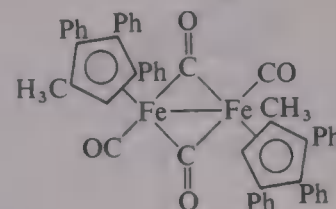
C₅₂H₃₈Fe₂O₄

Fe-02189

Di-μ-carbonyldicarbonylbis[(1,2,3,4,5-η)-1-methyl-2,3,4-triphenyl-2,4-cyclopentadien-1-yl]diiron, 9Cl

Bis[1-methyl-2,3,4-triphenylcyclopentadienyldicarbonyliron]. Tetracarbonylbis(1-methyl-2,3,4-triphenyl-1,4-cyclopentadienyl)diiron

[54497-50-6]



M 838.564

Dark-red cryst. (CH₂Cl₂/pentane).

Attig, T.G. *et al*, *J. Organomet. Chem.*, 1974, **82**, 397 (*synth, derivs*)

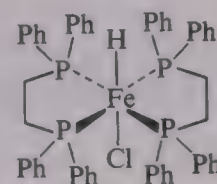
C₅₂H₄₉ClFeP₄

Fe-02190

Chlorobis[1,2-ethanediylbis(diphenylphosphine)-P,P']hydroiron, 9Cl

Chlorobis[ethylenebis(diphenylphosphine)]hydroiron, 8Cl. Bis[1,2-bis(diphenylphosphino)ethane]-chlorohydroiron

[32490-70-3]



M 889.154

trans-form [19392-93-9]

Fairly air-stable violet cryst. (C₆H₆/pet. ether). Dec. at 195°.

Hata, G. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 2278 (*synth*)

Inorg. Synth., 1977, **17**, 69 (*synth, ir*)

Ittel, S.D. *et al*, *Inorg. Chem.*, 1978, **17**, 3432 (*synth, nmr*)

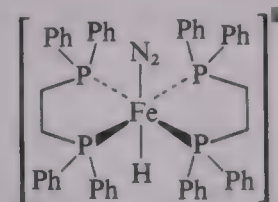
Mori, G. *et al*, *Chem. Lett.*, 1979, 425 (*mössbauer*)

C₅₂H₄₉FeN₂P₄[⊕]

Fe-02191

(Dinitrogen)bis[1,2-ethanediylbis(diphenylphosphine-P,P')]-hydroiron(1+), 9Cl

[1,2-Bis(diphenylphosphino)ethane](dinitrogen)hydroiron



M 881.715 (ion)

Perchlorate: [38831-76-4].

C₅₂H₄₉ClFeN₂O₄P₄ M 981.165

Yellow cryst.

Tetraphenylborate: [38831-75-3].

C₇₆H₆₉BFeN₂P₄ M 1200.947

No phys. props. reported.

Giannoccaro, P. *et al*, *J. Chem. Soc., Dalton Trans.*, 1975, 9 (*synth*)

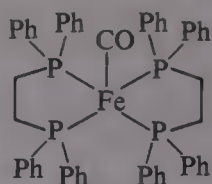
Inorg. Synth., 1977, **17**, 69.

Mori, G. *et al*, *Chem. Lett.*, 1979, 425 (*mössbauer, ir*)

Dilworth, J.R. *et al*, *Inorg. Chim. Acta*, 1981, **53**, L161 (*nmr*)

C₅₃H₄₈FeOP₄ Fe-02192

Carbonylbis[1,2-ethanediylbis(diphenylphosphine)-P,P']iron, 9Cl
Bis[bis(diphenylphosphino)ethane]carbonyliron
 [60105-56-8]

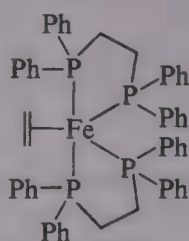


M 880.704

Yellow or orange cryst.

Cable, R.A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1976, 270 (*synth, ir*)Ittel, S.D. *et al*, *Inorg. Chem.*, 1978, **17**, 3432 (*synth, ir, nmr*)Zotti, G. *et al*, *J. Organomet. Chem.*, 1979, **181**, 375 (*synth, ir*)Maldotti, A. *et al*, *Inorg. Chim. Acta*, 1981, **54**, L271 (*synth*)**C₅₄H₅₂FeP₄ Fe-02193**

Bis[1,2-ethanediylbis(diphenylphosphine)-P,P'](η^2 -ethene)-iron, 10Cl
Bis[1,2-bis(diphenylphosphino)ethane](η^2 -ethylene)-iron
 [36222-39-6]



M 880.747

Sl. air-sensitive red or violet cryst. (C₆H₆/Et₂O). Sol. THF, sl. sol. Et₂O. Mp 164°, 170-1° dec.Hata, G. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 2278 (*synth, pmr, ir*)Jonas, K. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1979, **18**, 550 (*synth*)*Inorg. Synth.*, 1982, **21**, 91 (*synth, nmr*)**C₅₆H₄₅FeO₂P₃ Fe-02194**

Dicarbonyltris(triphenylphosphine)iron, 9Cl
 [15739-18-1]

As Dicarbonyltris(trimethyl phosphite-P)iron, Fe-00793 with

R = Ph

M 898.739

Air-stable orange prisms (C₆H₆/pet. ether). Sol. Me₂CO, THF, spar. sol. C₆H₆, Et₂O, insol. EtOH, dec. by CCl₄. Mp >115° dec.Hieber, W. *et al*, *Chem. Ber.*, 1965, **98**, 3931 (*synth, ir*)Carroll, W.E. *et al*, *J. Chem. Soc., Dalton Trans.*, 1974, 1430 (*synth, mössbauer*)Davis, R.E. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 7562.Cenini, S. *et al*, *Inorg. Chim. Acta*, 1976, **20**, 119 (*synth*)**C₅₆H₅₁FeP₃ Fe-02195**

Dimethyltris(triphenylphosphine)iron, 9Cl
 [40806-45-9]

Me₂Fe(PPh₃)₃

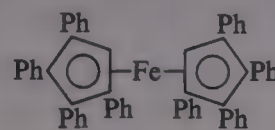
M 872.787

Initiates free radical polymerisation. Light-green cryst. Unstable above -10°. Protic solvs. and pyridine liberate CH₄, C₂H₆ and C₂H₄.

► Burns in air

Kubo, Y. *et al*, *J. Organomet. Chem.*, 1975, **84**, 369 (*synth, ir*)**C₅₈H₄₂Fe Fe-02196**

1,1',2,2',3,3',4,4'-Octaphenylferrocene
Bis(tetraphenyl- π -cyclopentadienyl)iron



M 794.817

Deep-red prisms (C₆H₆). Mp 322°.Weinmayr, V., *J. Am. Chem. Soc.*, 1955, **77**, 3012 (*synth*)McVey, S. *et al*, *J. Chem. Soc.*, 1965, 4312 (*synth*)**C₅₈H₄₄FeP₂ Fe-02197**

Bis[(1,2,3,4,5,6- η)-1,1-dihydro-1,2,4,6-tetraphenyl-1-phosphorinyl]iron, 9Cl
Bis(1,2,4,6-tetraphenyl- λ^5 -phosphorinyl)iron
 [51751-61-2]

As Bis[(1,2,3,4,5,6- η)-1,1-dihydro-1-methyl-2,4,6-triphenyl-1-phosphorinyl]iron, Fe-02182 with

R = Ph

M 858.780

Fine brown lustrous needles (C₆H₆/pet. ether). Mp 231°.Märkl, G. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1974, **13**, 408 (*synth, ms, pmr, nmr*)**C₅₉H₄₀Fe₂O₃ Fe-02198**

Tri- μ -carbonylbis(tetraphenylcyclobutadiene)diiron
Tri- μ -carbonylbis[1,1',1'',1'''-(η^4 -1,3-cyclobutadiene-1,2,3,4-tetrayl)tetrakis(benzene)]diiron, 9Cl
 [54343-67-8]

As Tri-

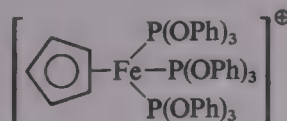
μ -carbonylbis(1,2-diphenyl-3,4-di-*tert*-butylcyclobutadiene)diiron, Fe-02187 with

R = Ph

M 908.657

Photolysis product of (Ph₄C₄)Fe(CO)₃. Dark-violet cryst. Mp 132-4° dec.Murahashi, S-I *et al*, *J. Chem. Soc., Chem. Commun.*, 1974, 563 (*synth, ir*)**C₅₉H₅₀FeO₉P₃[⊕] Fe-02199**

(η^5 -2,4-Cyclopentadien-1-yl)tris(triphenyl phosphite-P)-iron(1+)
 π -Cyclopentadienyltris(phosphorous acid)iron(1+) nonaphenyl ester



M 1051.807 (ion)

Tetrafluoroborate: [42161-90-0].

C₅₉H₅₀BF₄FeO₉P₃ M 1138.610

Yellow cryst. (Et₂O/pet. ether).

Thiocyanate: [33339-10-5].

C₆₀H₅₀FeNO₉P₃S M 1109.885

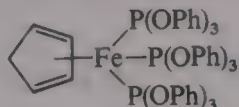
Yellow cryst. + Et₂O. Mp 146-7°.

Green, M.L.H. *et al*, *J. Chem. Soc. (A)*, 1971, 1943 (*synth*, *pmr*, *ir*)

C₅₉H₅₁FeO₉P₃

Fe-02200

(η^5 -2,4-Cyclopentadiene)tris(triphenyl phosphite)iron
(1,3-Cyclopentadiene)tris(phosphorous acid)iron nona-
phenyl ester, 8Cl
[33339-12-7]



M 1052.815

Yellow cryst. (Et₂O/pet. ether).

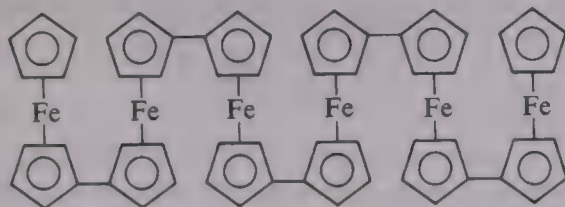
Green, M.L.H. *et al*, *J. Chem. Soc. (A)*, 1971, 1943 (*synth*, *pmr*)

C₆₀H₅₀Fe₆

1,1'-Sexiferrocene

[1299-20-3]

Fe-02201



M 1106.137

Yellow-brown solid (C₆H₆). Mp 270-2° (265-8° dec.).

Watanabe, N. *et al*, *Bull. Chem. Soc. Jpn.*, 1966, **39**, 790 (*synth*)

Roling, P.V. *et al*, *J. Org. Chem.*, 1972, **37**, 729 (*synth*, *ms*)

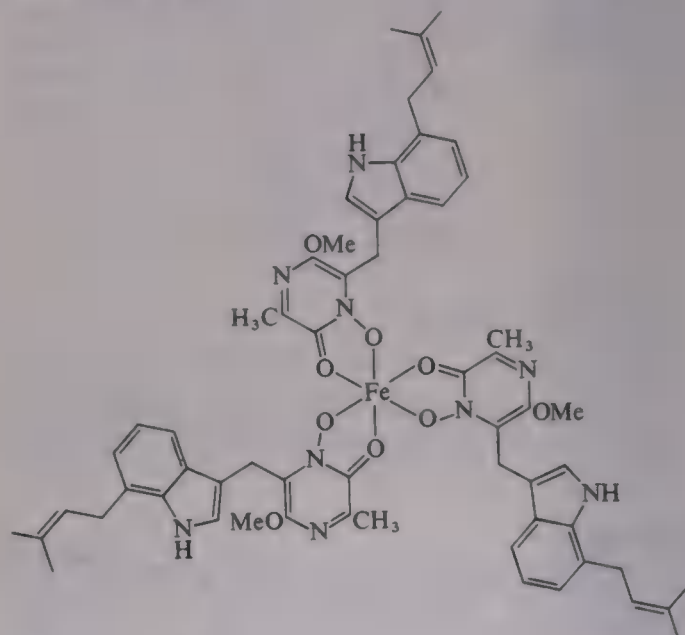
Izumi, T. *et al*, *Bull. Chem. Soc. Jpn.*, 1975, **48**, 1955 (*synth*, *ir*)

C₆₀H₆₆FeN₉O₉

Astechrome

[75310-10-0]

Fe-02202



M 1113.083

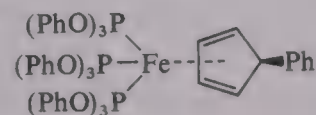
Isol. from *Aspergillus terreus* grown in the presence of Fe ions. Shows weak antibiotic activity. Dark-red needles. Mp 188-9° dec.

Arai, K. *et al*, *Chem. Pharm. Bull.*, 1981, **29**, 1510.

C₆₅H₅₅FeO₉P₃

Fe-02203

(5-Phenyl-1,3-cyclopentadiene)tris(triphenyl phosphite)iron
(5-Phenyl-1,3-cyclopentadiene)tris(phosphorous acid)-
iron nonaphenyl ester, 8Cl. [(η^5 -2,4-Cyclopentadien-1-
yl)benzene]tris(triphenyl phosphite)iron
[33339-13-8]



M 1128.912

exo-form

Yellow cryst. (Et₂O/pet. ether).

Green, M.L.H. *et al*, *J. Chem. Soc. (A)*, 1971, 1943 (*synth*, *pmr*)

C₇₂H₆₂FeO₁₂P₄

Fe-02204

Dihydrotetrakis(triphenyl phosphite-P)iron, 9Cl

As Dihydrotetrakis(triethyl phosphite-P)iron, Fe-01862
with

R = Ph

M 1299.017

Stereochemically non-rigid.

cis-form [38720-05-7]

Yellow cryst. (pet. ether).

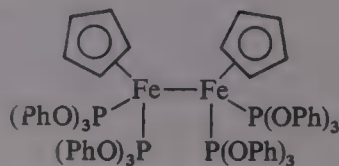
Gerlach, D.H. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 4545 (*synth*, *ir*, *pmr*)

Meakin, P. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 75 (*pmr*, *nmr*)

Tolman, C.A. *et al*, *Inorg. Chem.*, 1978, **17**, 2374 (*synth*)

C₈₂H₇₀Fe₂O₁₂P₄ Fe-02205

Bis(η⁵-2,4-cyclopentadien-1-yl)tetrakis(triphenyl phosphite-P)diiron, 10Cl, 9Cl
 Di-π-cyclopentadienyltetrakis(phosphorous acid)diiron dodecaphenyl ester, 8Cl
 [12336-73-1]



M 1483.037
 Orange cryst. (heptane). Mp 132-3°.
 Nesmeyanov, A.N. *et al*, *J. Organomet. Chem.*, 1967, **9**, 345 (synth, pmr, ir)

ClFeN₃O₃ Fe-02206

Chlorotrinitrosyliron, 10Cl
 [14972-71-5]



M 181.318
 Black-brown needles. Spar. sol. nonpolar solvs. Stable only in NO atmos.
 Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1940, **244**, 23 (synth)
 Hieber, W. *et al*, *Z. Naturforsch., B*, 1958, **13**, 194 (synth)
 Jahn, A., *Z. Anorg. Allg. Chem.*, 1959, **301**, 301 (ir)

Cl₂FeN₂O₂[⊖] Fe-02207

Dichlorodinitrosylferrate(1-), 9Cl
 [55679-70-4]



M 186.765 (ion)
 Paramagnetic.
 Tetraphenylarsonium salt: [79408-11-0].
 C₂₄H₂₀AsFeN₂O₂ M 499.203
 Red-brown needles (THF/pentane). Mp 144-6°.
 Bis(triphenylphosphine)iminium salt: [61045-72-5].
 C₃₆H₃₀Cl₂FeN₃O₂P₂ M 725.352
 Red-brown cryst. (EtOH/CH₂Cl₂). Mp 212-3°.
 Gwost, D. *et al*, *Inorg. Chem.*, 1973, **12**, 2095 (synth)
 Connelly, N.G. *et al*, *J. Chem. Soc., Dalton Trans.*, 1976, 1525 (synth, ir, esr)
 Schmidt, J. *et al*, *Transition Met. Chem.*, 1976, **1**, 256 (synth)
 Beck, W. *et al*, *Chem. Ber.*, 1981, **114**, 3184 (synth, ir)

Cl₂Fe₂N₄O₄ Fe-02208

Di-μ-chlorotetranitrosyldiiron, 9Cl

[21576-91-0]
 As Di-μ-bromotetranitrosyldiiron, Fe-00002 with
 X = Cl

M 302.624
 Dimerisation catalyst. Brown-black cryst.
 Monomer: Chlorodinitrosyliron.
 ClFeN₂O₂ M 151.312
 Unknown.

Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1940, **244**, 23 (synth)
 Beck, W. *et al*, *Chem. Ber.*, 1965, **98**, 2657 (ir)
 U.S.P., 3 481 710, (1969); *CA*, **72**, 45601 (synth)

Ballivet, D. *et al*, *J. Organomet. Chem.*, 1977, **124**, C9 (use)
 Tkatchenko, I., *J. Organomet. Chem.*, 1977, **124**, C39 (use)

F₆FeN₂O₂P₂ Fe-02209

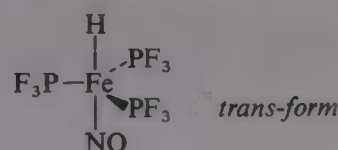
Dinitrosylbis(phosphorous trifluoride)iron, 9Cl
 [15020-30-1]



M 291.797
 Red-brown liq. Dec. at 118°.
 Kruck, T. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1964, **3**, 700 (synth, ir)
 Beck, W. *et al*, *Chem. Ber.*, 1966, **99**, 3721 (ir)
 Middleton, R. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 120 (synth)

F₉FeHNOP₃ Fe-02210

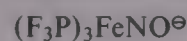
Hydronitrosyltris(phosphorus trifluoride)iron, 8Cl



M 350.768
trans-form [19033-83-1]
 Extremely volatile orange liq.
 Kruck, T. *et al*, *Chem. Ber.*, 1966, **99**, 3794 (synth, ir, nmr)

F₉FeNOP₃[⊖] Fe-02211

Nitrosyltris(phosphorous trifluoride)ferrate(1-)

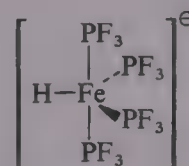


M 349.760 (ion)
K salt: [15389-53-4].
 F₉FeKNOP₃ M 388.858
 Yellow cryst.
 Cobaltocenium salt: [12116-69-7].
 C₁₀H₁₀CoF₉FeNOP₃ M 538.882
 Yellow powder.
 Kruck, T. *et al*, *Chem. Ber.*, 1966, **99**, 3794 (synth, ir, nmr)

F₁₂FeHP₄[⊖] Fe-02212

Hydrotetrakis(phosphorous trifluoride)ferrate(1-), 9Cl

[38162-28-6]

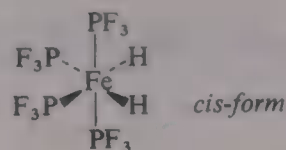


M 408.731 (ion)
K salt: [39584-17-3].
 F₁₂FeHKP₄ M 447.829
 Cryst. (Et₂O/pentane). Mp 205° dec.
 Tetraethylammonium salt: [39733-49-8].
 C₈H₂₁F₁₂FeNP₄ M 538.983
 Mp 210° dec.
 Kruck, T. *et al*, *Chem. Ber.*, 1972, **105**, 3765, 3772 (synth, nmr, mössbauer)

F₁₂FeH₂P₄

Fe-02213

Dihydrotetrakis(phosphorous trifluoride)iron, 9Cl
[39584-18-4]



M 409.739

Exists as a mixt. of *cis*- and *trans*-isomers at -70° . Colourless, v. volatile liq., thermally v. stable. Mp 87° .

Kruck, T. *et al*, *Z. Anorg. Chem. Allg. Chem.*, 1969, **371**, 1 (*synth, ir, nmr*)

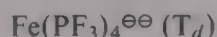
Kruck, T. *et al*, *Chem. Ber.*, 1972, **105**, 3772 (*synth, pmr, nmr, mössbauer*)

Meakin, P. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 75 (*nmr, pmr*)

F₁₂FeP₄^{⊖⊖}

Fe-02214

Tetrakis(phosphorous trifluoride)ferrate(2-), 9Cl



M 407.723 (ion)

Di-K salt: [27906-63-4].

F₁₂FeK₂P₄ M 485.919

Cryst. (Et₂O/THF). Mp 250° dec.

Kruck, T. *et al*, *Chem. Ber.*, 1972, **105**, 3765, 3772 (*synth, nmr, mössbauer*)

F₁₅FeP₅

Fe-02215

Pentakis(phosphorous trifluoride)iron, 13Cl, 8Cl
[13815-34-4]



M 495.692

Stereochemically nonrigid. Faintly yellow cryst. Sol. common org. solvs. Mp 44° . Stable for a short time in air.

Clark, R.J. *et al*, *Inorg. Chem.*, 1964, **3**, 1395 (*synth*)

Kruck, T. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1964, **3**, 754 (*synth, ir*)

Bigorgne, M. *et al*, *Rev. Chim. Miner.*, 1966, **3**, 381 (*ir*)

Timms, P.L., *J. Chem. Soc. (A)*, 1970, 2536 (*synth*)

Meakin, P. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 5271 (*nmr*)

FeIN₃O₃

Fe-02216

Iodotrinitrosyliron



M 272.770

Black cryst. Sol. nonpolar solvs.

Hieber, W. *et al*, *Z. Naturforsch., B*, 1958, **13**, 194 (*synth*)

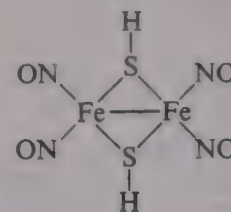
Jahn, A., *Z. Anorg. Allg. Chem.*, 1959, **301**, 301 (*ir*)

Fe₂H₂N₄O₄S₂

Fe-02217

Bis(μ-hydrothioxo)tetranitrosyldiiron

Di-μ-mercaptotetranitrosyldiiron. Roussin's red acid
[79408-08-5]



M 297.854

The "acid" of Roussin's red salt. Light- and air-sensitive red-black cryst. (pentane). Sol. C₆H₆, pet. ether. Mp $>100^{\circ}$ dec.

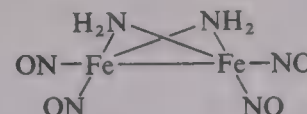
Beck, W. *et al*, *Chem. Ber.*, 1981, **114**, 3184 (*synth, ir, ms*)

Fe₂H₄N₆O₄

Fe-02218

Di-μ-amidotetranitrosyldiiron, 10Cl

[73199-20-9]



M 263.763

Golden-brown air- and water-stable cryst. Spar. sol. most org. solvs. Mp 176° dec.

Hieber, W. *et al*, *Z. Anorg. Allg. Chem.*, 1962, **317**, 63 (*synth, ir*)

Haines, B.W. *et al*, *Inorg. Chem.*, 1980, **19**, 1565 (*synth, ir, pmr, ms*)

Fe₂I₂N₄O₄

Fe-02219

Di-μ-iodotetranitrosyldiiron, 9Cl

[52394-44-2]

As Di-μ-bromotetranitrosyldiiron, Fe-00002 with



M 485.527

Dense, black air-sensitive lustrous cryst. Bp₁ 90° subl.

Monomer: Iododinitrosyliron.

FeIN₂O₂ M 242.764

Unknown.

Soling, H. *et al*, *Acta Chem. Scand.*, 1957, **11**, 1534 (*synth*)

Jahn, A., *Z. Anorg. Allg. Chem.*, 1959, **301**, 301 (*ir*)

Dahl, L.F. *et al*, *J. Am. Chem. Soc.*, 1969, **91**, 1653 (*cryst struct*)

Cullen, W.R. *et al*, *Inorg. Chem.*, 1971, **10**, 1616 (*mössbauer*)

Birchall, T. *et al*, *J. Chem. Soc., Dalton Trans.*, 1973, 2521 (*mössbauer*)

Inorg. Synth., 1973, **14**, 81 (*synth, ir*)

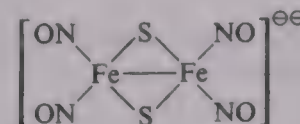
Pignataro, S. *et al*, *Gazz. Chim. Ital.*, 1974, **104**, 97 (*ms*)

Fe₂N₄O₄S₂^{⊖⊖}

Fe-02220

Tetranitrosyldi-μ-thioxodiferrate(2-), 9Cl

Bis(dinitrosylthioferrate)(2-)



M 295.838 (ion)

First metal complex to be prepd. Aq. soln. stable only at v. high pH.

Di-Na salt: [58204-17-4]. *Roussin's red salt*.

$\text{Fe}_2\text{N}_4\text{Na}_2\text{O}_4\text{S}_2$ M 341.818

Black-red cryst. or reddish-brown powder + $4\text{H}_2\text{O}$.

Sol. H_2O , EtOH, insol. Et_2O .

Bis(tetraphenylarsonium) salt:

$\text{C}_{48}\text{H}_{40}\text{As}_2\text{N}_4\text{O}_4\text{S}_2$ M 950.832

Ochre-yellow solid. Spar. sol. THF, dec. by Me_2CO , CH_2Cl_2 . Mp $215-7^\circ$.

Roussin, J., *Ann. Chim. Phys.*, 1858, **52**, 285 (*synth*)

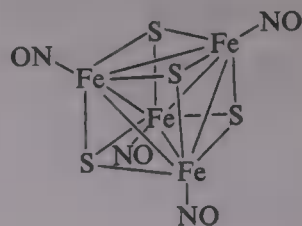
Brauer, G., *Handbook of Prep. Inorg. Chem.*, 2nd Ed., Acad. Press, NY, 1963, 1763 (*synth*)

Beck, W. *et al*, *Chem. Ber.*, 1981, **114**, 3184 (*synth, ir*)

$\text{Fe}_4\text{N}_4\text{O}_4\text{S}_4$

Tetranitrosyltetra- μ_3 -thioxotetrairon, 9Cl

[53276-80-5]



M 471.652

Diamagnetic. Reduced by Na/Hg to Heptanitrosyltri- μ_3 -thioxotetraferrate(1-), Fe-02222.

Gall, R.S. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 4019 (*synth, struct, ir*)

Sedney, D. *et al*, *Inorg. Chim. Acta*, 1979, **34**, 231 (*mössbauer*)

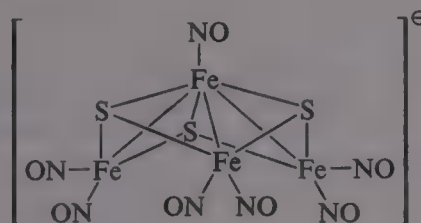
$\text{Fe}_4\text{N}_7\text{O}_7\text{S}_3^\ominus$

Fe-02222

Heptanitrosyltri- μ_3 -thioxotetraferrate(1-), 9Cl, 8Cl

Roussin black monoanion

[12518-87-5]



M 529.611 (ion)

Exhibits antimicrobial activity.

NH₄ salt: [54724-04-8]. *Ammonium heptanitrosyl trithiotetraferrate*. *Roussin's black ammonium salt*.

$\text{FeH}_4\text{N}_8\text{O}_7\text{S}_3$ M 380.108

Black cryst. (EtOH aq.). Sol. H_2O . Stable to 80° .

Tetraethylammonium salt: [12556-11-5].

$\text{C}_8\text{H}_{20}\text{Fe}_4\text{N}_8\text{O}_7\text{S}_3$ M 659.863

Dark brown-black cryst. ($\text{Me}_2\text{CO}/\text{CHCl}_3/2$ -propanol). Mp $198-200^\circ$.

Tetraphenylarsonium salt: [63704-10-9].

$\text{C}_{24}\text{H}_{20}\text{AsFeN}_7\text{O}_7\text{S}_3$ M 745.413

Olive green or black cryst. ($\text{Me}_2\text{CO}/\text{Et}_2\text{O}$).

Roussin, L., *Justus Liebigs Ann. Chem.*, 1858, **107**, 120 (*synth*)

Seel, F., *Handbook of Preparative Inorg. Chem.*, 2nd Ed., 1965, **2**, 1763 (*synth*)

Ashworth, J. *et al*, *J. Gen. Microbiol.*, 1974, **84**, 403 (*use*)

Chu, C.T.-W. *et al*, *Inorg. Chem.*, 1977, **16**, 3245 (*synth, cryst struct, bibl*)

Sedney, D. *et al*, *Inorg. Chim. Acta*, 1979, **34**, 231 (*synth, mössbauer*)

Beck, W. *et al*, *Chem. Ber.*, 1981, **114**, 3184 (*synth, ir*)

Glidewell, C. *et al*, *Inorg. Chim. Acta*, 1982, **64**, L171 (*synth*)

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(η^6 -Benzene)[(2,3,4,5,6- η)-2,2-diethyl-1,4,5,6-tetrahydro-2,3-dicarbahexaborato(2-)]iron, Fe-00973
 $[\mu$ -[1,2-Benzenedithiolato(2-)-*S,S':S,S'*]]hexacarbonyldiiron, Fe-00951
1,3-Benzenediylbisferrocene, *see* Fe-01927
(η^6 -Benzene)[(1,2,3,4,5,6- η)-1-(ethoxycarbonyl)-2,4-cyclopentadien-1-yl]iron(1+) tetraphenylborate, *in* Fe-00847
(η^6 -Benzene)[(1,2,3,4,5- η)-1-ferrocenyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-01720
(η^6 -Benzene)[(1,2,3,4,5- η)-1-methoxy-2,4-cyclopentadien-1-yl]iron(1+), Fe-00930
(η^6 -Benzene)[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-00923
(η^6 -Benzene)[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, Fe-01439
(η^6 -Benzene)[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-01440
(η^6 -Benzene)[(1,2,3,4,5- η)-1,2,3,4,5-pentaphenyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-02158
(η^6 -Benzene)[(1,2,3,4,5- η)-1-phenyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-01489
(Benzeneselenolato)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01020
(Benzenesulfonyl)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01028
(Benzenetellurolato)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01021
 $[\mu$ -[1,2,4,5-Benzenetetrayltetrakis(dimethylsilylene)]]octacarbonyldiiron, Fe-01774
(Benzenethiolato)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01019
(Benzenethiolato)ferrocene, Fe-01406
(η^6 -Benzenethiol)(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00747
1,1'',1''''-(1,2,4-Benzenetriyl)trisferrocene, *see* Fe-02116
1,1'',1''''-(1,3,5-Benzenetriyl)trisferrocene, *see* Fe-02117
1*H*-Benzimidazol-2-ylferrocene, Fe-01480

- [(1,2,3,4,5,6- η)-Benzoato](η^5 -2,4-cyclopentadien-1-yl)-iron(1+) compd. with $\text{HPF}_6(1:1)$, *in* Fe-00883
- μ -(Benzo[*c*]cinnoline- N^5, N^6)- μ -carbonylhexacarbonyldiiron, Fe-01592
- μ -(Benzo[*c*]cinnoline- $N^5, N^6:N^5, N^6$)]hexacarbonyldiiron, *see* Fe-01515
- η^2 -1,2-Benzocyclobutadiene- η^5 -cyclopentadienyldicarbonyliron(1+), *see* Fe-01302
- (Benzocyclobutadiene)dicarbonylnitrosyliron(1+), *see* Fe-00492
- (Benzocyclobutadiene)dicarbonyl(triphenylphosphine)iron, *see* Fe-01960
- Benzocyclobutadiene(tricarbonyl)iron, *see* Fe-00662
- [(5,6,7,8- η)-Benzocyclooctatetraene]tricarbonyliron, Fe-01298
- (Benzocyclooctene)tricarbonyliron, *see* Fe-01298
- 1,3-Benzodioxol-2-ylidenetetracarbonyliron, Fe-00655
- Benzoferrocene, *see* Fe-01175
- unsym*-Benzoferrole, *see* Fe-01141
- [(1,2,3,4,5,6- η)-Benzoic acid](η^5 -2,4-cyclopentadien-1-yl)-iron(1+), Fe-00883
- [(1,2,3,4,5,6- η)-Benzonitrile](η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00845
- 2-Benzoxazolylferrocene, Fe-01478
- (Benzoxepin)tricarbonyliron, Fe-01007
- Benzoyldicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01151
- Benzoyldicarbonylnitrosyl(triphenylphosphine)iron, Fe-01946
- Benzoylferrocene, Fe-01481
- Benzoyl(ferrocenyl)methane, *see* Fe-01625
- 1-Benzoyl-2-ferrocenylethylene, *see* Fe-01623
- Benzoylmethylferrocene, Fe-01562
- Benzoyloxyferrocene, *in* Fe-00567
- Benzoyltetracarbonylferrate(1-), Fe-00659
- 2-Benzoyl-3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene, *see* Fe-01630
- β -Benzoylvinylferrocene, *see* Fe-01623
- Benzylcarbonyl- π -cyclopentadienyl(triphenylphosphine)iron, Fe-02034
- (η^5 -Benzylcyclopentadienyl)bromodicarbonyliron, Fe-01168
- σ -Benzyl- π -cyclopentadienylcarbonyl(triphenylphosphine)iron, *see* Fe-02034
- (η^1 -Benzyl)(η^5 -cyclopentadienyl)dicarbonyliron, *see* Fe-01177
- σ -Benzyl- π -cyclopentadienyliron dicarbonyl, *see* Fe-01177
- Benzylcyclopentadienyliron dicarbonyl bromide, *see* Fe-01168
- Benzylidicarbonyl- π -cyclopentadienyliron, Fe-01177
- Benzylidicarbonyl[(1,2,3,3*a*,7*a*- η)-1*H*-inden-1-yl]iron, Fe-01537
- Benzylidiphenylferrocenylphosphonium(1+), Fe-01994
- (Benzylidiphenylphosphonio)ferrocene(1+), *see* Fe-01994
- Benzylferrocene, Fe-01492
- Benzyl ferrocenyl ketone, *see* Fe-01563
- (Benzylideneacetone)tricarbonyliron, *see* Fe-01025
- (*N*-Benzylideneaniline)hexacarbonyldiiron, *see* Fe-01594
- Benzylidenecarbonyl(η^5 -cyclopentadienyl)-(triphenylphosphine)iron(1+), Fe-02032
- Benzylidenedicarbonyl(η^5 -cyclopentadienyl)iron(1+), Fe-01172
- μ -(*N*-Benzylidene-4-methylaniline)hexacarbonyldiiron, Fe-01650
- μ -(*N*-Benzylidene-*p*-toluidine)hexacarbonyldiiron, *see* Fe-01650
- (2-Benzylidenetrimethylene)tricarbonyliron, *see* Fe-01023
- σ -Benzyl- π -indenyldicarbonyliron, *see* Fe-01537
- Benzyl(methyl- π -cyclopentadienyl)dicarbonyliron, Fe-01331
- Benzylpentamethyl- η^5 -cyclopentadienyldicarbonyliron, Fe-01635
- Benzyltetracarbonylferrate(1-), Fe-00669
- [(Benzylthio)thioxomethyl]-dicarbonylbis(trimethylphosphine)iron(1+), Fe-01457
- [(1,1',2,2',3,3',4*a*,4'*a*,8*a*,8'*a*- η)-[6,6'-Biazulene]diyl]iron, Fe-01657
- μ -(Bi-1,3-cyclobutadien-1-yl)]hexacarbonyldiiron, Fe-01139
- [[2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene]-carbonylcobalt]di- μ -carbonylcarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01394
- [(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene-2-carboxaldehyde]tricarbonyliron, Fe-00679
- [(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene][1-[1-(dimethylamino)ethyl]-2-diphenylphosphino]ferrocene-*N,P*-rhodium(1+), Fe-02086
- [(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene-7-ol]tricarbonyliron, Fe-00530
- [(1,5,6,7- η)-Bicyclo[3.2.0]hepta-5,7-diene]tricarbonyliron, Fe-00525
- [(2,3,4,5- η)-Bicyclo[4.1.0]hepta-2,4-diene]tricarbonyliron, Fe-00526
- [(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene]tricarbonyliron, Fe-00524
- [(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-dien-7-one]tricarbonyliron, *in* Fe-00530
- [2-[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-dien-7-yl]ethanol]tricarbonyliron, Fe-00910
- [(1,5,6,7- η)-Bicyclo[3.2.0]hepta-2,5,7-triene]tricarbonyliron, Fe-00493
- μ -[(2,3,4,5,6- η :2',3',4',5',6'- η)-[bi-3,5-cyclohexadien-1-yl]-2,2'-diyl]]bis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01770
- (Bicyclo[4.3.0]nona-1,5-diene)tricarbonyliron, *see* Fe-00907
- (Bicyclo[4.3.0]nona-2,4-diene)tricarbonyliron, *see* Fe-00909
- (Bicyclo[4.3.0]nona-1(6),2-diene)tricarbonyliron, *see* Fe-00908
- (Bicyclo[4.3.0]nona-1,3,6,8-tetraene)tricarbonyliron, *see* Fe-00830
- [(1,7,8,9- η)-Bicyclo[5.2.0]nona-2,4,7,9-tetraene]tricarbonyliron, Fe-00828
- [(1,7,8,9- η)-Bicyclo[5.2.0]nona-2,5,7,9-tetraene]tricarbonyliron, Fe-00829
- [(1,7,8,9- η)-Bicyclo[5.2.0]nona-2,5,7,9-tetraen-4-one]tricarbonyliron, Fe-00815
- [(1,7,8,9- η)-Bicyclo[5.2.0]nona-3,5,7,9-tetraen-2-one]tricarbonyliron, Fe-00816
- [(2,3,6,7- η)-Bicyclo[6.1.0]nona-2,4,6-triene]tricarbonyliron, Fe-00853
- [(2,3,4,6,7- η)-Bicyclo[3.2.2]nona-3,6,8-trien-2-yl]tricarbonyliron(1+), Fe-00842
- [(2,3,4,5- η)-Bicyclo[4.2.0]octa-2,4-diene][(1,2,3,4,5,6- η)-1,3,5-cyclooctatriene]iron, Fe-01432
- [(2,3,4,6,7- η)-Bicyclo[3.2.1]octa-3,6-diene-2,8-diyl]tricarbonyliron(1+), Fe-00699
- [(2,3,4,8- η)-Bicyclo[3.2.1]octa-3,6-diene-2,8-diyl]tricarbonyliron, Fe-00672
- [(2,3,4,5- η)-Bicyclo[4.2.0]octa-2,4-diene]tricarbonyliron, Fe-00712
- [(2,3,4,5- η)-Bicyclo[5.1.0]octa-2,4-diene]tricarbonyliron, Fe-00713
- [(2,3,6,7- η)-Bicyclo[3.2.1]octa-3,6-diene]tricarbonyliron, Fe-00714
- [(2,3,4,5- η)-Bicyclo[4.2.0]octa-2,4-dien-7-one]tricarbonyliron, Fe-00680
- [(3,4,5,6- η)-Bicyclo[5.1.0]octa-3,5-dien-2-one]tricarbonyliron, Fe-00681
- π -Bicyclo[5.1.0]octadienylumtricarbonyliron(1+), *see* Fe-00700
- [(2,3,4,5,6- η)-Bicyclo[5.1.0]octa-3,5-dien-2-yl]tricarbonyliron(1+), Fe-00700
- [(2,3,4,6,7- η)-Bicyclo[3.2.1]octa-3,6-dien-2-yl]tricarbonyliron(1+), *see* Fe-00699
- [(7,8- η)Bicyclo[4.2.0]octa-1,3,5,7-tetraene]dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-01302
- [(1,6,7,8- η)-Bicyclo[4.2.0]octa-1,3,5,7-tetraene]dicarbonylnitrosyliron(1+), Fe-00492
- [(1,6,7,8- η)-Bicyclo[4.2.0]octa-1,3,5,7-tetraene]-dicarbonyl(triphenylphosphine)iron, Fe-01960
- [(1,6,7,8- η)-Bicyclo[4.2.0]octa-1,3,5,7-tetraene]tricarbonyliron, Fe-00662
- [(2,3,4,5- η)-Bicyclo[4.2.0]octa-2,4,7-triene]tricarbonyliron, Fe-00673
- 1,1''-Biferrocene, Fe-01666
- 1,1'':1',1'''-Biferrocene, Fe-01662

- Biferrocenyl, *see* Fe-01666
 1,1'-Biferrocenylene, *see* Fe-01662
 [(3*a*,3'*a*,4,4',5,5',6,6',6*a*,6'*a*-η)-[1,1'-Bipentalene]-3*a*,3'*a*,1*H*,1'*H*]-diyl]iron, Fe-01383
 [(1,2,3,4,5,6-η)-1,1'-Biphenyl](η⁵-2,4-cyclopentadien-1-yl)iron(1+), Fe-01490
 [(4-Biphenyl)cyclopentadienyl]cyclopentadienyliron, *see* Fe-01743
 4-Biphenylferrocene, Fe-01743
 (2,2'-Bipyridine-*N*)dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron(1+), Fe-01479
 (2,2'-Bipyridyl)dicarbonyl-π-cyclopentadienyliron(1+), *see* Fe-01479
 1,1'-Bis(acetoacetyl)ferrocene, *see* Fe-01569
 Bis[(1,2,3,4,5-η)-1-acetyl-2,4-cyclopentadien-1-yl]di-μ-carbonyldicarbonyldiiron, Fe-01546
 Bis(acetylcyclopentadienyl)tetracarbonyldiiron, *see* Fe-01546
 1,1'-Bis(2-acetylvinyl)ferrocene, *see* Fe-01566
 1,1'-Bis(aminocarbonyl)ferrocene, *in* Fe-00860
 Bis(amino-π-cyclopentadienyl)iron, *see* Fe-00616
 1,1'-Bis(1-aminoethyl)ferrocene, Fe-01268
 Bis(aminomethyl-π-cyclopentadienyl)iron, *see* Fe-00966
 1,1'-Bis(aminomethyl)ferrocene, Fe-00966
 1,1'-Bis(aminosulfonyl)ferrocene, Fe-00617
 Bis(μ-anilinato)hexacarbonyldiiron, Fe-01525
 Bis[μ₃-anilinato(2-)]nonacarbonyltriiron, Fe-01697
 Bis(azido-π-cyclopentadienyl)iron, *see* Fe-00520
 1,1'-Bisazidoferrocene, *see* Fe-00520
 Bis(azulene)iron, *see* Fe-01657
 Bis(π-B₁₀C₂H₁₂)ferrate(2-), *see* Fe-00062
 Bis(μ-benzenaminato)hexacarbonyldiiron, *see* Fe-01525
 Bis[μ₃-benzenaminato(2-)]nonacarbonyltriiron, *see* Fe-01697
 Bis(η⁶-benzene)iron(2+), Fe-00889
 Bis(μ-benzenemethaneselenolato)tetranitrosyldiiron, *see* Fe-01210
 Bis(μ-benzenemethanetellurolato)tetranitrosyldiiron, *see* Fe-01211
 Bis[μ-(benzenemethanethiolato)]hexacarbonyldiiron, *see* Fe-01653
 Bis(μ-benzenemethanethiolato)tetranitrosyldiiron, *see* Fe-01209
 Bis[μ-(benzeneselenolato)]dicarbonylbis(η⁵-cyclopentadien-1-yl)diiron, Fe-01834
 Bis(μ-benzeneselenolato)dicarbonyldi-π-cyclopentadienyldiiron, *see* Fe-01834
 Bis[μ-(benzeneselenolato)]hexacarbonyldiiron, Fe-01522
 Bis(μ-benzeneselenolato)tetranitrosyldiiron, Fe-00870
 Bis[μ-(benzenetellurolato)]dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)diiron, Fe-01835
 Bis(μ-benzenetellurolato)dicarbonyldi-π-cyclopentadienyldiiron, *see* Fe-01835
 Bis(μ-benzenetellurolato)hexacarbonyldiiron, Fe-01523
 Bis(μ-benzenetellurolato)tetranitrosyldiiron, Fe-00871
 Bis[μ-(benzenethiolato)]dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)diiron(1+), Fe-01831
 Bis[μ-(benzenethiolato)]dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)diiron(2+), Fe-01832
 Bis[μ-(benzenethiolato)]dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)diiron, Fe-01833
 Bis(μ-benzenethiolato)dicarbonyldi-π-cyclopentadienyldiiron, *see* Fe-01833
 Bis[μ-(benzenethiolato)]hexacarbonyldiiron, Fe-01521
 Bis(μ-benzenethiolato)tetranitrosyldiiron, Fe-00869
 Bis(μ-benzophenone hydrazonato)hexacarbonyldiiron, Fe-02058
 Bis[μ₃-(benzophenone hydrazonato(2-))]nonacarbonyltriiron, Fe-02100
 Bis(benzylcyclopentadienyldicarbonyliron), *see* Fe-01962
 Bis(benzyl-π-cyclopentadienyl)iron, *see* Fe-01844
 Bis[μ-(benzylidynoxy)]hexacarbonyldiiron, Fe-01647
 Bis(μ-benzylseleno)tetranitrosyldiiron, Fe-01210
 Bis(μ-benzyltelluro)tetranitrosyldiiron, Fe-01211
 Bis(benzylthiolato)hexacarbonyldiiron, Fe-01653
 Bis(μ-benzylthio)tetranitrosyldiiron, Fe-01209
 Bis(benzylthiotricarbonyliron), *see* Fe-01653
 Bis(2,2'-bipyridine)diethyliron, Fe-01851
 Bis[1,1'-[(1,2,3,4-η)-3,4-bis(1,1-dimethylethyl)-1,3-cyclobutadiene-1,2-diyl]bis(benzene)]tri-μ-carbonyldiiron, *see* Fe-02187
 Bis[bis(diphenylphosphino)ethane]carbonyliron, *see* Fe-02192
 Bis[1,2-bis(diphenylphosphino)ethane]chlorohydroiron, *see* Fe-02190
 Bis[1,2-bis(diphenylphosphino)ethane](η²-ethylene)iron, *see* Fe-02193
 Bis[μ-[bis(pentafluorophenyl)arsino]]hexacarbonyldiiron, Fe-01997
 Bis[μ-[bis(pentafluorophenyl)phosphino]]hexacarbonyldiiron, Fe-01998
 Bis-μ-[bis(trifluoromethyl)arsenido]hexacarbonyldiiron, *see* Fe-00470
 Bis-μ-[bis(trifluoromethyl)arsenido]tetranitrosyldiiron, *see* Fe-00027
 Bis[μ-[bis(trifluoromethyl)arsino]]hexacarbonyldiiron, Fe-00470
 Bis[μ-[bis(trifluoromethyl)arsino]]tetranitrosyldiiron, Fe-00027
 Bis[μ-[bis(trifluoromethyl)phosphine]]tetranitrosyldiiron, Fe-00037
 Bis[μ-[bis(trifluoromethyl)phosphino]]hexacarbonyldiiron, Fe-00475
 Bis(η⁶-boratabenzene)iron, Fe-00613
 Bis(bromo-π-cyclopentadienyl)iron, *see* Fe-00506
 Bis(bromomercurio)tetracarbonyliron, Fe-00028
 Bis(bromomercury)tetracarbonyliron, *see* Fe-00028
 Bis(η⁴-1,3-butadiene)carbonyliron, Fe-00452
 Bis(η⁴-1,3-butadiene)(phosphorous trifluoride)iron, Fe-00321
 Bis(η⁴-1,3-butadiene)(trimethyl phosphite-*P*)iron, Fe-00787
 Bis(η⁴-1,3-butadiene)(triphenylphosphine)iron, Fe-01938
 1,1':3,3'-Bis(1,4-butanediyl)ferrocene, *see* Fe-01576
 1,1'':1',1'''-Bis(2-butene-1,4-diyl)bisferrocene, *see* Fe-01973
 Bis(1-*tert*-butylborabenzene)iron, Fe-01589
 Bis(*tert*-butylcyclopentadienyl)iron, *see* Fe-01582
 Bis(1-*tert*-butyl-2,3-dihydro-3-methyl-2-phenyl-1*H*-1,2-azaborol-3-yl)tetracarbonyldiiron, *see* Fe-02072
 Bis(*tert*-butyl isonitrile)tricarbonyliron, *see* Fe-01113
 Bis(*tert*-butylphosphino)tetra(tricarbonyliron), *see* Fe-01673
 Bis(*tert*-butylphosphino)undecacarbonyltetrairon, *see* Fe-01627
 Bis-[(1,2,3,4,5-η)-6-*tert*-butyl-1,3,5-trimethyl-2,4-cyclohexadien-1-yl]iron, Fe-01945
 Bis[(2,3,4,5-η)-1-*tert*-butyl-1,3,4-trimethyl-1*H*-phospholium]iron(1+), Fe-01780
 1,1'':1',1'''-Bis(2-butyne-1,4-diyl)bisferrocene, *see* Fe-01970
 Bis[μ-(carbonothioyl)]dicarbonylbis(η⁵-2,4-cyclopentadien-1-yl)diiron, Fe-01162
 1,1'-Bis(4-carboxybutyl)ferrocene, *see* Fe-01686
 [1,2-Bis(carboxy)-π-cyclopentadienyl]-π-cyclopentadienyldiiron, *see* Fe-00861
 1,1'-Bis(2-carboxyethyl)ferrocene, *see* Fe-01428
 Bis(carboxymethyl-π-cyclopentadienyl)iron, *see* Fe-01208
 1,1'-Bis(carboxymethyl)ferrocene, *see* Fe-01208
 1,1'-Bis(3-carboxypropyl)ferrocene, *see* Fe-01577
 1,1'-Bis(chlorocarbonyl)ferrocene, *in* Fe-00860
 Bis(chloro-π-cyclopentadienyl)iron, *see* Fe-00509
 1,1'-Bis(7-chloroheptyl)ferrocene, Fe-01854
 1,1'-Bis(chloromercurio)ferrocene, Fe-00511
 1,2-Bis(chloromercurio)ferrocene, Fe-00512
 1,1'-Bis(chloromercurio)ferrocene, *see* Fe-00511
 1,2-Bis(chloromercurio)ferrocene, *see* Fe-00512
 [(1,2,3,4-η)-1,2-Bis(chloromethyl)-1,3-cyclobutadiene]tricarbonyliron, Fe-00349
 Bis(η⁵-chloromethylcyclopentadienyl)iron, *see* Fe-00888
 1,1'-Bis(chloromethyl)ferrocene, Fe-00888
 1,1'-Bis(5-chloropentyl)ferrocene, Fe-01688
 [1,3-Bis(4-chlorophenyl)-1-triazenato-*N*¹,*N*³]carbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, Fe-01527
 1,1'-Bis(chlorosulfonyl)ferrocene, *see* Fe-00513

- Bis(cyanato-*N*)ferrocene, *see* Fe-00825
- Bis(cyano-*C*)(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)ferrate(1-), Fe-01876
- 1,1'-Bis(2-cyanoethyl)ferrocene, Fe-01385
- 1,1'-Bis(2-cyanoethyl)ferrocene, Fe-01420
- Bis(cyclobutadienetetracarbyliron)disulfide, *see* Fe-01142
- [μ -[Bis(η^4 -1,3-cyclobutadien-1-yl)]disulfide]]hexacarbonyldiiron, Fe-01142
- [μ -[Bis(η^4 -1,3-cyclobutadien-1-yl)]hexacarbonyldiiron, *see* Fe-01139
- Bis[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iron, Fe-01243
- Bis(cyclohexadienyldicarbonyliron), *see* Fe-01408
- Bis(cyclohexyl- π -cyclopentadienyl)iron, *see* Fe-01775
- Bis[(1,2,5,6- η)-1,5-cyclooctadiene]iron, Fe-01452
- Bis(1,3,5,7-cyclooctatetraene)iron, *see* Fe-01418
- Bis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -[(3,4- η :3,4- η)-3,4-diethyl-2,5-dihydro-2,5-dimethyl-1,2,5-thiadiborole- $B^2, B^5, S^1: B^2, B^5, S^1$]]triiron, Fe-01944
- Bis- μ -[(η^5 -2,4-cyclopentadien-1-yl)bis[μ -[(3,4- η :3,4- η)-3,4-diethyl-2,5-dihydro-2,5-dimethyl-1,2,5-thiadiborole- $B^2, B^5, S^1: B^2, B^5, S^1$]]diiron]]zinc, Fe-01943
- Bis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(nitrosyl-*N:N*)]diiron, Fe-00594
- Bis[cyclopentadienylcarbonyliron(dimethylarsine)], *see* Fe-01443
- Bis[cyclopentadienylcarbonyliron(dimethylphosphine)], *see* Fe-01451
- Bis[cyclopentadienylcarbonyliron(diphenylphosphine)], *see* Fe-02114
- Bis[cyclopentadienylcarbonylthiocarbonyliron], *see* Fe-01162
- Bis(cyclopentadienyldicarbonyliron), *see* Fe-01164
- Bis[(cyclopentadienyl)dicarbonyliron]dimethyllead, Fe-01424
- Bis(cyclopentadienyldicarbonyliron)zinc, *see* Fe-01165
- Bis(η^5 -2,4-cyclopentadien-1-yl)diferrocenyttitanium, Fe-02013
- Bis(η^5 -2,4-cyclopentadien-1-yl)[μ -[(1,2,3,3a,7b- η :4a,5,6,7,7a- η)-4,4a-dihydro-4-phenyl-1*H*-dicyclopenta[*b,d*]phosphole-1,4a-diyl]]diiron *P*-oxide, Fe-01922
- Bis(cyclopentadienyldiphenylarsine)iron, *see* Fe-02091
- Bis(η^5 -cyclopentadienyl)- μ -ethylidenediiron tricarbonyl, *see* Fe-01336
- 1,1'-Bis(2,4-cyclopentadien-1-ylidenemethyl)ferrocene, Fe-01744
- Bis(η^5 -2,4-cyclopentadien-1-yl)[μ -[(1,2,3,3a,8b- η :5a,6,7,8,8a- η)-*as*-indacene]]diiron, Fe-01753
- Bis(cyclopentadienyl)iron, *see* Fe-00563
- Bis(cyclopentadienyl)iron(1+), *see* Fe-00564
- Bis(η^5 -cyclopentadienyl)- μ -(methoxymethylene)-diiron tricarbonyl, *see* Fe-01337
- Bis(η^5 -cyclopentadienyl)- μ -methylene-diiron tricarbonyl, *see* Fe-01183
- Bis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylenedinitrosyldiiron, Fe-00763
- Bis(η^5 -2,4-cyclopentadien-1-yl)[μ -(η^5 : η^6 -1-phenyl-2,4-cyclopentadien-1-yl)]diiron(1+), Fe-01721
- Bis(η^5 -cyclopentadienyl)- μ -propylidenediiron tricarbonyl, *see* Fe-01423
- Bis(cyclopentadienyl)tetracarbyldiiron, *see* Fe-01164
- Bis(η^5 -2,4-cyclopentadien-1-yl)tetrakis(triphenylphosphite-*P*)diiron, Fe-02205
- Bis(η^5 -cyclopentadienyl)- μ -(vinylidene)-diiron tricarbonyl, *see* Fe-01315
- Bis[decahydro-7-phenyl- π -7,8-dicarbaundecaborato(2-)]ferrate(1-), *see* Fe-01463
- Bis[(7,8,9,10,11- η)-1,2,3,4,5,6,8,9,10,11-decahydro-7-phenyl-7,8-dicarbaundecaborato(2-)]ferrate(1-), Fe-01463
- Bis- π -(3)-1,2-Dicarballyliron(1-), *see* Fe-00060
- Bis- π -(3)-1,2-dicarballyliron(2-), *see* Fe-00061
- Bis(dicarbonylcyclopentadienyliron), *see* Fe-01164
- Bis[dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron]magnesium, Fe-01161
- Bis[dicarbonyl- π -cyclopentadienyliron]mercury, *see* Fe-01160
- Bis[dicarbonyl(η^5 -iodocyclopentadienyl)iron], *see* Fe-01145
- Bis(1,2-dichlorocyclopentadienyl)iron, *see* Fe-00490
- Bis[μ -[(1,2,3,3a,10c- η :7a,8,9,10,10a- η)-dicyclopenta[*a,h*]-naphthalene]]diiron, Fe-02051
- Bis[μ -[(6a,7,8,9,9a- η :9d,10,11,12,12a- η)-dicyclopenta[*c,g*]-phenanthrene]]diiron, Fe-02149
- Bis(η^5 -1,2-diethylcyclopentadienyl)iron, *see* Fe-01586
- Bis[(3,4- η)-4,5-diethyl-1,2,2,3-tetramethyl-1-aza-2-sila-5-boracyclopent-3-ene- B^5, N^1]iron, Fe-01696
- Bis(η^4 -4,5-diethyl-1,2,2,3-tetramethyl-1,2,5-azasilaboroline)iron, *see* Fe-01696
- Bis(π_2 -dihydro-*as*-indacenylene)diiron, Fe-01813
- Bis[(1,2,3,4,5,6- η)-1,1-dihydro-1-methyl-2,4,6-triphenyl-1-phosphorinyl]iron, Fe-02182
- Bis(4-dihydro- π -pentalenyl)iron, *see* Fe-01397
- Bis[(1,2,3,4,5,6- η)-1,1-dihydro-1,2,4,6-tetraphenyl-1-phosphorinyl]iron, Fe-02197
- Bis(*N,N*-dimethylamino- π -cyclopentadienyl)iron, *see* Fe-01269
- 1,1'-Bis(*N,N*-dimethylamino)ferrocene, Fe-01269
- Bis(*N,N*-dimethylaminomethyl- π -cyclopentadienyl)iron, *see* Fe-01454
- [Bis(dimethylamino)methylene]tetracarbyliron, Fe-00451
- 1,1'-Bis[(dimethylamino)methyl]ferrocene, Fe-01454
- 1,2-Bis[(dimethylamino)methyl]ferrocene, Fe-01455
- 1,1'-Bis(dimethylarsino)ferrocene, Fe-01266
- Bis[μ -(dimethylarsino)]tetranitrosyldiiron, Fe-00057
- Bis[(1,2,3,4,5- η)-2,5-dimethyl-1*H*-arsol-1-yl]iron, Fe-00964
- Bis(dimethylcarbomodithioato-*S,S'*)nitrosyliron, Fe-00140
- Bis(2,3-dimethyl-2,3-dicarbahexaboranyl)iron dihydride, *see* Fe-00327
- Bis(dimethyldithiocarbamato)nitrosyliron, *see* Fe-00140
- Bis[(1,2,3,4,5,6- η)-1-(1,1-dimethylethyl)boratabenzene]iron, *see* Fe-01589
- [1,1'-[(1,2,3,4- η)-3,4-bis(1,1-dimethylethyl)-1,3-cyclobutadiene-1,2-diyl]bis[benzene]]tricarbonyliron, *see* Fe-01955
- [(1,2,3,4- η)-1,2-Bis(1,1-dimethylethyl)-1,3-cyclobutadiene]tricarbonyliron, *see* Fe-01355
- 1,1'-Bis(1,1-dimethylethyl)ferrocene, *see* Fe-01582
- 1,3-Bis(1,1-dimethylethyl)ferrocene, *see* Fe-01583
- [(5,6- η)-3,8-Bis(1,1-dimethylethyl)-2,2,9,9-tetramethyl-3,4,5,6,7-decapentaene]tetracarbyliron, *see* Fe-01942
- Bis[(1,2,3,4,5- η)-6-(1,1-dimethylethyl)-1,3,5-trimethyl-2,4-cyclohexadien-1-yl]iron, *see* Fe-01945
- Bis[(2,3,4,5- η)-1-(1,1-dimethylethyl)-1,3,4-trimethyl-1*H*-phospholium]iron(1+), *see* Fe-01780
- Bis(1,3-dimethyl-2-imidazolidinylidene)dinitrosyliron, Fe-00647
- Bis[(1,2,3,3a,7a- η)-1,3-Dimethyl-1*H*-inden-1-yl]iron(1+), Fe-01768
- Bis[(1,2,3,4,5- η)-2,3-dimethyl-2,4-pentadienyl]iron, Fe-01276
- Bis[(1,2,3,4,5- η)-2,4-dimethyl-2,4-pentadienyl]iron, Fe-01277
- 1,1'-Bis(dimethylphosphino)ferrocene, Fe-01272
- Bis[μ -(dimethylphosphino)]tetranitrosyldiiron, Fe-00059
- Bis[1-[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-2-yl]-ethanonato]iron, Fe-01436
- Bis[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-1-yl]iron, Fe-00968
- Bis(2,5-dimethylstibacyclopentadienyl)iron, *see* Fe-00969
- Bis[(1,2,3,4,5- η)-2,5-dimethyl-1*H*-stibol-1-yl]iron, Fe-00969
- Bis(dinitrosylthioferrate)(2-), *see* Fe-02220
- 1,1'-Bis(1,3-dioxobutyl)ferrocene, Fe-01569
- [1,2-Bis(diphenylarsino)ethane]tricarbonyliron, *see* Fe-01987
- 1,1'-Bis(diphenylarsino)ferrocene, Fe-02091
- Bis(diphenylarsino)tetranitrosyldiiron, Fe-01820
- [1,2-Bis(diphenylphosphine)ethane]bromo(η^5 -cyclopentadienyl)iron, *see* Fe-02040
- [1,2-Bis(diphenylphosphino)ethane]bromo(η^5 -cyclopentadienyl)iron, *see* Fe-02041
- [1,2-Bis(diphenylphosphino)ethane]carbonyl(η^5 -cyclopentadienyl)iron(1+), *see* Fe-02069
- [1,2-Bis(diphenylphosphino)ethane]chloro(η^5 -cyclopentadienyl)iron, *see* Fe-02042
- [1,2-Bis(diphenylphosphino)ethane]chloro(η^5 -cyclopentadienyl)iron(1+), *see* Fe-02043

- [1,2-Bis(diphenylphosphino)ethane](η^5 -cyclopentadienyl)ethenylideneiron(1+), *see* Fe-02083
- [1,2-Bis(diphenylphosphino)ethane](η^5 -cyclopentadienyl)hydroiron, *see* Fe-02044
- [1,2-Bis(diphenylphosphino)ethane]- π -cyclopentadienyl(methoxymethyl)iron, *see* Fe-02085
- [1,2-Bis(diphenylphosphino)ethane](η^5 -cyclopentadienyl)methyleneiron(1+), *see* Fe-02070
- [1,2-Bis(diphenylphosphino)ethane](η^5 -cyclopentadienyl)methyliron, *see* Fe-02071
- [Bis(diphenylphosphino)ethane](η^5 -cyclopentadienyl)(2-methylpropenylidene)iron(1+), *see* Fe-02104
- [1,2-Bis(diphenylphosphino)ethane](dinitrogen)hydroiron, *see* Fe-02191
- [Bis(diphenylphosphino)ethane]dinitrosyliron, *see* Fe-01933
- [1,2-Bis(diphenylphosphino)ethane]tricarbonyliron, *see* Fe-01989
- 1,1'-Bis(diphenylphosphino)ferrocene, Fe-02093
- [1,1'-Bis(diphenylphosphino)ferrocene-*P,P'*]dichloropalladium, Fe-02092
- 1,1'-Bis(diphenylphosphino)-2-(1-hydroxyethyl)ferrocene, Fe-02118
- [1,2-Bis(diphenylphosphino)methane]carbonyliron(1+), *see* Fe-02035
- Bis[μ -(diphenylphosphino)]tetranitrosyldiiron, Fe-01829
- 1,1'-Bis(diphenylphosphinothioyl)ferrocene, *in* Fe-02093
- 1',2-Bis(diphenylphosphino)- α,N,N -trimethylferrocenemethylamine, *see* Fe-02141
- 1,1'-Bis(diphenylphosphinyl)ferrocene, *in* Fe-02093
- Bis[(1,2,3,4,5- η)-2,5-diphenyl-1*H*-phosphol-1-yl]iron, Fe-02063
- Bis(diphenylplumbanediyl)bis[tetracarbonyliron], *see* Fe-02054
- Bis[(7,8,9,10,11,12- η)-dodecahydro-7,9-dicarbododecaborato(2-)]ferrate(2-), Fe-00062
- Bis[1,2-ethanediy]bis[diphenylphosphine]-*P,P'*](η^2 -ethene)iron, Fe-02193
- Bis(μ -ethaneselenolato)tetranitrosyldiiron, Fe-00055
- Bis(μ -ethanethiolato)tetranitrosyldiiron, Fe-00054
- Bis(ethylcyclopentadienyl)iron, *see* Fe-01245
- Bis(*N*-ethylethanaminato)diferrocenyltitanium, *see* Fe-01976
- 1,1'':1',1'''-Bis(1,2-ethynediyl)bisferrocene, *see* Fe-01814
- Bis(1,1'-Ferrocenediyl)silane, *see* Fe-01663
- Bis(ferrocenyl)diselenide, *see* Fe-01672
- 1,3-Bis(1,1'-ferrocenylene)tetramethyldisiloxane, *see* Fe-01271
- Bis(ferrocenylmethyl) ether, *see* Fe-01772
- Bis(formyl- π -cyclopentadienyl)iron, *see* Fe-00850
- 1,1'-Bis(2-formylvinyl)ferrocene, *see* Fe-01403
- Bis(fulvalene)diiron, *see* Fe-01662
- 1,1'-Bis(6-fulvenyl)ferrocene, *see* Fe-01744
- Bis[(1,2,3,4,5,6- η)-hexamethylbenzene]iron, Fe-01855
- Bis[(1,2,3,4,5,6- η)-hexamethylbenzene]iron(1+), Fe-01856
- Bis[(1,2,3,4,5,6- η)-hexamethylbenzene]iron(2+), Fe-01857
- Bis[1*H*-(3*a*,3*a'*,4,4',5,5',6,6',6*a*,6*a'*- η)hydropentalenyl]iron, Fe-01397
- Bis(μ -hydrothioxo)tetranitrosyldiiron, Fe-02217
- Bis(hydroxy- π -cyclopentadienyl)iron, *see* Fe-00569
- 1,1'-Bis(1-hydroxyethyl)ferrocene, Fe-01254
- Bis(hydroxymethyl- π -cyclopentadienyl)iron, *see* Fe-00945
- Bis(1-hydroxy-3-methyl- π -cyclopentadienyl)iron, *see* Fe-00947
- 1,1'-Bis(hydroxymethyl)ferrocene, Fe-00945
- 1,2-Bis(hydroxymethyl)ferrocene, Fe-00946
- Bis[(1,2,3,3*a*,7*a*- η)-1*H*-inden-1-yl]iron, Fe-01532
- Bis(iodo- π -cyclopentadienyl)iron, *see* Fe-00516
- Bis(isocyanobenzene)dinitrosyliron, Fe-01148
- Bis(isocyanomethane)dinitrosyliron, Fe-00051
- Bis[1-isopropenyl-2,3,4,5-tetramethylcyclopentadienyldicarbonyliron], *see* Fe-01975
- Bis(isopropylcyclopentadienyl)iron, *see* Fe-01445
- 1,2,1',2'-Bis(α -ketotetramethylene)ferrocene, *see* Fe-01567
- Bis(mercaptocyclopentadienyl)iron, *see* Fe-00591
- Bis(mesitylene)iron(2+), *see* Fe-01580
- Bis(μ -methanethiolato)tetranitrosyldiiron, Fe-00009
- [(1,2,3,4- η)-6,7-Bis(methoxycarbonyl)-1,3,5,7-cyclooctatetraene]tricarbonyliron, *see* Fe-01314
- Bis(methylazo- π -cyclopentadienyl)iron, *see* Fe-00939
- 1,1'-Bis(methylazo)ferrocene, Fe-00939
- Bis[(1,2,3,4,5,6- η)-methylbenzene]iron(2+), Fe-01214
- Bis[(1,2,3,4,5,6- η)-1-methylboratabenzene]iron, Fe-00965
- Bis(1-methylborinato)iron, *see* Fe-00965
- Bis[methylcyclopentadienyldicarbonyliron], *see* Fe-01409
- Bis(methylcyclopentadienyl)iron, *see* Fe-00935
- Bis[(3*a*,4,5,6,6*a*- η)-5-methyl-3*aH*-cyclopenta[*b*]thien-3*a*-yl]iron, Fe-01407
- 1,1'-Bis(methyldiphenylphosphonio)ferrocene diiodide, *in* Fe-02093
- [η^4 -1,2-Bis(methylene)cyclobutane]tricarbonyliron, Fe-00389
- [η^4 -5,6-Bis(methylene)-1,3-cyclohexadiene]tricarbonyliron, Fe-00674
- 1,1''-[1,2-Bis(methylene)-1,2-ethanediy]bisferrocene, *see* Fe-01847
- 1,1'-Bis(1-methylethenyl)ferrocene, Fe-01425
- 1,1'-Bis(1-methylethyl)ferrocene, *see* Fe-01445
- Bis[μ -(methylidyneoxy)]hexacarbonyldiiron, Fe-00498
- Bis[1-methylindenylidicarbonyliron], *see* Fe-01818
- Bis(methyl isocyanide)dinitrosyliron, *see* Fe-00051
- Bis(μ -methyloxycarbenetricarbonyliron), *see* Fe-00498
- Bis[(1,2,3,4,5- η)-3-methyl-2,4-pentadienyl]iron, Fe-00970
- Bis[(1-methyl-3-phenylcyclopentadienyl)dicarbonyliron], *see* Fe-01963
- Bis[μ_3 -(2-methyl-2-propanaminato(2-))]tetranitrosyldi- μ_3 -thioxotetrairon, Fe-00326
- Bis(methylthio- π -cyclopentadienyl)iron, *see* Fe-00948
- 1,1'-Bis(methylthio)ferrocene, Fe-00948
- [Bis(methylthio)methylene]dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00607
- Bis(μ -methylthio)tetranitrosyldiiron, *see* Fe-00009
- Bis[1-methyl-2,3,4-triphenylcyclopentadienyldicarbonyliron], *see* Fe-02189
- Bis(1-methyl-2,4,6-triphenyl- λ^5 -phosphorinyl)iron, *see* Fe-02182
- Bis[(7,8,9,10,11- η)-1,2,3,4,5,6,9,10,11-nonahydro-7,8-dimethyl-7,8-dicarbaundecaborato(2-)]ferrate(1-), Fe-00328
- 1,1'-Bis(3-oxo-1-butenyl)ferrocene, Fe-01566
- 1,1'-Bis(3-oxo-1-propenyl)ferrocene, Fe-01403
- Bis(η^5 -pentachlorocyclopentadienyl)iron, *see* Fe-00471
- Bis(η^5 -2,4-pentadienyl)iron, Fe-00629
- Bis(1,2,3,4,5-pentaethyl- π -cyclopentadienyl)iron, *see* Fe-02023
- Bis(pentafluoroethyl)iron tetracarbonyl, *see* Fe-00243
- Bis(pentafluorophenyl- π -cyclopentadienyl)iron, *see* Fe-01732
- 1,1'-Bis(pentafluorophenyl)ferrocene, Fe-01732
- Bis[(2,3,4,6- η)-pentahydro-4,5-dimethyl-4,5-dicarbahexaborato(1-)-*H*⁺]iron, Fe-00327
- Bis[(3*a*,3'*a*,4,4',5,5',6,6',6*a*,6'*a*- η)-pentalenyl]ferrate(2-), Fe-01384
- Bis(pentalenyl)iron, *see* Fe-01383
- Bis[penta(methoxycarbonyl)cyclopentadienide]iron, *in* Fe-01644
- Bis[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl][μ -[(1,2,3,4,5- η :1',2',3',4',5'- η)-[bi-2,4-cyclohexadien-1-yl]-6,6'-diyl]]diiron, Fe-02073
- Bis[pentamethylcyclopentadienyldicarbonyliron], *see* Fe-01853
- Bis(1,2,3,4,5-pentamethyl- π -cyclopentadienyl)iron, *see* Fe-01693
- Bis(pentamethylcyclopentadienyl)tetracarbonyldiiron, *see* Fe-01853
- Bis(phenylazo- π -cyclopentadienyl)iron, *see* Fe-01750
- 1,1'-Bis(phenylazo)ferrocene, Fe-01750
- Bis[(1,2,3,4,5,6- η)-1-phenylboratabenzene]iron, Fe-01761
- Bis(1-phenylborinato)iron, *see* Fe-01761
- 1,1'-Bis(2-phenylethenyl)ferrocene, Fe-01923
- Bis[(phenylethynyl)- π -cyclopentadienyl]iron, *see* Fe-01916
- 1,1'-Bis(phenylethynyl)ferrocene, Fe-01916
- Bis[(η^6 -phenyl)ferrocene]chromium, Fe-02066
- Bis[(η^6 -phenyl)ferrocene]chromium(1+), Fe-02067
- 1,1'-Bis(phenylmethyl)ferrocene, *see* Fe-01844

- 1,3-Bis(phenylmethyl)ferrocene, *see* Fe-01845
 Bis(phenylnitreno)enneacarbonyltriiron, *see* Fe-01697
 Bis(μ -phenyloxycarbenetricarbonyliron), *see* Fe-01647
 Bis(μ_3 -phenylphosphido)tris(tricarbonyliron), *see* Fe-01698
 Bis(phenylphosphino)tetra(tricarbonyliron), *see* Fe-01811
 Bis(η^5 -1*H*-phosphol-1-yl)iron, Fe-00313
 1,1':2,2'-Bis(1,3-propanediyl)ferrocene, *see* Fe-01426
 1,1':3,3'-Bis(1,3-propanediyl)ferrocene, *see* Fe-01427
 Bis(2-propenyl- π -cyclopentadienyl)iron, *see* Fe-01425
 Bis(μ_4 -propyne)-undecacarbonyl-*quadro*-tetrairon, *see* Fe-01470
 Bis(2-pyridyl- π -cyclopentadienyl)iron, *see* Fe-01658
 1,1'-Bis(2-pyridyl)ferrocene, *see* Fe-01658
 1,1'-Bis(3-pyridyl)ferrocene, *see* Fe-01659
 Bis(η^5 -tetrachlorocyclopentadienyl)iron, *see* Fe-00479
 Bis(4,5,6,7-tetrahydro-4-oxo- π -indenyl)iron, Fe-01567
 Bis[(1,2,3,3*a*,6*a*- η)-3*a*,4,5,6-tetrahydro-6-oxo-3*a*-pentalenyl]iron, Fe-01404
 Bis[(2,3,4,5- η)-1,1,3,4-tetramethyl-1*H*-phospholium]iron(1+), Fe-01462
 Bis[(2,3,4,5- η)-tetramethylthiophene-*S*]iron(2+), Fe-01456
 Bis(tetraphenyl- π -cyclopentadienyl)iron, *see* Fe-02196
 Bis(1,2,4,6-tetraphenyl- λ^5 -phosphorinyl)iron, *see* Fe-02197
 1,1'-Bis[(2-thienyl)carbonyl]ferrocene, Fe-01652
 Bis(toluene)iron(2+), *see* Fe-01214
 Bis[tricarbonyl(cyclobutadien-1-yl)]iron, *see* Fe-01139
 Bis(tricarbonyliron bromide), *see* Fe-00091
 Bis(tricarbonyliron iodide), *see* Fe-00097
 Bis(1,2,3-trichlorocyclopentadienyl)iron, *see* Fe-00480
 [(2,3,5,6- η)-2,3-Bis(trifluoromethyl)bicyclo[2.2.1]hepta-2,5-diene]tricarbonyliron, Fe-00814
 [Bis(trifluoromethyl)phosphino]dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00347
 Bis(trifluorophosphine)tolueneiron, *see* Fe-00219
 Bis[(1,2,3,4,5,6- η)-1,3,5-trimethylbenzene]iron(2+), Fe-01580
 Bis[(3*a*,4,5,6,6*a*- η)-1,2,3-trimethylcyclopenta[*b*]pyrrol-3*a*(1*H*)-yl]iron, Fe-01684
 1,1':2,2'-Bis(trimethylene)ferrocene, *see* Fe-01426
 1,1':3,3'-Bis(trimethylene)ferrocene, *see* Fe-01427
 Bis[(1,2,3,4,5- η)-1,3,5-trimethyl-6-phenyl-2,4-cyclohexadien-1-yl]iron, Fe-02016
 Bis(1,2,3-trimethylpyrrolo[*b*])ferrocene, *see* Fe-01684
 Bis[trimethylsilylcyclopentadienyldicarbonyliron], *see* Fe-01687
 1,1'-Bis(trimethylsilyl)ferrocene, Fe-01458
 1,1'-Bis(trimethylstannyl)ferrocene, Fe-01460
 Bis(1,2,3-triphenyl- π -cyclopentadienyl)iron, *see* Fe-02172
 Bis(1,2,4-triphenyl- π -cyclopentadienyl)iron, *see* Fe-02173
 1,1'-Bis(triphenylgermyl)ferrocene, Fe-02175
 1,1'-Bis(triphenylmethyl)ferrocene, Fe-02181
 1,1'-[Bis(triphenylphosphine)aurio]ferrocene, Fe-02174
 [Bis(triphenylphosphine)digold](η^5 -2,4-cyclopentadien-1-yl)[μ_3 -[(1- η :1- η :1,2,3,4,5- η)-2,4-cyclopentadien-1-ylidene]]iron(1+), Fe-02177
 ► Bis(triphenylphosphine)tricarbonyliron, *see* Fe-02145
 1,1'-Bis(triphenylsilyl)ferrocene, Fe-02176
 1,1'-Bis[tris(diethylamino)titanium]ferrocene, *see* Fe-02098
 Bis(trityl- π -cyclopentadienyl)iron, *see* Fe-02181
 Bis[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]ferrate(1-), Fe-00060
 Bis[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]ferrate(2-), Fe-00061
 Bis[undecahydro-7,8-dimethyl- π -7,8-dicarbaundecaborato(2-)]ferrate(1-), *see* Fe-00328
 Bis(vinyl- π -cyclopentadienyl)iron, *see* Fe-01195
 1,1'',1''''-(2,4,6-Borazinetriyl)trisferrocene, *see* Fe-02015
 (Borinic acid)diferrocene, *see* Fe-01674
 2-Borono[(dimethylamino)methyl]ferrocene, *see* Fe-01111
 Boronoferrrocene, *see* Fe-00596
 [(μ_4 -(Boryl-*B*:*B*:*H*:*H*'))dodecacarbonyl- μ -hydrotetrairon, Fe-00806
 1,1'',1''''-Borylidynetrisferrocene, *see* Fe-02009
 BPPFA, *see* Fe-02141
 BPPFOH, *see* Fe-02118
 (2-Bromo- π -allyl)dicarbonylnitrosyliron, *see* Fe-00074
 Bromo- π -allyldicarbonyl(triphenylphosphine)iron, *see* Fe-01794
 Bromo- π -allyltricarbonyliron, *see* Fe-00117
 (η^6 -Bromobenzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00702
 Bromo(1-bromo- π -allyl)tricarbonyliron, *see* Fe-00110
 Bromo(2-bromo- π -allyl)tricarbonyliron, *see* Fe-00111
 Bromo(η^5 -1-bromo-2,4-cyclopentadien-1-yl)dicarbonyliron, Fe-00155
 Bromo(η^3 -1-bromo-2-propenyl)tricarbonyliron, Fe-00110
 Bromo(η^3 -2-bromo-2-propenyl)tricarbonyliron, Fe-00111
 (η^4 -1-Bromo-1,3-butadiene)tricarbonyliron, Fe-00174
 (η^4 -2-Bromo-1,3-butadiene)tricarbonyliron, Fe-00175
 Bromo[(1,2,3- η)-2-butenyl]tricarbonyliron, Fe-00208
 Bromocarbonyl- π -cyclopentadienyl(phosphorous acid)iron triphenyl ester, *see* Fe-01823
 Bromocarbonyl- π -cyclopentadienyl(phosphorous acid)iron trimethyl ester, *see* Fe-00456
 Bromocarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trimethylphosphine)iron, Fe-00455
 Bromocarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trimethyl phosphite-*P*)iron, Fe-00456
 Bromocarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01822
 Bromocarbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenyl phosphite-*P*)iron, Fe-01823
 Bromocarbonyl(methyl- π -cyclopentadienyl)(phosphorous acid)iron triphenyl ester, *see* Fe-01894
 Bromocarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](triphenyl phosphite-*P*)iron, Fe-01894
 (η^4 -1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149
 [(1,2,3,4,5- η)-1-Bromo-2,4-cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00728
 Bromo(η^5 -2,4-cyclopentadien-1-yl)bis(isocyanobenzene)iron, Fe-01607
 Bromo(η^5 -2,4-cyclopentadien-1-yl)bis(isocyanomethane)iron, Fe-00443
 Bromo- π -cyclopentadienyldis(methyl isocyanide)iron, *see* Fe-00443
 Bromo- π -cyclopentadienyldis(phenyl isocyanide)iron, *see* Fe-01607
 Bromocyclopentadienyldicarbonyliron, *see* Fe-00173
 Bromo(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediy]bis(diphenylphosphine)-*P,P'*]iron, Fe-02040
 Bromo(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediy]bis(diphenylphosphine)-*P,P'*]iron(1+), Fe-02041
 Bromo- π -cyclopentadienyldiethylenebis(diphenylphosphine)]iron, *see* Fe-02040
 Bromodicarbonyl(benzyl- π -cyclopentadienyl)iron, *see* Fe-01168
 Bromodicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00173
 Bromo[dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron]magnesium, Fe-00172
 Bromodicarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, Fe-00953
 Bromodicarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentaphenyl-2,4-cyclopentadien-1-yl]iron, Fe-02123
 Bromodicarbonyl[(1,2,3,4,5- η)-1-(phenylmethyl)-2,4-cyclopentadien-1-yl]iron, *see* Fe-01168
 Bromodicarbonyl(η^3 -2-propenyl)(triphenylphosphine)iron, Fe-01794
 Bromodicarbonyl[(1,2,3,4,5- η)-1,2,3,4-tetraphenyl-2,4-cyclopentadien-1-yl]iron, Fe-02029
 1-Bromo-2-[(dimethylamino)methyl]ferrocene, Fe-01091
 Bromodinitrosyliron, *in* Fe-00002
 Bromodinitrosyl(triphenylphosphine)iron, Fe-01549
 Bromodinitrosyl(triphenylstibine)iron, Fe-01550
 (η^2 -Bromoethene)tetracarbonyliron, *see* Fe-00105
 (Bromoethylene)tetracarbonyliron, Fe-00105
 (1-Bromoethyl)ferrocene, Fe-00918
 Bromoferrocene, Fe-00544
 1-Bromo-1-ferrocenylethane, *see* Fe-00918
 Bromo(ferrocenyl)magnesium, Fe-00545
 Bromomagnesiumferrocene, *see* Fe-00545
 (Bromomagnesium)(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediy]bis(diphenylphosphine)-*P,P'*]iron, Fe-02039

- (Bromomagnesium)dicarbonyl(η^5 -cyclopentadienyl)iron, *see* Fe-00172
- (Bromomercurio)dicarbonyl- π -cyclopentadienyliron, *see* Fe-00171
- (Bromomercurio)tricarbonylnitrosyliron, Fe-00010
- (Bromomercury)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00171
- (Bromomethyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01893
- (η^1 -Bromomethyl)(η^5 -cyclopentadienyl)-carbonyl(triphenylphosphine)iron, *see* Fe-01893
- σ -Bromomethyl- π -cyclopentadienyliron(triphenylphosphine) carbonyl, *see* Fe-01893
- (4-Bromophenylcyclopentadienyl)(cyclopentadienyl)iron, *see* Fe-01392
- (4-Bromophenyl)ferrocene, Fe-01392
- (η^3 -2-Bromo-2-propenyl)dicarbonylnitrosyliron, Fe-00074
- Bromotetracarbonyl(ferroceniumylmethylidyne)tungsten, Fe-01294
- Bromotetracarbonyl(ferrocenylmethylidyne)chromium, Fe-01292
- Bromotetracarbonyl(ferrocenylmethylidyne)molybdenum, Fe-01293
- Bromotetracarbonyl(ferrocenylmethylidyne)tungsten, *see* Fe-01294
- Bromotricarbonyl[(1,2,3- η)-2-buten-1-yloic acid]iron, Fe-00176
- Bromotricarbonyl(1-carboxy- π -allyl)iron, *see* Fe-00176
- Bromotricarbonyl[(η^3 -3-carboxy-2-propenyl)]iron, *see* Fe-00176
- Bromotricarbonyl(π -crotyl)iron, *see* Fe-00208
- Bromotricarbonyl(2-methoxy- π -allyl)iron, *see* Fe-00210
- Bromotricarbonyl[(1,2,3- η)-2-methoxy-2-propenyl]iron, Fe-00210
- Bromotricarbonyl(1-methyl- π -allyl)iron, *see* Fe-00208
- Bromotricarbonyl(2-methyl- π -allyl)iron, *see* Fe-00209
- Bromotricarbonyl[(1,2,3- η)-2-methyl-2-propenyl]iron, Fe-00209
- Bromotricarbonyl(1-phenyl- π -allyl)iron, *see* Fe-00838
- Bromotricarbonyl(2-phenyl- π -allyl)iron, *see* Fe-00837
- Bromotricarbonyl[(1,2,3- η)-1-phenyl-2-propenyl]iron, Fe-00838
- Bromotricarbonyl[(1,2,3- η)-2-phenyl-2-propenyl]iron, Fe-00837
- Bromotricarbonyl(η^3 -2-propenyl)iron, Fe-00117
- Bromotrinitrosyliron, Fe-00001
- (η^4 -1,3-Butadiene)carbonylbis(phosphorous trifluoride)iron, Fe-00083
- (η^4 -1,3-Butadiene)carbonylbis(triphenylphosphine)iron, Fe-02159
- (η^4 -1,3-Butadiene)carbonyl[(1,2,3,4- η)-1,3,5,7-cyclooctatetraene]iron, Fe-01072
- (η^4 -1,3-Butadiene)carbonyl[*N,N'*-1,2-ethanediylidenebis(2-propanamine)-*N,N'*]iron, Fe-01121
- Butadiene(carbonyl)[glyoxalbis(isopropylimine)]iron, *see* Fe-01121
- (η^4 -1,3-Butadiene)dicarbonyl(cyano-*C*)ferrate(1-), Fe-00196
- (η^4 -1,3-Butadiene)dicarbonyl(isocyanomethane)iron, Fe-00317
- (1,3-Butadiene)dicarbonyl(methyl isocyanide)iron, *see* Fe-00317
- (η^4 -1,3-Butadiene)dicarbonyl(phosphorous trifluoride)iron, Fe-00128
- (η^4 -1,3-Butadiene)dicarbonyl(triphenylphosphine)iron, Fe-01842
- [1,1'-(η^4 -1,3-Butadiene-1,4-diyl)bis(benzene)]tricarbonyliron, *see* Fe-01601
- 1,1''-(1,3-Butadiene-1,4-diyl)bisferrocene, *see* Fe-01846
- [μ -[(1,2,3,4- η :1,4- η)-1,3-Butadiene-1,4-diyl]]- μ -carbonylpentacarbonyldiiron, *see* Fe-00481
- [μ -[(1,2,3,4- η :1,4- η)-1,3-Butadiene-1,4-diyl]]hexacarbonyldiiron, Fe-00481
- ▷ Butadieneiron tricarbonyl, *see* Fe-00201
- (η^4 -1,3-Butadiene)[(1,2,3,4,5,6- η)-methylbenzene]iron, Fe-00775
- [(1,2- η)-1,3-Butadiene]tetracarbonyliron, Fe-00270
- [1,1',1'',1'''-(η^4 -1,3-Butadiene-1,2,3,4-tetrayl)-tetrakis(benzene)]tricarbonyliron, *see* Fe-02030
- (η^4 -1,3-Butadiene)(η^6 -toluene)iron, *see* Fe-00775
- ▷ (η^4 -1,3-Butadiene)tricarbonyliron, Fe-00201
- (η^4 -1,3-Butadiene)tris(phosphorous trifluoride)iron, Fe-00048
- (η^4 -1,3-Butadiene)tris(trimethylphosphine)iron, Fe-01125
- (η^4 -1,3-Butadiene)tris(trimethyl phosphite-*P*)iron, Fe-01124
- (1,3-Butadien-1-ol)tricarbonyliron, Fe-00203
- (1,3-Butadien-2-ol)tricarbonyliron, Fe-00204
- [(η^4 -1,3-Butadien-1-yl)acetate]tricarbonyliron, *in* Fe-00203
- [(η^4 -1,3-Butadienyl)benzene]tricarbonyliron, Fe-01022
- (1,3-Butadienylenedicyclopentadienylene)-bis(cyclopentadienyl)iron, *see* Fe-01846
- μ -1,3-Butadienylenhexacarbonyldiiron, *see* Fe-00481
- 1,3-Butadienylferrocene, Fe-01193
- [(η^4 -1,3-Butadienyl)ferrocene]tricarbonyliron, Fe-01488
- [1-(1,3-Butadienyl)methyl ether]tricarbonyliron, *in* Fe-00203
- [(η^4 -1,3-Butadienyl)oxy]trimethylsilane]tricarbonyliron, *in* Fe-00203
- [[(η^4 -1,3-Butadienyl)sulfinyl]benzene]tricarbonyliron, *see* Fe-01029
- 1,1''-(1,3-butadiyne-1,4-diyl)bisferrocene, *see* Fe-01817
- 1,1''-(1,4-Butanediyl)bisferrocene, *see* Fe-01852
- 1,1'-(1,4-Butanediyl)ferrocene, *see* Fe-01218
- 1,1'-(1,4-Butanediyl)-3,3'-(1-oxo-1,4-butanediyl)ferrocene, *see* Fe-01573
- 1,1'-(1,4-Butanediyl)-3,3'-(2-oxo-1,4-butanediyl)ferrocene, *see* Fe-01574
- μ -1,4-Butanediyltetracarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01570
- [μ -[1,1',1'',1'''-(1,2,3- η :2,3,4- η)-1,2,3-Butatriene-1,4-diylidene]tetrakis(benzene)]hexacarbonyldiiron, *see* Fe-02088
- [1,1',1'',1'''-(2,3- η)-1,2,3-Butatriene-1,4-diylidene]-tetrakis(benzene)]tetracarbonyliron, *see* Fe-02049
- (Butatriene)hexacarbonyldiiron, *see* Fe-00482
- [(*O*,1,2,3- η)-2-Butenal]tris(phosphorous trifluoride)iron, Fe-00046
- [(2,3- η)-2-Butene-1,4-dioic acid]tetracarbonyliron, Fe-00254
- 1,1'-(2-Butene-1,4-diyl)ferrocene, *see* Fe-01197
- [(1,2,3- η)-2-Butene-1,4-diyl](iminocarbonyl)]tricarbonyliron, Fe-00288
- [(1,2,3- η)-2-Butene-1,4-diyl](methylimino)carbonyl]tricarbonyliron, Fe-00418
- [(1,2,3- η)-2-Butene-1,4-diyl]oxycarbonyl]tricarbonyliron, Fe-00275
- [(1,2,3- η)-2-Butene-1,4-diyl][(phenylimino)carbonyl]tricarbonyliron, Fe-01170
- [(*O*,2,3,4- η)-3-Buten-2-one]tricarbonyliron, Fe-00205
- [(*O*,2,3,4- η)-3-Buten-2-one]tris(phosphorous trifluoride)iron, Fe-00047
- [(1,2,3- η)-2-Butenyl]carbonylnitrosyl(triphenylphosphine)iron, Fe-01804
- [(1,2,3- η)-2-Butenyl]dicarbonylnitrosyliron, Fe-00132
- [(1,2,3- η)-2-Butenyl]dinitrosyl(triphenylphosphine)iron(1+), Fe-01769
- (η^4 -*N*-2-Butenylideneaniline)tricarbonyliron, Fe-01039
- (η^4 -*N*-2-Butenylidenebenzenamine)tricarbonyliron, *see* Fe-01039
- (*N*-2-Butenylidenebutylamine)tricarbonyliron, *see* Fe-00780
- (η^4 -*N*-2-Butenylidene-2-methyl-2-propanamine)tricarbonyliron, Fe-00780
- (η^3 -2-Buten-1-yloic acid)dicarbonylnitrosyliron, Fe-00122
- [(1,2,3- η)-2-Butenyl]tetracarbonyliron(1+), Fe-00293
- (1,2,3- η)-2-Butenyltricarbonylchloroiron, Fe-00211
- [(1,2,3- η)-2-Butenyl]tricarbonyliodoiron, Fe-00214
- η^1 -3-Butenyltricarbonyliron chloride, *see* Fe-00211
- [(1,2,3- η)-2-Butenyl]tris(trimethyl phosphite-*P*)iron(1+), Fe-01126
- tert*-Butyldicarbonyl- π -cyclopentadienyliron, Fe-00777
- (1-*tert*-Butyl-2,3-dihydro-2-methyl-1*H*-azaborol-3-yl)-dicarbonyl(trimethylsilyl)iron, *see* Fe-01122
- [(3,4,5- η)-1-*tert*-Butyl-2,3-dihydro-2-methyl-1*H*-1,2-azaborol-3-yl-*B*²,*N*¹]iodoiron, Fe-00637
- tert*-Butylferrocene, Fe-01244
- tert*-Butyl ferrocenyl nitroxide, Fe-01263
- (*tert*-Butyl isocyanide)iron tetracarbonyl, *see* Fe-00419

- (*tert*-Butyl isonitrile)tetracarbonyliron, *see* Fe-00419
 (1-*tert*-Butyl-3-methyl-2-phenyl-1*H*-1,2-azaborol-3-yl-*B*²,*N*¹)dicarbonyliodoiron, Fe-01430
 [(2,3- η)-Butyne]carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenyl phosphite-*P*)iron(1+), Fe-01971
 $[\mu$ -[(1,2,3- η :2,3,4- η)-2-Butyne-1,4-diyl]]hexacarbonyldiiron, Fe-00482
 (CalCIFerol)tricarbonyliron, Fe-02045
 (CalCIFerone)tricarbonyliron, *in* Fe-02045
 $[\mu$ -[Carbanilidato(2-)]]hexacarbonyldiiron, *see* Fe-01593
 (η^1 -9*H*-Carbazol-1-yl)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01598
 (Carbene)dicarbonyl- π -cyclopentadienyliron(1+), *see* Fe-00289
 (*N*-Carboethoxy-1,2-dihydropyridine)tricarbonyliron, *in* Fe-00373
 (Carbomethoxy)(η^5 -cyclopentadienyl)dicarbonyliron, *see* Fe-00397
 (*N*-Carbomethoxy-1,2-dihydropyridine)tricarbonyliron, *in* Fe-00373
 1-Carbomethoxy-2-methylferrocene, *in* Fe-00902
 4-Carbomethoxyphenylferrocene, *in* Fe-01484
 [(*C*,*S*- η)-Carbon disulfide]-dicarbonylbis(trimethylphosphine)iron, Fe-00464
 (Carbon disulfide)dicarbonylbis(triphenylphosphine)iron, Fe-02144
 (Carbon disulfide)tetracarbonyliron, Fe-00068
 (μ_4 -Carbon)dodecacarbonyl- μ -hydrotetraferrate(1-), *see* Fe-00992
 (Carbon)dodecacarbonyltetraferrate(2-), Fe-00987
 (Carbon)dodecacarbonyltris(dimethylphenylphosphine)pentairon, Fe-02130
 (Carbonothioyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-), Fe-00193
 (Carbonothioyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylarsine)iron(1+), Fe-01865
 (Carbonothioyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron(1+), Fe-01878
 (Carbonothioyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylstibine)iron(1+), Fe-01879
 $[\mu$ -(Carbonothioyl)]- μ -carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01163
 (Carbonothioyl)(η^5 -2,4-cyclopentadien-1-yl)-bis(isocyanobenzene)iron(1+), Fe-01656
 $[\mu$ -(Carbonothioyl)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -[(methylthio)methylidyne]]diiron(1+), Fe-01328
 (Carbonothioyl)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00264
 $[\mu_3$ -(Carbonothioyl)]octacarbonyldi- μ -thioxotriiron, Fe-00335
 (Carbonothioyl)tetracarbonyliron, Fe-00067
 $[\mu_4$ -(Carbonothioyl-*C*:*C*:*S*:*S*)]tridecacarbonyldi- μ_3 -thioxopentairon, Fe-01134
 (Carbon)pentadecacarbonylpentairon, Fe-01372
 (Carbon)tetradecacarbonylpentaferrate(2-), Fe-01284
 (Carbon)tetradecacarbonyl(triphenylphosphine)pentairon, Fe-02074
 $[\mu_6$ -(Carbon)]tri- μ -carbonyltridecacarbonylhexaferrate(2-), Fe-01468
 (Carbon)tridecacarbonylbis(triphenyl phosphite)pentairon, Fe-02185
 (Carbon)tridecacarbonyltetrairon, *see* Fe-01132
 Carbonylbis(cyano-*C*)(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-), Fe-00263
 Carbonylbis(cyano-*C*)nitrosylferrate(3-), Fe-00019
 Carbonylbis[(1,2,3,4- η)-1,3-cyclohexadiene]iron, Fe-01100
 Carbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(dithio-*S*:*S*,*S*')]diiron, Fe-00727
 Carbonylbis(η^5 -2,4-cyclopentadien-1-yl)-tris(isocyanomethane)diiron, Fe-01499
 Carbonylbis[1,2-ethanediylbis(diphenylphosphine)-*P*,*P'*]iron, Fe-02192
 1,1''-Carbonylbisferrocene, *see* Fe-01719
 Carbonyl(carboxylato)(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)ferrate(1-) hydrogen compd., *see* Fe-01889
 Carbonylcarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)ferrate(1-), Fe-01889
 Carbonyl(carboxymethyl)- η^5 -cyclopentadienyl(triphenylphosphine)iron menthyl ester, Fe-02119
 Carbonylchloro- π -cyclopentadienyl(phosphorous acid)iron triphenyl ester, *see* Fe-01825
 Carbonylchloro- π -cyclopentadienyl(phosphorous acid)iron trimethyl ester, *see* Fe-00458
 Carbonylchloro(η^5 -2,4-cyclopentadien-1-yl)-(trimethylphosphine)iron, Fe-00457
 Carbonylchloro(η^5 -2,4-cyclopentadien-1-yl)(trimethyl phosphite-*P*)iron, Fe-00458
 Carbonylchloro(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01824
 Carbonylchloro(η^5 -2,4-cyclopentadien-1-yl)(triphenyl phosphite-*P*)iron, Fe-01896
 Carbonylchloro(η^5 -2,4-cyclopentadien-1-yl)(triphenyl phosphite-*P*)iron, Fe-01825
 Carbonylchloro(4-methylbenzenediazonium)-bis(triphenylphosphine)iron, *see* Fe-02167
 Carbonylchloro(methyl- π -cyclopentadienyl)(phosphorous acid)iron trimethyl ester, *see* Fe-00640
 Carbonylchloro(methyl- π -cyclopentadienyl)(phosphorous acid)iron triphenyl ester, *see* Fe-01896
 Carbonylchloro[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](trimethyl phosphite)iron, Fe-00640
 Carbonyl(chloromethyl)(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01895
 Carbonylchloro(4-methylphenylazo)bis(triphenylphosphine)iron, Fe-02167
 Carbonylchloronitrosylbis(triphenylphosphine)iron, Fe-02127
 Carbonyl(cyanato-*N*)(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01873
 Carbonyl(cyano-*C*)(η^5 -2,4-cyclopentadien-1-yl)-(isocyanomethane)iron, Fe-00381
 Carbonylciano- π -cyclopentadienyl(methyl isocyanide)iron, *see* Fe-00381
 Carbonylciano- π -cyclopentadienyl(phosphorous acid)iron triphenyl ester, *see* Fe-01874
 Carbonyl(cyano-*C*)(η^5 -2,4-cyclopentadien-1-yl)-(trimethylphosphine)iron, Fe-00631
 Carbonyl(cyano-*C*)(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01869
 Carbonyl(cyano-*C*)(η^5 -2,4-cyclopentadien-1-yl)(triphenyl phosphite-*P*)iron, Fe-01874
 Carbonyl(cyanomethyl)(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01924
 Carbonyl(cyclobutadiene)[1,2-bis(diphenylphosphine)ethane]iron-, *see* Fe-02037
 Carbonyl(η^4 -1,3-cyclobutadiene)bis(trimethyl phosphite-*P*)iron, Fe-00788
 Carbonyl(η^4 -1,3-cyclobutadiene)[1,2-ethanediylbis(diphenylphosphine)-*P*,*P'*]iron, Fe-02037
 Carbonyl(η^4 -1,3-cyclobutadiene)-nitrosyl(triphenylphosphine)iron(1+), Fe-01792
 Carbonyl[1,1',1'',1'''-(η^4 -1,3-cyclobutadiene-1,2,3,4-tetrayl)tetrakis(benzene)]nitrosyl(triphenylphosphine)iron-(1+), *see* Fe-02178
 Carbonyl[(1,2,3,4- η)-1,3-cycloheptadiene]-bis(triphenylphosphine)iron, Fe-02168
 Carbonyl[(1,2,3,4- η)-1,3-cycloheptadiene][(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iron(1+), Fe-01352
 Carbonyl[(1,2,3,4- η)-1,3-cycloheptadiene][(1,2,3,4- η)-1,3-cyclohexadiene]iron, Fe-01250
 Carbonyl[(1,2,4,5- η)-1,4-cycloheptadiene][(1,2,3,4- η)-1,3-cyclohexadiene]iron, Fe-01251
 Carbonyl[(1,2,3,4- η)-1,3-cycloheptadiene][(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]iron(1+), Fe-01109
 Carbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl][(1,2,3,4- η)-1,3-cyclohexadiene]iron(1+), Fe-01240
 Carbonyl- π -cycloheptadienyliodo(phosphorous acid)iron trimethyl ester, *see* Fe-00786
 Carbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-iodo(trimethyl phosphite-*P*)iron, Fe-00786
 Carbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-iodo(triphenylphosphine)iron, Fe-01932
 Carbonyl[(1,2,3- η)-2,4,6-cycloheptatrien-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01045

- Carbonyl[(1,2,3,4- η)-1,3-cyclohexadiene]-bis(triphenylphosphine)iron, Fe-02165
- Carbonyl[(1,2,3,4- η)-1,3-cyclohexadiene][(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]iron(1+), Fe-01083
- Carbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]-iodo(triphenyl phosphite-*P*)iron, Fe-01899
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)bis(isocyanobenzene)iron(1+), Fe-01655
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)bis(isocyanomethane)iron(1+), Fe-00604
- Carbonyl- π -cyclopentadienylbis(methyl isonitrile)iron(1+), *see* Fe-00604
- Carbonyl- π -cyclopentadienylbis(phenyl isocyanide)iron(1+), *see* Fe-01655
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-bis(trimethylphosphine)iron(1+), Fe-00978
- Carbonyl- π -cyclopentadienylbis(triphenylphosphine)iron(1+), *see* Fe-02161
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-bis(triphenylphosphine)iron(1+), Fe-02161
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(dimethylcarbamodithioato-*S,S'*)iron, Fe-00445
- Carbonyl- π -cyclopentadienyl(dimethyldithiocarbamate)iron, *see* Fe-00445
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediylbis[diphenylphosphine]-*P,P'*]iron(1+), Fe-02069
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^2 -ethene)-(triphenylphosphine)iron(1+), Fe-01934
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-ethenylidene(triphenylphosphine)iron(1+), Fe-01925
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(1-ethoxyethylidene)-(triphenylphosphine)iron(1+), Fe-01972
- Carbonyl- π -cyclopentadienyl[ethylenebis(diphenylphosphine)]-iron(1+), *see* Fe-02069
- Carbonyl- π -cyclopentadienyl- π -ethylene(triphenylphosphine)iron(1+), *see* Fe-01934
- Carbonyl(η^5 -2,4-cyclopentadienyl)hydro(phosphorous acid)iron triphenyl ester, *see* Fe-01843
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-hydro(trimethylphosphine)iron, Fe-00461
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)hydro(trimethyl phosphite-*P*)iron, Fe-00462
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-hydro(triphenylphosphine)iron, Fe-01841
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)hydro(triphenyl phosphite-*P*)iron, Fe-01843
- Carbonyl- π -cyclopentadienylidobis(methyl isocyanide)iron, *see* Fe-00444
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)iodo(isocyanobenzene)iron, Fe-01014
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)iodo(isocyanomethane)iron, Fe-00295
- Carbonyl- π -cyclopentadienylidobis(methyl isocyanide)iron, *see* Fe-00295
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(iodomethyl)-(triphenylphosphine)iron, Fe-01897
- Carbonyl- π -cyclopentadienylidobis(phenyl isocyanide)iron, *see* Fe-01014
- Carbonyl- π -cyclopentadienylidobis(phosphorous acid)iron triphenyl ester, *see* Fe-01828
- Carbonyl- π -cyclopentadienylidobis(phosphorous acid)iron trimethyl ester, *see* Fe-00460
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)iodo(phosphorous trifluoride)iron, Fe-00119
- Carbonyl- π -cyclopentadienylidobis(trifluorophosphine)iron, *see* Fe-00119
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-iodo(trimethylphosphine)iron, Fe-00459
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)iodo(trimethyl phosphite-*P*)iron, Fe-00460
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)iodo(triphenylarsine)iron, Fe-01819
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-iodo(triphenylphosphine)iron, Fe-01826
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)iodo(triphenyl phosphite-*P*)iron, Fe-01828
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)iodo(triphenylstibine)iron, Fe-01827
- Carbonyl- π -cyclopentadienyl(isocyanato)-(triphenylphosphine)iron, *see* Fe-01873
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(isocyanomethane)-(triphenylphosphine)iron(1+), Fe-01928
- Carbonyl- π -cyclopentadienyl(isoselenocyanato)-(triphenylphosphine)iron, *see* Fe-01871
- Carbonyl- η^5 -cyclopentadienyl(menthyloxymethyl)-(triphenylphosphine)iron, Fe-02105
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(methanesulfonato-*O*)-(triphenylphosphine)iron, Fe-01904
- Carbonyl- π -cyclopentadienyl(methoxycarbene)-(triphenylphosphine)iron(1+), *see* Fe-01935
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(methoxycarbonyl)-(triphenylphosphine)iron, *in* Fe-01889
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(methoxymethylene)-(triphenylphosphine)iron(1+), Fe-01935
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(methoxymethyl)-(triphenylphosphine)iron, Fe-01936
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-[methylenebis[diphenylphosphine]-*P,P'*]iron(1+), Fe-02035
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)[(2,3,6- η)-3-methylenethiophene]iron, Fe-00709
- Carbonyl- π -cyclopentadienyl(methyl isocyanide)(triphenylphosphine)iron(1+), *see* Fe-01928
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)[[5-methyl-2-(1-methylethyl)cyclohexyl]oxy]methyl](triphenylphosphine)iron, *see* Fe-02105
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)[2-[[5-methyl-2-(1-methylethyl)cyclohexyl]oxy]-2-oxoethyl]-triphenyl ester, *see* Fe-01906
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2,3- η)-2-methyl-2-propenyl]iron, Fe-00619
- Carbonyl- π -cyclopentadienyl(*O*-methylsulfonyl)-(triphenylphosphine)iron, *see* Fe-01904
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(methylsulfonyl)-(triphenylphosphine)iron, Fe-01905
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-methyl(trimethylphosphine)iron, Fe-00643
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-methyl(triphenylphosphine)iron, Fe-01903
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)methyl(triphenyl phosphite-*P*)iron, Fe-01906
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methyltrithiocarbonato-*S,S'*)iron, Fe-00297
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)nitrosyliron, Fe-00121
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(phenylethynyl)-(triphenylphosphine)iron, Fe-02064
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(phenylmethylene)-(triphenylphosphine)iron(1+), *see* Fe-02032
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(phenylmethyl)-(triphenylphosphine)iron, *see* Fe-02034
- Carbonyl- π -cyclopentadienylphenyl(phosphorous acid)iron triphenyl ester, *see* Fe-02003
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-phenyl(triphenylarsine)iron, Fe-02001
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-phenyl(triphenylphosphine)iron, Fe-02002
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)phenyl(triphenyl phosphite-*P*)iron, Fe-02003
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(phenyltrithiocarbonato-*S,S'*)iron, Fe-01016
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^3 -2-propenyl)iron, Fe-00426
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(selenocyanato-*N*)-(triphenylphosphine)iron, Fe-01871
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(selenocyanato-*Se*)-(triphenyl phosphite-*P*)iron, Fe-01875
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(selenocyanato-*Se*)-(triphenylphosphine)iron, Fe-01872
- Carbonyl- π -cyclopentadienyl- π -3-thenyliron, *see* Fe-00709
- Carbonyl- π -cyclopentadienyl(thiocarbonyl)(triphenylarsine)iron(1+), *see* Fe-01865

- Carbonyl- π -cyclopentadienyl(thiocarbonyl)-(triphenylphosphine)iron(1+), *see* Fe-01878
- Carbonyl- π -cyclopentadienyl(thiocarbonyl)-(triphenylstibine)iron(1+), *see* Fe-01879
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(thiocyanato-*N*)-(triphenylphosphine)iron, Fe-01870
- Carbonyl- π -cyclopentadienyl(trifluoroacetyl)-(triphenylphosphine)iron, Fe-01918
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(trifluoroethanoyl)-(triphenylphosphine)iron, *see* Fe-01918
- Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(trifluoromethyl)-(triphenylphosphine)iron, Fe-01867
- Carbonylcyclopentadienyl(triphenyl phosphite)iron selenocyanate, *see* Fe-01875
- μ -Carbonyldecacarbonylbis[μ_4 -(1,1-dimethylethyl)phosphino]tetrairon, Fe-01627
- μ -Carbonyldecacarbonylbis(μ_4 -phenylphosphino)tetrairon, Fe-01783
- μ -Carbonyldecacarbonyl- μ -hydrotriferrate(1-), Fe-00653
- μ -Carbonyldicarbonylbis(η^4 -1,3-cyclobutadiene)diiron, Fe-00686
- μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(dicyanoethenylidene)]diiron, Fe-01472
- μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(dimethylgermylene)]diiron, Fe-01343
- μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(dimethylstannylene)]diiron, Fe-01344
- μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(diphenylgermylene)]diiron, Fe-01886
- μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(diphenylstannylene)]diiron, Fe-01887
- μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(η^2 -ethenyl)]diiron(1+), Fe-01329
- μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -ethenylidenediiron, Fe-01315
- μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -ethylidenediiron, Fe-01336
- μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -ethylidynediiron(1+), Fe-01330
- μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(methoxymethylene)]diiron, Fe-01337
- μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylidiiron(1+), Fe-01191
- μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylenediiron, Fe-01183
- μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylidynediiron(1+), Fe-01174
- μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -propylidenediiron, Fe-01423
- μ -Carbonyldicarbonyldi- π -cyclopentadienyl[μ -(dimethylgermylene)]diiron, *see* Fe-01343
- μ -Carbonyldicarbonyldi- π -cyclopentadienyl[μ -(dimethylstannylene)]diiron, *see* Fe-01344
- μ -Carbonyldicarbonyldi- π -cyclopentadienyl[μ -(diphenylgermylene)]diiron, *see* Fe-01886
- μ -Carbonyldicarbonyldi- π -cyclopentadienyl[μ -(diphenylstannylene)]diiron, *see* Fe-01887
- Carbonyldicyano- π -cyclopentadienyliron(1-), *see* Fe-00263
- Carbonyl[(dimethylamino)ethoxymethylene]dinitrosyliron, Fe-00139
- Carbonyl(1,2,3,4- η)-2,3-dimethyl-1,3-butadiene[*N,N'*-1,2-ethanediylidenebis[2-propanamine]-*N,N'*]iron, Fe-01360
- Carbonyl(1,3-dimethyl-2-imidazolidinylidene)dinitrosyliron, Fe-00138
- Carbonyldinitrosyl(phosphorous acid)iron trimethyl ester, *see* Fe-00053
- Carbonyldinitrosyl(trimethyl phosphite-*P*)iron, Fe-00053
- Carbonyldinitrosyl(triphenylarsine)iron, Fe-01604
- Carbonyldinitrosyl(triphenylphosphine)iron, Fe-01614
- Carbonyldinitrosyl(triphenyl phosphite-*P*)iron, Fe-01616
- Carbonyldinitrosyl(triphenylstibine)iron, Fe-01615
- [μ_4 -(Carbonyl-C:C:C:C,O)]dodecacarbonyl- μ -hydrotetraferate(1-), *see* Fe-00993
- μ_3 -Carbonyldodecacarbonylhydrotetraferate(1-), Fe-00993
- μ -Carbonyldodecacarbonyl- μ_4 -methanetetrayltetrairon, Fe-01132
- μ_3 -Carbonyldodecacarbonyltetraferate(2-), *see* Fe-00989
- Carbonyl(ethoxyphenylmethylene)dinitrosyliron, Fe-00566
- Carbonylferrocenylruthenocene, *see* Fe-01715
- μ -Carbonylhexacarbonylbis[μ -(dibutylstannylene)]diiron, Fe-01809
- μ -Carbonylhexacarbonylbis[μ -(difluoromethylene)]diiron, Fe-00330
- μ -Carbonylhexacarbonylbis[μ -(dimethylgermylene)]diiron, Fe-00762
- μ -Carbonylhexacarbonylbis[μ -(dimethylsilylene)]diiron, Fe-00764
- μ -Carbonylhexacarbonylbis[μ -(diphenylgermylene)]diiron, Fe-02028
- μ -Carbonylhexacarbonyl(μ -carbonylpentacarbonyldiiron)di- μ -hydrodiruthenium, Fe-00999
- μ -Carbonylhexacarbonyl[μ -(pyridazine-*N*²,*N*³)]diiron, Fe-00656
- Carbonylhydriodotris(trimethylphosphine)iron, Fe-00651
- Carbonylhydronitrosylbis(triphenylphosphine)iron, Fe-02129
- Carbonyl(π -indenyl)iido(phosphorous acid)iron trimethyl ester, *see* Fe-01097
- Carbonyl[(1,2,3,3*a*,7*a*- η)-1*H*-inden-1-yl](η^3 -2-propenyl)iron, Fe-01046
- Carbonyliodo[(1,2,3,3*a*,7*a*- η)-1*H*-inden-1-yl](trimethyl phosphite-*P*)iron, Fe-01097
- Carbonyliodo(methyl- π -cyclopentadienyl)(phosphorous acid)iron triphenyl ester, *see* Fe-01900
- Carbonyliodo(methyl- π -cyclopentadienyl)(phosphorous acid)iron trimethyl ester, *see* Fe-00641
- Carbonyliodo[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](trimethyl phosphite-*P*)iron, Fe-00641
- Carbonyliodo[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](triphenylarsine)iron, Fe-01892
- Carbonyliodo[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](triphenylphosphine)iron, Fe-01898
- Carbonyliodo[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](triphenyl phosphite)iron, Fe-01900
- Carbonyliodo[(1,2,3,4,5- η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl](triphenylphosphine)iron, Fe-02033
- Carbonyliodo[(methylthio)thioxomethyl]-bis(trimethylphosphine)iron, Fe-00468
- Carbonyl(methoxycarbonyl)nitrosylbis(triphenylphosphine)iron, Fe-02148
- Carbonyl(2-methyl- π -allyl)nitrosyl(triphenylphosphine)iron, *see* Fe-01805
- (μ -Carbonyl)(μ -methylene)[(cyclopentadienylcarbonyliron)tetracarbonylmanganese], *see* Fe-00820
- Carbonylmethyl[(1,2,3,4,5- η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl](triphenylphosphine)iron, Fe-02068
- Carbonyl[(1,2,3- η)-2-methyl-2-propenyl]-nitrosyl(triphenylphosphine)iron, Fe-01805
- Carbonylnitrosylbis(triphenylphosphine)ferrate(1-), Fe-02128
- Carbonylnitrosyl(phenylazo)(triphenylphosphine)iron, Fe-01877
- Carbonylnitrosyl(η^3 -2-propenyl)(triphenylphosphine)iron, Fe-01762
- μ_3 -Carbonylnonacarbonyl[μ_3 -(ethanaminato(2-))]triiron, Fe-00813
- μ_3 -Carbonylnonacarbonyl- μ_3 -imidotriiron, Fe-00478
- μ -Carbonylpentacarbonyl(η^5 -2,4-cyclopentadienyl)iron- μ -methylenemanganese, Fe-00820
- μ -Carbonyltetracarbonyl[μ -(1,2,3,4- η :5,6,7,8- η)-1,3,5,7-cyclooctatetraene]]diiron, Fe-01010
- μ -Carbonyltetracarbonyl(η^5 -2,4-cyclopentadien-1-yl)[μ -(diphenylphosphino)]diiron, Fe-01739
- Carbonyltetrakis(phosphorous trifluoride-*P*)iron, Fe-00003
- Carbonyltetrakis(trimethyl phosphite-*P*)iron, Fe-01127
- Carbonyl(η^4 -tetraphenylcyclobutadiene)-nitrosyl(triphenylphosphine)iron(1+), Fe-02178
- μ -Carbonyltridecacarbonyl- μ_5 -nitridopentaferate(1-), Fe-01133
- [μ -(Carbonyl-C,O)]tris[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl][dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron]samarium, Fe-01911
- μ -Carbonylundecacarbonyl[μ_3 -(methoxymethylidyne)]tetraferate(1-), Fe-01136
- (*o*-Carboran-3-yl)ferrocene, *see* Fe-00976

- (2-Carboxybenzoyl)ferrocene, *see* Fe-01540
 (4-Carboxybutyl)ferrocene, *see* Fe-01346
 Carboxycarbonylferrocene, *see* Fe-00854
 (η^5 -Carboxycyclopentadienyl)(η^6 -hexamethylbenzene)iron(1+), Fe-01579
 1-Carboxy-2-[(dimethylamino)methyl]ferrocene, *see* Fe-01239
 1-Carboxy-1',2-dimethylferrocene, *see* Fe-01076
 1-Carboxy-1',3-dimethylferrocene, *see* Fe-01077
 (2-Carboxyethenyl)ferrocene, *see* Fe-01055
 (2-Carboxyethyl)ferrocene, *see* Fe-01078
 [(2-Carboxyethyl)thio]ferrocene, Fe-01079
 (Carboxyethynyl)ferrocene, *see* Fe-01018
 Carboxyferrocene, *see* Fe-00711
 1-Carboxy-1'-(ferrocenylcarbonyl)ferrocene, *see* Fe-01756
 1-Carboxy-2-formylferrocene, *see* Fe-00855
 1-Carboxy-2-hydroxyferrocene, *see* Fe-00715
 (2-Carboxy-4-isothiocyanatophenyl)ferrocene, Fe-01530
 [(1,2,3,4,5- η)-1-Carboxylato-2,4-cyclopentadien-1-yl]-[(1,2,3,4,5,6- η)-hexamethylbenzene]iron, *see* Fe-01579
 [(1,2,3,4,5- η)-1-Carboxylato-2,4-cyclopentadien-1-yl]-[(1,2,3,4,5,6- η)-hexamethylbenzene]iron compd. with HBF_4 , *in* Fe-01579
 σ -(Carboxymethyl)- π -cyclopentadienyliron dicarbonyl, *see* Fe-00396
 σ -Carboxymethyl- π -cyclopentadienyliron dicarbonyl menthyl ester, *see* Fe-01639
 σ -Carboxymethyl- π -cyclopentadienyliron(triphenylphosphine) carbonyl menthyl ester, *see* Fe-02119
 (Carboxymethyl)ferrocene, *see* Fe-00899
 1-Carboxy-1'-methylferrocene, *see* Fe-00901
 1-Carboxy-2-methylferrocene, *see* Fe-00902
 1-Carboxy-3-methylferrocene, *see* Fe-00903
 [1-[(Carboxymethyl)thio]ethyl]ferrocene, Fe-01227
 [(Carboxymethyl)thio]ferrocene, Fe-00904
 [(Carboxymethyl)thio]methylferrocene, *see* Fe-01080
 (3-Carboxy-1-oxopropyl)ferrocene, *see* Fe-01207
 (5-Carboxypentyl)ferrocene, *see* Fe-01435
 4-Carboxyphenylferrocene, *see* Fe-01484
 1-Carboxy-2-phenylferrocene, Fe-01483
 1-Carboxy-3-phenylferrocene, *see* Fe-01485
 (3-Carboxypropyl)ferrocene, *see* Fe-01228
 (2-Carboxyvinyl)ferrocene, *see* Fe-01055
 (Chalcone)iron tricarbonyl, *see* Fe-01524
 (Chloroacetyl)ferrocene, Fe-00877
 (η^6 -Chlorobenzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00704
 Chlorobis[1,2-ethanediylbis(diphenylphosphine)- P,P']hydroiron, Fe-02190
 Chlorobis[ethylenebis(diphenylphosphine)]hydroiron, *see* Fe-02190
 (Chlorocarbonyl)ferrocene, *in* Fe-00711
 [(1,2,3,4,5- η)-1-Chloro-2,4-cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00729
 [(1,2,3,4,5- η)-2-Chloro-2,4-cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00730
 Chloro(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)- P,P']iron, Fe-02042
 Chloro(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)- P,P']iron(1+), Fe-02043
 Chloro- π -cyclopentadienyl[ethylenebis(diphenylphosphine)]iron, *see* Fe-02042
 (η^5 -Chlorocyclopentadienyl)(η^5 -ethynylcyclopentadienyl)iron, *see* Fe-00839
 Chlorodicarbonyl(1-isopropenyl-2,3,4,5-tetramethyl- π -cyclopentadienyl)iron, *see* Fe-01234
 Chlorodiferrocenylphosphine, Fe-01665
 1-Chloro-2-[(dimethylamino)methyl]ferrocene, Fe-01092
 2-Chloro- N,N -dimethylferrocenemethylamine, *see* Fe-01092
 Chlorodinitrosyliron, *in* Fe-02208
 Chlorodinitrosyl(triphenylphosphine)iron, Fe-01551
 (1-Chloroethenyl)ferrocene, Fe-00874
 (2-Chloroethenyl)ferrocene, Fe-00875
 (1-Chloroethyl)ferrocene, Fe-00919
 (2-Chloroethyl)ferrocene, Fe-00920
 1-Chloro-1'-ethynylferrocene, Fe-00839
 Chloroferrocene, Fe-00546
 1-Chloro-1-ferrocenylethane, *see* Fe-00919
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 [(1,2,3,4- η)-1,3,5-Cycloheptatriene][(1,2,3,4,5,6- η)-methylbenzene]iron, Fe-01216
 (η^4 -Cycloheptatriene)(η^6 -toluene)iron, *see* Fe-01216
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 [(1,2,3,4- η)-1,3,5-Cycloheptatriene]tris(trimethyl phosphite-*P*)iron, Fe-01465
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 η^1 -Cycloheptatrienylidene- η^5 -cyclopentadienyldicarbonyliron(1+), *see* Fe-01173
 μ -[1,2,3- η :4,5,6,7- η -Cycloheptatrienyl]tricarbonyliron dicarbonylrhodium, *see* Fe-00822
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 1,3-Cyclohexadienetetracarbonyliron, *see* Fe-00390
 [(1,2,3,4- η)-1,3-Cyclohexadiene]tris(trimethyl phosphite-*P*)iron, Fe-01363
 (2,4-Cyclohexadienone)tricarbonyliron, *see* Fe-00355
 [(1,2,3,4,5- η)-Cyclohexadien-6-onyl](η^5 -cyclopentadienyl)iron, *see* Fe-00707
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 (Cyclohexadienyl)(cyclopentadienyl)diiron tetracarbonyl, *see* Fe-01316
 [(1,2,3,4,5- η)-2,4-Cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00748
 [(1,2,3,4,5- η)-2,4-Cyclohexadien-1-yl]hydrobis(trimethyl phosphite-*P*)iron, Fe-00980
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 [(1,2,5,6- η)-1,5-Cyclooctadiene][(1,2,3,4,5,6- η)-1,3,5-cyclooctatriene]iron, Fe-01444
 [(1,2,5,6- η)-1,5-Cyclooctadiene](η^5 -2,4-cyclopentadien-1-yl)ferrate(1-), Fe-01107
 [(1,2,5,6- η)-1,5-Cyclooctadiene][1-[1-(dimethylamino)-ethyl]-2-(diphenylphosphino)ferrocene-*N,P*]rhodium(1+), Fe-02096
 (1,5-Cyclooctadiene)[(2-diphenylphosphinoferrocenyl)-ethyl]dimethylamine]rhodium(1+), *see* Fe-02096
 [(1,2,5,6- η)-1,5-Cyclooctadiene][(1,2,3,4,5,6- η)-hexamethylbenzene]iron, Fe-01692
 [(1,2,3,4- η)-1,3-Cyclooctadiene][(1,2,3,4,5,6- η)-methylbenzene]iron, Fe-01353
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 1,5-Cyclooctadienetetracarbonyliron, *see* Fe-00754
 [(1,2,3,4- η)-1,3-Cyclooctadiene]tris(trimethyl phosphite-*P*)iron, Fe-01509
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 [(1,2,3,4,5,6- η)-1,3,5,7-Cyclooctatetraene](η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-01061
 [(1,2,3,4- η)-1,3,5,7-Cyclooctatetraene][(1,2,3,4,5,6- η)-hexamethylbenzene]iron, Fe-01685
 [(1,2,3,4- η)-1,3,5,7-Cyclooctatetraene][(1,2,3,4,5,6- η)-methylbenzene]iron, Fe-01339
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 (η^4 -Cyclooctatetraene)(η^6 -toluene)iron, *see* Fe-01339
 (η^4 -Cyclooctatetraene)tricarbonyliron, *see* Fe-00675
 [(1,2,3,4- η)-1,3,5,7-Cyclooctatetraene]tris(trimethyl phosphite-*P*)iron, Fe-01507
 σ -Cyclooctatetraenyl- π -cyclopentadienyldicarbonyliron, *see* Fe-01307
 [(1,2,3,4,5,6- η)-1,3,5-Cyclooctatriene][(2,3,4,5,6- η)-2,3-dimethyl-1,4,5,6-tetrahydro-2,3-dicarbahexaborato(2-)]iron, Fe-00974
 [(1,2,3,4,5,6- η)-1,3,5-Cyclooctatriene][(1,2,3,4,5- η)-pentahydro-1,2-diethyl-1,2-dicarbapentaborato(2-)]iron, Fe-01278
 [(1,2,3,4- η)-1,3,5-Cyclooctatriene]tris(trimethyl phosphite-*P*)iron, Fe-01508
 [(1,2,3,4,5- η)-2,4,6-Cyclooctatrien-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01066
 π -Cyclooctatrienyl- π -cyclopentadienyliron, *see* Fe-01066
 [(1,2,3- η)-2-Cycloocten-1-yl]tris(trimethyl phosphite-*P*)iron, Fe-01510
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 (η^4 -1,3-Cyclopentadiene)[(1,2,3,4,5,6- η)-1,2,3,4,5,6-hexaethylbenzene]iron, Fe-01808
 (1,3-Cyclopentadiene)tris(phosphorous acid)iron nonaphenyl ester, *see* Fe-02200
 (η^5 -2,4-Cyclopentadiene)tris(triphenyl phosphite)iron, Fe-02200
 Cyclopentadienoneiron tricarbonyl, *see* Fe-00251
 1-(η^5 -Cyclopentadienyl)-*FeB₅H₁₀*, *see* Fe-00088
 2-(η^5 -Cyclopentadienyl)-*FeB₅H₁₀*, *see* Fe-00089
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 π -Cyclopentadienyl-(π -7,9-B₉C₂H₁₁)iron, *see* Fe-00235
 Cyclopentadienylbenzeneiron(1+), *see* Fe-00734
 [(η^5 -2,4-Cyclopentadien-1-yl)benzene]tris(triphenyl phosphite)iron, *see* Fe-02203
 η^5 -Cyclopentadienyl[1,2-bis(diphenylphosphino)ethane]propynyliron, *see* Fe-02095
 Cyclopentadienylbis(methyl isonitrile)iron bromide, *see* Fe-00443
 Cyclopentadienylbis(methyl isonitrile)iron iodide, *see* Fe-00444
 π -Cyclopentadienylbis(phenyl isocyanide)(thiocarbonyl)-iron(1+), *see* Fe-01656
 Cyclopentadienylbis(phenyl isonitrile)iron bromide, *see* Fe-01607
 Cyclopentadienylbis(phenyl isonitrile)iron iodide, *see* Fe-01610
 (η^5 -2,4-Cyclopentadien-1-yl)bis(phosphorous trifluoride)ferrate(1-), Fe-00078
 (η^5 -Cyclopentadienyl)bromobis(methyl isocyanide)iron, *see* Fe-00443
 (η^5 -Cyclopentadienyl)bromocarbonyl(trimethyl phosphite)iron, *see* Fe-00456
 (η^5 -Cyclopentadienyl)bromocarbonyl(triphenylphosphine)iron, *see* Fe-01822
 (η^5 -Cyclopentadienyl)bromocarbonyl(triphenyl phosphite)iron, *see* Fe-01823
 (η^5 -Cyclopentadienyl)(bromomethyl)-carbonyl(triphenylphosphine)iron, *see* Fe-01893
 (η^5 -Cyclopentadienyl)carbonylbis(cyano)iron(1-), *see* Fe-00263
 Cyclopentadienylcarbonylbis(methyl isocyanide)iron(1+), *see* Fe-00604
 (η^5 -Cyclopentadienyl)carbonyl(chloromethyl)-(triphenylphosphine)iron, *see* Fe-01895
 (η^5 -Cyclopentadienyl)carbonylchloro(trimethylphosphine)iron, *see* Fe-00457
 (η^5 -Cyclopentadienyl)carbonylchloro(trimethyl phosphite)iron, *see* Fe-00458
 (η^5 -Cyclopentadienyl)carbonyl(chloro)(triphenylphosphine)iron, *see* Fe-01824

- (η⁵-Cyclopentadienyl)carbonylchloro(triphenyl phosphite)iron, *see* Fe-01825
- (η⁵-Cyclopentadienyl)carbonylciano(methyl isocyanide)iron, *see* Fe-00381
- (η⁵-Cyclopentadienyl)carbonyl(cyanomethyl)-(triphenylphosphine)iron, *see* Fe-01924
- (η⁵-Cyclopentadienyl)carbonyl(cyano)(trimethylphosphine)iron, *see* Fe-00631
- (η⁵-Cyclopentadienyl)carbonylciano(triphenylphosphine)iron, *see* Fe-01869
- (η⁵-Cyclopentadienyl)carbonyldicyanoiron(1-), *see* Fe-00263
- (η⁵-Cyclopentadienyl)carbonyl(hydrido)(triphenylphosphine)iron, *see* Fe-01841
- (η⁵-Cyclopentadienyl)carbonylhydrido(triphenyl phosphite)iron, *see* Fe-01843
- (η⁵-Cyclopentadienyl)carbonyliodo(methyl isocyanide)iron, *see* Fe-00295
- (η⁵-Cyclopentadienyl)carbonyl(iodomethyl)-(triphenylphosphine)iron, *see* Fe-01897
- (η⁵-Cyclopentadienyl)carbonyliodo(phenyl isocyanide)iron, *see* Fe-01014
- (η⁵-Cyclopentadienyl)carbonyliodo(trimethylphosphine)iron, *see* Fe-00459
- (η⁵-Cyclopentadienyl)carbonyl(iodo)(trimethyl phosphite)iron, *see* Fe-00460
- (η⁵-Cyclopentadienyl)carbonyliodo(triphenylarsine)iron, *see* Fe-01819
- (η⁵-Cyclopentadienyl)carbonyliodo(triphenylphosphine)iron, *see* Fe-01826
- (η⁵-Cyclopentadienyl)carbonyliodo(triphenyl phosphite)iron, *see* Fe-01828
- (η⁵-Cyclopentadienyl)carbonyliodo(triphenylstibine)iron, *see* Fe-01827
- Cyclopentadienylcarbonyliron dimethyldithiocarbamate, *see* Fe-00445
- Cyclopentadienylcarbonyliron methyltrithiocarbonate, *see* Fe-00297
- Cyclopentadienylcarbonyliron phenyltrithiocarbonate, *see* Fe-01016
- (η⁵-Cyclopentadienyl)carbonyl(isocyanato)-(triphenylphosphine)iron, *see* Fe-01873
- (η⁵-Cyclopentadienyl)carbonyl(isoselenocyanato)-(triphenylphosphine)iron, *see* Fe-01871
- (η⁵-Cyclopentadienyl)carbonyl(methoxymethyl)-(triphenylphosphine)iron, *see* Fe-01936
- (η⁵-Cyclopentadienyl)-carbonyl[methylenebis(diphenylphosphine)]iron(1+), *see* Fe-02035
- π-Cyclopentadienylcarbonyl(methyl isonitrile)iron cyanide, *see* Fe-00381
- π-Cyclopentadienylcarbonyl(methyl isonitrile)iron iodide, *see* Fe-00295
- (η⁵-Cyclopentadienyl)carbonyl(methyl-*O*-sulfinato)-(triphenylphosphine)iron, *see* Fe-01904
- (η⁵-Cyclopentadienyl)carbonyl(methyl-*S*-sulfinato)-(triphenylphosphine)iron, *see* Fe-01905
- (η⁵-Cyclopentadienyl)carbonylmethyl(triphenylphosphine)iron, *see* Fe-01903
- Cyclopentadienylcarbonyl(phenyl isonitrile)iron iodide, *see* Fe-01014
- (η⁵-Cyclopentadienyl)carbonylphenyl(triphenylarsine)iron, *see* Fe-02001
- (η⁵-Cyclopentadienyl)carbonylphenyl(triphenylphosphine)iron, *see* Fe-02002
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- (η⁵-Cyclopentadienyl)carbonyl(selenocyanato)-(triphenylphosphine)iron, *see* Fe-01872
- (η⁵-Cyclopentadienyl)carbonyl(thiocarbonyl)-(triphenylantimony)iron(1+), *see* Fe-01879
- (η⁵-Cyclopentadienyl)carbonyl(thiocarbonyl)-(triphenylarsine)iron(1+), *see* Fe-01865
- (η⁵-Cyclopentadienyl)carbonyl(thiocarbonyl)-(triphenylphosphine)iron(1+), *see* Fe-01878
- (η⁵-Cyclopentadienyl)carbonyl(thiocyanato)-(triphenylphosphine)iron, *see* Fe-01870
- Cyclopentadienylcarbonyl(trimethylphosphine)iron chloride, *see* Fe-00457
- Cyclopentadienylcarbonyl(trimethylphosphine)iron cyanide, *see* Fe-00631
- Cyclopentadienylcarbonyl(trimethylphosphine)iron iodide, *see* Fe-00459
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- Cyclopentadienylcarbonyl(trimethyl phosphite)iron iodide, *see* Fe-00460
- Cyclopentadienylcarbonyl(triphenylantimony)iron iodide, *see* Fe-01827
- Cyclopentadienylcarbonyl(triphenylarsine)iron iodide, *see* Fe-01819
- (η⁵-Cyclopentadienyl)carbonyl(triphenylphosphine)benzyliron, *see* Fe-02034
- Cyclopentadienylcarbonyl(triphenylphosphine)iron bromide, *see* Fe-01822
- Cyclopentadienylcarbonyl(triphenylphosphine)iron chloride, *see* Fe-01824
- Cyclopentadienylcarbonyl(triphenylphosphine)iron cyanide, *see* Fe-01869
- (η⁵-Cyclopentadienyl)carbonyl(triphenylphosphine)iron hydride, *see* Fe-01841
- Cyclopentadienylcarbonyl(triphenylphosphine)iron iodide, *see* Fe-01826
- Cyclopentadienylcarbonyl(triphenylphosphine)iron isocyanate, *see* Fe-01873
- Cyclopentadienylcarbonyl(triphenylphosphine)iron isoselenocyanate, *see* Fe-01871
- Cyclopentadienylcarbonyl(triphenylphosphine)iron selenocyanate, *see* Fe-01872
- Cyclopentadienylcarbonyl(triphenylphosphine)iron thiocyanate, *see* Fe-01870
- (η⁵-Cyclopentadienyl)carbonyl(triphenylphosphine)-(trifluoromethyl)iron, *see* Fe-01867
- Cyclopentadienylcarbonyl(triphenyl phosphite)iron bromide, *see* Fe-01823
- Cyclopentadienylcarbonyl(triphenyl phosphite)iron chloride, *see* Fe-01825
- Cyclopentadienylcarbonyl(triphenyl phosphite)iron cyanide, *see* Fe-01874
- Cyclopentadienylcarbonyl(triphenyl phosphite)iron hydride, *see* Fe-01843
- Cyclopentadienylcarbonyl(triphenyl phosphite)iron iodide, *see* Fe-01828
- (Cyclopentadienyl)(cyanobenzene)iron(1+), *see* Fe-00845
- (η⁵-Cyclopentadienyl)cyanocarbonyl(triphenylphosphine)iron, *see* Fe-01869
- σ-Cyclopentadienyl-π-cyclopentadienyldicarbonyliron, *see* Fe-00848
- (η⁵-2,4-Cyclopentadien-1-yl)[η⁶-decahydrocarbadeborato(2-)]ferrate(1-), Fe-00141
- (η⁵-2,4-Cyclopentadien-1-yl)[(5,6,7,8,9,10-η)-decahydro-6,9-dicarbadeborato(2-)]iron, Fe-00233
- (η⁵-2,4-Cyclopentadien-1-yl)[η⁵-decahydropentaborato(1-)]iron, Fe-00088
- (η⁵-2,4-Cyclopentadien-1-yl)[η⁵-decahydropentaborato(1-)]iron, Fe-00089
- (η⁵-Cyclopentadienyl)dicarbonyl-*tert*-butyliron, *see* Fe-00777
- π-Cyclopentadienyldicarbonyl-σ-(2,2-dimethoxyethyl)iron, *see* Fe-00779
- (η⁵-Cyclopentadienyl)dicarbonyl(diphenylboryl)iron, *see* Fe-01606
- (η⁵-Cyclopentadienyl)dicarbonyliodoiron, *see* Fe-00190
- π-Cyclopentadienyldicarbonyliron(1-), *see* Fe-00194
- (Cyclopentadienyldicarbonyliron)arsenic dibromide, *see* Fe-00168
- Cyclopentadienyldicarbonyliron azide, *see* Fe-00192
- (Cyclopentadienyldicarbonyliron)bismuth dibromide, *see* Fe-00170
- Cyclopentadienyldicarbonyliron[bis(trifluoromethyl)phosphine], *see* Fe-00347
- (Cyclopentadienyldicarbonyliron)boron dichloride, *see* Fe-00169
- Cyclopentadienyldicarbonyliron bromide, *see* Fe-00173
- Cyclopentadienyldicarbonyliron chloride, *see* Fe-00182
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- (Cyclopentadienyldicarbonyliron)dibromoantimony, *see* Fe-00178
 Cyclopentadienyldicarbonyliron dimethylantimony, *see* Fe-00448
N-(Cyclopentadienyldicarbonyliron)diphenylamine, *see* Fe-01613
 (Cyclopentadienyldicarbonyliron)diphenylphosphine, *see* Fe-01618
 Cyclopentadienyldicarbonyliron(diphenyl phosphinite), *see* Fe-01620
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 (Cyclopentadienyldicarbonyliron)germanium tribromide, *see* Fe-00179
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 Cyclopentadienyldicarbonyliron hydride, *see* Fe-00200
 (Cyclopentadienyldicarbonyliron)indium dibromide, *see* Fe-00177
 Cyclopentadienyldicarbonyliron iodide, *see* Fe-00190
 Cyclopentadienyldicarbonyliron isocyanate, *see* Fe-00262
 Cyclopentadienyldicarbonyliron isothiocyanate, *see* Fe-00259
 Cyclopentadienyldicarbonyliron magnesium bromide, *see* Fe-00172
 (Cyclopentadienyldicarbonyliron)mercuric bromide, *see* Fe-00171
 (Cyclopentadienyldicarbonyliron)mercuric chloride, *see* Fe-00181
 Cyclopentadienyldicarbonyliron methylmercaptide, *see* Fe-00299
 (η^5 -Cyclopentadienyl)dicarbonyliron pentacarbonylmanganese, *see* Fe-00810
 Cyclopentadienyldicarbonyliron pentafluorophenylmercaptide, *see* Fe-01003
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 (Cyclopentadienyldicarbonyliron)phenylmercury, *see* Fe-01013
 Cyclopentadienyldicarbonyliron phenylselenide, *see* Fe-01020
 Cyclopentadienyldicarbonyliron phenyltelluride, *see* Fe-01021
 Cyclopentadienyldicarbonyliron selenocyanate, *see* Fe-00261
 (η^5 -Cyclopentadienyl)dicarbonyliron tetracarbonylcobalt, *see* Fe-00657
 Cyclopentadienyldicarbonyliron thiocyanate, *see* Fe-00260
 (Cyclopentadienyldicarbonyliron)tin tribromide, *see* Fe-00180
 (Cyclopentadienyldicarbonyliron)tin trichloride, *see* Fe-00188
 [(η^5 -Cyclopentadienyl)dicarbonyliron]trichlorosilane, *see* Fe-00187
 (Cyclopentadienyldicarbonyliron)trimethylsilane, *see* Fe-00634
 (Cyclopentadienyldicarbonyliron)trimethyltin, *see* Fe-00635
 Cyclopentadienyl(dicarbonyliron)triphenylgermanium, *see* Fe-01868
 (π -Cyclopentadienyldicarbonyliron)triphenyllead, *see* Fe-01881
 (π -Cyclopentadienyldicarbonyliron)triphenylplumbane, *see* Fe-01881
 (Cyclopentadienyldicarbonyliron)triphenylsilane, *see* Fe-01883
 (Cyclopentadienyldicarbonyliron)triphenyltin, *see* Fe-01884
 (η^5 -Cyclopentadienyl)dicarbonylisobutyliron, *see* Fe-00778
 (η^5 -Cyclopentadienyl)dicarbonyl(isocyanato)iron, *see* Fe-00262
 (η^5 -Cyclopentadienyl)dicarbonyl(isothiocyanato)iron, *see* Fe-00259
 Cyclopentadienyldicarbonylmethyliron, *see* Fe-00298
 (η^5 -Cyclopentadienyl)dicarbonyl(methyl-*O*-sulfinato)iron, *see* Fe-00308
 (η^5 -Cyclopentadienyl)dicarbonyl(methyl-*S*-sulfinato)iron, *see* Fe-00309
 (η^5 -Cyclopentadienyl)dicarbonyl(pentafluoropropionyl)iron, *see* Fe-00488
 (η^5 -Cyclopentadienyl)dicarbonyl(phenylselenolato)iron, *see* Fe-01020
 (η^5 -Cyclopentadienyl)dicarbonyl(phenyl-*S*-sulfinato)iron, *see* Fe-01028
 (η^5 -Cyclopentadienyl)dicarbonyl(phenyltelluroolato)iron, *see* Fe-01021
 (η^5 -Cyclopentadienyl)dicarbonyl(2-propyl)iron, *see* Fe-00620
 (η^5 -Cyclopentadienyl)dicarbonyl(tetrahydrofuran)iron(1+), *see* Fe-00770
 (η^5 -Cyclopentadienyl)dicarbonyl(thiocarbonyl)iron(1+), *see* Fe-00264
 (η^5 -Cyclopentadienyl)dicarbonyl(thiocyanato)iron, *see* Fe-00260
 (η^5 -Cyclopentadienyl)dicarbonyl(triphenylarsine)iron(1+), *see* Fe-01866
 (η^5 -Cyclopentadienyl)dicarbonyl(triphenylgermyl)iron, *see* Fe-01868
 (η^5 -Cyclopentadienyl)dicarbonyl(triphenylsilyl)iron, *see* Fe-01883
 (η^5 -Cyclopentadienyl)dicarbonyl(triphenylstannyl)iron, *see* Fe-01884
 (η^5 -Cyclopentadienyl)dicarbonyl(triphenylstibine)iron(1+), *see* Fe-01882
 (η^5 -Cyclopentadienyl)dicarbonylvinyliron, *see* Fe-00385
 (Cyclopentadienyl)(1,2-dichlorocyclopentadienyl)iron, *see* Fe-00510
 (η^5 -Cyclopentadienyl)dicyano(triphenylphosphine)iron(1–), *see* Fe-01876
 (η^5 -Cyclopentadienyl)(η^5 -1,2-diethylcyclopentadienyl)iron, *see* Fe-01246
 π -Cyclopentadienyl-(1,2-diformyl- π -cyclopentadienyl)iron, *see* Fe-00851
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3*a*,7*a*- η)-4,7-dihydro-4,7-dioxo-1*H*-inden-1-yl]iron, Fe-01149
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3*a*,7*a*- η)-4,5-dihydro-1*H*-inden-1-yl]iron, Fe-01194
 π -Cyclopentadienyl(π -6-dihydro-6-oxoazulenyl)iron, *see* Fe-01305
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3*a*,8*a*- η)-1,8-dihydro-8-oxocyclopenta[*a*]inden-1-yl]iron, Fe-01474
 (η^5 -2,4-Cyclopentadien-1-yl)[(3*a*,4,5,6,6*a*- η)-2,3-dihydro-1-oxo-3*a*(1*H*)-pentalenyl]iron, Fe-01047
 (η^5 -2,4-Cyclopentadien-1-yl)[(4*a*,5,6,7,7*a*- η)-3,4-dihydro-4*aH*-2-pyridin-4*a*-yl]iron, Fe-01063
 (η^5 -2,4-Cyclopentadien-1-yl)diiodonitrosyliron, Fe-00079
 (η^5 -2,4-Cyclopentadien-1-yl)(*N,N*-dimethylaniline)iron(1+), Fe-01099
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-2,5-dimethyl-1*H*-arsol-1-yl]iron, Fe-00765
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-*N,N*-dimethylbenzeneamine]iron(1+), *see* Fe-01099
 (η^5 -2,4-Cyclopentadien-1-yl)[1-(1,2,3,4,5- η)-3,4-dimethyl-5-phenyl-1*H*-phosphol-2-yl]ethanonato]iron, *see* Fe-01629
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-3,4-dimethyl-2-phenyl-1*H*-phosphol-1-yl]iron, Fe-01498
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphole-2-carboxaldehydato]iron, Fe-00931
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphole-2-methanolato]iron, Fe-00958
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-2-yl]ethanonato]iron, *see* Fe-01084
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-1-yl]iron, Fe-00774
 π -Cyclopentadienyl-(*N,N*-diphenylamino- π -cyclopentadienyl)iron, *see* Fe-01758
 π -Cyclopentadienyl(1,3-diphenyl- π -cyclopentadienyl)iron, *see* Fe-01747
 (η^5 -Cyclopentadienyl)(η^5 -1,2-divinylcyclopentadienyl)iron, *see* Fe-01196
 (η^5 -2,4-Cyclopentadien-1-yl)[η^6 -dodecahydrodicarbododecaborato(2–)]iron, Fe-00236
 (η^5 -2,4-Cyclopentadien-1-yl)[(7,8,9,10,11,12- η)-dodecahydro-7,9-dicarbododecaborato(2–)]iron, *see* Fe-00236
 (η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediybis[diphenylphosphine]-*P,P'*]ethenylideneiron(1+), Fe-02083
 (η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediybis[diphenylphosphine]-*P,P'*]hydroiron, Fe-02044
 (η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediybis[diphenylphosphine]-*P,P'*]methyliron, Fe-02071
 (η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediybis[diphenylphosphine]-*P,P'*]methyleneiron(1+), Fe-02070
 (η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediybis[diphenylphosphine]-*P,P'*](methoxymethyl)iron, Fe-02085

- (η⁵-2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-*P,P'*](2-methyl-1-propenylidene)iron(1+), Fe-02104
- (η⁵-2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-*P,P'*]-1-propynyliron, Fe-02095
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6-η)-ethyl benzoate]iron(1+) tetraphenylborate, *in* Fe-00883
- (π-Cyclopentadienyl)(π-ethylcyclopentadienyl)iron, *see* Fe-00938
- η⁵-Cyclopentadienyl-η²-ethylenedicarbonyliron(1+), *see* Fe-00420
- 1-(η⁵-Cyclopentadienyl)-1,4,6-FeC₂B₆H₈, *see* Fe-00230
- 4-(η-Cyclopentadienyl)-4,1,8-FeC₂B₆H₈, *see* Fe-00229
- closo*-[1-η⁵-Cyclopentadienylferrate-2-CB₉H₁₀], *see* Fe-00141
- π-Cyclopentadienyl-σ-ferrocenonyliron dicarbonyl, *see* Fe-01544
- π-Cyclopentadienyl-σ-ferrocenonyltungsten tricarbonyl, *see* Fe-01603
- π-Cyclopentadienyl[(ferrocenylcarbonyl)-π-cyclopentadienyl]ruthenium, *see* Fe-01715
- π-Cyclopentadienyl[(ferrocenylethynyl)-π-cyclopentadienyl]ruthenium, *see* Fe-01751
- π-Cyclopentadienyl-σ-ferrocenyliron dicarbonyl, *see* Fe-01487
- π-Cyclopentadienyl[(ferrocenylmethyl)-π-cyclopentadienyl]osmium, *see* Fe-01724
- π-Cyclopentadienyl[(ferrocenylmethyl)-π-cyclopentadienyl]ruthenium, *see* Fe-01725
- π-Cyclopentadienyl-σ-ferrocenonyltungsten tricarbonyl, *see* Fe-01541
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,4a,9a-η)-9*H*-fluoren-9-yl]iron, Fe-01533
- (η⁵-2,4-Cyclopentadien-1-yl)(η⁶-fluorobenzene)iron(1+), Fe-00705
- (Cyclopentadienyl)(fluorocyclopentadienyl)iron, *see* Fe-00548
- (η⁵-2,4-Cyclopentadien-1-yl)[(2,3,4,5,6-η)-heptahydro-2,5-dicarbahexaborato(1-)-*H*^u]iron, Fe-00227
- (η⁵-2,4-Cyclopentadien-1-yl)[(2,3,4,5,6-η)-heptahydro-4,5-dicarbahexaborato(1-)-*H*^u]iron, *see* Fe-00228
- (η⁵-2,4-Cyclopentadien-1-yl)[(2,3,4,5,6-η)-hexahydro-2,3-dicarbahexaborato(2-)]hydroiron, Fe-00228
- (η⁵-2,4-Cyclopentadien-1-yl)[(2,3,4,5,6-η)-hexahydro-2,3-dicarbahexaborato(2-)]iron, Fe-00226
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6-η)-1,2,3,4,5,6-hexamethylbenzene]iron, Fe-01502
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6-η)-hexamethylbenzene]iron(1+), Fe-01503
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-1,2,3,4,5,6-hexamethyl-2,4-cyclohexadien-1-yl]iron, Fe-01504
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-5-(hydroxymethyl)-2,4-cyclohexadien-1-yl]iron, Fe-00940
- (Cyclopentadienyl)(4-hydroxyphenylcyclopentadienyl)iron, *see* Fe-01401
- Cyclopentadienyl[(1-hydroxy-2-propynyl)cyclopentadienyl]iron, *see* Fe-01050
- (2,4-Cyclopentadien-1-ylidenemethyl)ferrocene, Fe-01398
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-6-imino-2,4-cyclohexadien-1-yl]iron, Fe-00735
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,3a,7a-η)-1*H*-inden-1-yl]iron, Fe-01175
- (η⁵-2,4-Cyclopentadien-1-yl)iodobis(isocyanobenzene)iron, Fe-01610
- (η⁵-2,4-Cyclopentadien-1-yl)iodobis(isocyanomethane)iron, Fe-00444
- (η⁵-Cyclopentadienyl)iodobis(methyl isocyanide)iron, *see* Fe-00444
- π-Cyclopentadienyliodobis(phenyl isocyanide)iron, *see* Fe-01610
- (η⁵-2,4-Cyclopentadien-1-yl)iodobis(trimethylphosphine)iron, Fe-00791
- π-Cyclopentadienyl(2-iodoethyl-π-cyclopentadienyl)iron, *see* Fe-00926
- π-Cyclopentadienyliodonitrosyl(phosphorous acid)iron(1+) triphenyl ester, *see* Fe-01796
- (η⁵-2,4-Cyclopentadien-1-yl)-iodonitrosyl(triphenylphosphine)iron, Fe-01795
- (η⁵-2,4-Cyclopentadien-1-yl)iodonitrosyl(triphenyl phosphite-*P*)iron(1+), Fe-01796
- π-Cyclopentadienyliron-π-(3)-1,2-B₉C₂H₁₁, *see* Fe-00232
- 4,6-π-Cyclopentadienyliron-C₂B₆H₈, *see* Fe-00230
- 1,2,3-π-Cyclopentadienyliron-C₂B₈H₁₀, *see* Fe-00233
- Cyclopentadienyliron dicarbonyl acetylide, *see* Fe-00352
- Cyclopentadienyliron dicarbonyl dimethylthiocarbamate, *see* Fe-00601
- Cyclopentadienyliron dicarbonyl pentacarbonylmanganese, *see* Fe-00810
- Cyclopentadienyliron dicarbonyl tetracarbonylcobalt, *see* Fe-00657
- π-Cyclopentadienyliron-2,4-C₂B₄H₆ hydride, *see* Fe-00227
- η⁵-Cyclopentadienyl-η²-isobutenedicarbonyliron(1+), *see* Fe-00769
- Cyclopentadienyl[(mercaptomethyl)cyclopentadienyl]iron, *see* Fe-00760
- Cyclopentadienyl(mesitylene)iron, *see* Fe-01235
- (η⁵-2,4-Cyclopentadien-1-yl)(η⁶-methoxybenzene)iron(1+), *in* Fe-00741
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-5-(methoxycarbonyl)-2,4-cyclohexadien-1-yl]iron, Fe-01075
- π-Cyclopentadienyl-π-(2-methylallyl)carbonyliron, *see* Fe-00619
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6-η)-methylbenzene]iron(1+), Fe-00925
- (η⁵-2,4-Cyclopentadien-1-yl)[1,2,3,4,5,6-η)-methyl benzoate]iron(1+) tetrafluoroborate, *in* Fe-00883
- (η⁵-2,4-Cyclopentadien-1-yl)methylbis(trimethylphosphine)iron, Fe-00981
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6-η)-1-methylboratabenzene]iron, Fe-00766
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-6-methyl-2,4-cyclohexadien-1-yl]iron, Fe-00934
- (π-Cyclopentadienyl)(π-methylcyclopentadienyl)iron, *see* Fe-00749
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-6-methylene-2,4-cyclohexadien-1-yl]iron, Fe-00890
- (2,4-Cyclopentadien-1-ylmethyl)ferrocene, Fe-01419
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-2-methyl-1*H*-pyrrolyl]iron, *see* Fe-00599
- π-Cyclopentadienyl-π-(2-methylpyrrolyl)iron, *see* Fe-00599
- (Cyclopentadienyl)(methylthiocyclopentadienyl)iron, *see* Fe-00761
- (π-Cyclopentadienyl)(π-methyl vinyl ether)dicarbonyliron(1+), *see* Fe-00608
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,4a,8a-η)-naphthalene]iron(1+), Fe-01322
- (η⁵-2,4-Cyclopentadien-1-yl)(η⁶-nitrobenzene)iron(1+), Fe-00706
- (Cyclopentadienyl)(4-nitrophenylcyclopentadienyl)iron, *see* Fe-01395
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,3,6,8-η)-octahydro-1,8-dicarbaoctaborato(2-)]iron, Fe-00229
- (η⁵-2,4-Cyclopentadien-1-yl)[(3,5,6,7,8-η)-octahydro-5,6-dicarbaoctaborato(2-)]iron, Fe-00230
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,3a,8a-η)-6-oxoazulenyl]iron, Fe-01305
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-6-oxo-2,4-cyclohexadien-1-yl]iron, Fe-00707
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,3a,8a-η)-5-oxo-6-hydroxyazulenyl]iron, Fe-01319
- π-Cyclopentadienyl-(1,2,3,4,5-pentachloro-π-cyclopentadienyl)iron, *see* Fe-00486
- (η⁵-2,4-Cyclopentadien-1-yl)[η⁵-pentadecahydrodecaborato(2-)]iron, Fe-00090
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-1,2,3,4,5-pentamethyl-6-methylene-2,4-cyclohexadien-1-yl]iron, Fe-01500
- σ-Cyclopentadienyl-π-pentaphenylcyclopentadienyldicarbonyliron, *see* Fe-02160
- (η⁵-Cyclopentadienyl)(η⁵-pentaphenylcyclopentadienyl)iron, *see* Fe-02152
- (η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,4a,10a-η)-phenanthrene]iron(1+), Fe-01609
- (η⁵-2,4-Cyclopentadien-1-yl)(η⁶-phenol)iron(1+), Fe-00741

- Cyclopentadienyl(phenoxy)cyclopentadienyl)iron, *see* Fe-01402
 π -Cyclopentadienyl(phenylazo- π -cyclopentadienyl)iron, *see* Fe-01400
 (Cyclopentadienyl)(phenylbenzene)iron(1+), *see* Fe-01490
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-1-phenylboratabenzene]iron, Fe-01412
 (η^5 -Cyclopentadienyl)(η^1 -phenyl)carbonyl(triphenylarsine)iron, *see* Fe-02001
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-1-phenyl-2,4-cyclohexadien-1-yl]iron, Fe-01494
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-6-phenyl-2,4-cyclohexadien-1-yl]iron, Fe-01493
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-2-phenyl-1*H*-phosphol-1-yl]iron, Fe-01325
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-3-phenyl-1*H*-phosphol-1-yl]iron, Fe-01326
 Cyclopentadienyl[(phenylthio)cyclopentadienyl]iron, *see* Fe-01406
 Cyclopentadienyl[(3-phenyl-1-triazeno)cyclopentadienyl]iron, *see* Fe-01416
 (η^5 -2,4-Cyclopentadien-1-yl)[(η^6 -phenyl)-triphenylborato(1-)]iron, Fe-01990
 (η^5 -2,4-Cyclopentadien-1-yl)[1-(η^5 -1*H*-phosphol-2-yl)-ethanonato]iron, *see* Fe-00742
 (η^5 -2,4-Cyclopentadien-1-yl)[1-(η^5 -1*H*-phosphol-3-yl)-ethanonato]iron, *see* Fe-00743
 (η^5 -2,4-Cyclopentadien-1-yl)(η^5 -1*H*-phosphol-1-yl)iron, Fe-00424
 Cyclopentadienyl(propiolylcyclopentadienyl)iron, *see* Fe-01015
 (Cyclopentadienyl)(propylcyclopentadienyl)iron, *see* Fe-01095
 (η^5 -Cyclopentadienyl)(η^2 -propylene)dicarbonyliron(1+), *see* Fe-00606
 (η^5 -2,4-Cyclopentadien-1-yl)(η^5 -1*H*-pyrrol-1-yl)iron, Fe-00416
 (Cyclopentadienyl)(tetrachlorocyclopentadienyl)iron, *see* Fe-00491
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3*a*,7*a*- η)-4,5,6,7-tetrahydro-4-hydroxy-1*H*-inden-1-yl]iron, Fe-01225
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3*a*,7*a*- η)-4,5,6,7-tetrahydro-1*H*-inden-1-yl]iron, Fe-01217
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3*a*,7*a*- η)-4,5,6,7-tetrahydro-4-oxo-1*H*-inden-1-yl]iron, Fe-01198
 (η^5 -2,4-Cyclopentadien-1-yl)[(4*a*,5,6,7,7*a*- η)-1,2,3,4-tetrahydro-4*aH*-2-pyridin-4*a*-yl]iron, Fe-01081
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-tetramethylthiophene]iron(1+), Fe-01110
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-2,3,4,5-tetraphenyl-1*H*-arsol-1-yl]iron, Fe-02075
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-2,3,4,5-tetraphenyl-1*H*-phosphol-1-yl]iron, Fe-02076
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-6-thioxo-2,4-cyclohexadien-1-yl]iron, Fe-00725
 π -Cyclopentadienyl(toluene)iron(1+), *see* Fe-00925
 Cyclopentadienyltricarbonyliron(1+), *see* Fe-00266
 Cyclopentadienyl[(2,2,2-trichloro-1-hydroxyethyl)-cyclopentadienyl]iron, *see* Fe-00878
 (η^5 -Cyclopentadienyl)(η^5 -1,2,3-triethylcyclopentadienyl)iron, *see* Fe-01448
 (η^5 -Cyclopentadienyl)(η^5 -1,2,4-triethylcyclopentadienyl)iron, *see* Fe-01449
 (η^5 -2,4-Cyclopentadien-1-yl)[(4*a*,5,6,7,7*a*- η)-1,3,4-trihydro-4-oxocyclopenta[*c*]thiopyran-4*a*-yl]iron, Fe-01053
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-1,3,5-trimethylbenzene]iron(1+), Fe-01235
 (η^5 -2,4-Cyclopentadien-1-yl)tris(isocyanobenzene)iron(1+), Fe-01920
 (η^5 -2,4-Cyclopentadien-1-yl)tris(isocyanomethane)iron(1+), Fe-00776
 π -Cyclopentadienyltris(methyl isocyanide)iron(1+), *see* Fe-00776
 π -Cyclopentadienyltris(methyl isonitrile)iron(1+), *see* Fe-00776
 π -Cyclopentadienyltris(phenyl isocyanide)iron(1+), *see* Fe-01920
 π -Cyclopentadienyltris(phosphorous acid)iron(1+) nonaphenyl ester, *see* Fe-02199
 (η^5 -2,4-Cyclopentadien-1-yl)tris(trimethylphosphine)iron(1+), Fe-01282
 (η^5 -2,4-Cyclopentadien-1-yl)tris(trimethylphosphine)iron(2+), Fe-01283
 (η^5 -2,4-Cyclopentadien-1-yl)tris(trimethyl phosphite-*P*)-iron(1+), Fe-01281
 (η^5 -2,4-Cyclopentadien-1-yl)tris(triphenyl phosphite-*P*)iron(1+), Fe-02199
 Cyclopentadienyl(triptylcyclopentadienyl)iron, *see* Fe-01988
 (η^5 -2,4-Cyclopentadien-1-yl)[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]ferrate(1-), Fe-00234
 (η^5 -2,4-Cyclopentadien-1-yl)[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]iron, Fe-00232
 (η^5 -2,4-Cyclopentadien-1-yl)[(7,8,9,10,11- η)-undecahydro-7,9-dicarbaundecaborato(2-)]iron, Fe-00235
 1,1'-(1,3-Cyclopentadienyl)ferrocene, Fe-01340
 (1-Cyclopenten-1-yl)ferrocene, Fe-01341
 (Cyclopentylene-1'',3'')-1,1'-ferrocene, *see* Fe-01340
 1,1'',1'''-(1-Cyclopropene-1,2,3-triyl)trisferrocene, *see* Fe-02080
 Cymantrenylferrocene, *see* Fe-01528
 Decacarbonyl[μ -[(dimethylamino)methylidyne]]- μ -hydrotriiron, Fe-01005
 Decacarbonyl[μ_3 -(ethanaminato)]triiron, *see* Fe-00813
 Decacarbonyl- μ -hydro[μ -(methoxymethylidyne)]triiron, Fe-00809
 Decacarbonyl- μ_3 -imidotriiron, *see* Fe-00478
 Decacarbonyl(tetracarbonyliron)dimanganese, *see* Fe-01130
 Decacarbonyl(tetracarbonyliron)dirhenium, *see* Fe-01131
 Decacarboxyferrocene, *see* Fe-01644
 Decachloroferrocene, Fe-00471
 Decaethylferrocene, Fe-02023
 (4,5,6,7,8,4',5',6',7',8'-Decahapto-1,1'-dihydro-1,1'-bipentalenyl)iron, *see* Fe-01383
 Decaiodoferrocene, Fe-00477
 Decakis(chloromercurio)ferrocene, Fe-00472
 Decakis(methoxycarbonyl)ferrocene, *in* Fe-01644
 Decamethylferrocene, Fe-01693
 1,2-Dehydro[3]ferrocenophane, *see* Fe-01044
 Dehydro-1,1'-trimethyleneferrocene, *see* Fe-01044
 Desoxyferrocene, *see* Fe-01766
 1,1'-Diacetylferrocene, Fe-01203
 1,2-Diacetylferrocene, Fe-01204
 1,3-Diacetylferrocene, Fe-01205
 Di- μ -acetylhexacarbonyldiiron, *see* Fe-00498
 2,2'-Diacetyl-3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene, *see* Fe-01436
 Di- π -allyldicarbonyliron, *see* Fe-00320
 Di- π -allylhexacarbonyldiiron, *see* Fe-00872
 Di- μ -amidohexacarbonyldiiron, Fe-00116
 Di- μ -amidotetranitrosyldiiron, Fe-02218
 (Diaminocarbene)tetracarbonyliron, *see* Fe-00077
 1,1'-Diaminoferrrocene, Fe-00616
 Di- μ_3 -arsenidononacarbonyltriiron, Fe-00329
 1,1'-Diazidoferrrocene, Fe-00520
 [(Diazoamino)dicyclopentadienylene]biscyclopentadienyliron, *see* Fe-01677
 Diazoaminoferrrocene, *see* Fe-01677
 Dibenzoferrrocene, *see* Fe-01532
 (1,2-Dibenzoylethylene)iron tetracarbonyl, *see* Fe-01648
 (Dibenzoylethylene)iron tricarbonyl, *see* Fe-01597
 1,1'-Dibenzoylferrocene, Fe-01816
 Di- μ -benzoylhexacarbonyldiiron, *see* Fe-01647
 Di(benzylcyclopentadienyl)diiron tetracarbonyl, *see* Fe-01962
 1,1'-Dibenzylferrocene, Fe-01844
 1,3-Dibenzylferrocene, Fe-01845
 Dibenzyltetracarbonyliron, Fe-01542
 Di- μ -[bis(cyclopentadienyl)stanny]bis(tetracarbonyliron), *see* Fe-01959
 (Dibromobismuthino)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00170
 Dibromobis(triphenylphosphine)iron, Fe-02109
 Dibromo(carbon)dodecacarbonylpentairon(2-), *see* Fe-00986
 (η^5 -1,2-Dibromocyclopentadienyl)(η^5 -cyclopentadienyl)iron, *see* Fe-00507
 Dibromodicarbonylbis(trimethylphosphine)iron, Fe-00323

- Dibromodicarbonylbis(triphenylphosphine)iron, Fe-02132
 Dibromo[dicarbonyl(η^5 -cyclopentadienyl)iron]arsine, *see* Fe-00168
 Dibromo[dicarbonyl(η^5 -cyclopentadienyl)iron]bismuth, *see* Fe-00170
 (1,2-Dibromoethyl)ferrocene, Fe-00887
 (μ_3 -Dibromoferrio)(μ_5 -carbon)dodecacarbonyltetraferate(2-), Fe-00986
 1,1'-Dibromoferrocene, Fe-00506
 1,2-Dibromoferrocene, Fe-00507
 1,2-Dibromo-1-ferrocenylethane, *see* Fe-00887
 Di- μ -bromohexacarbonyldiiron, Fe-00091
 Dibromotetracarbonyliron, Fe-00029
 Di- μ -bromotetranitrosyldiiron, Fe-00002
 Dibromotricarbonyl(triphenyl phosphite-*P*)iron, Fe-01702
 1,1'-Di-*tert*-butylferrocene, Fe-01582
 1,3-Di-*tert*-butylferrocene, Fe-01583
 Di-*tert*-butyl isocyanide iron tricarbonyl, *see* Fe-01113
 [(5,6- η)-3,8-Di-*tert*-butyl-2,2,9,9-tetramethyl-3,4,5,6,7-decapentaene]tetracarbonyliron, Fe-01942
 Dicarbacyclopentaboranyliron tricarbonyl, *see* Fe-00085
 (1,2-Dicarbadoecaboran(12)-1-yl)ferrocene, Fe-00975
 (1,2-Dicarbadoecaboran(12)-3-yl)ferrocene, Fe-00976
 Dicarbonyl- η^1 -allyl- η^5 -cyclopentadienyliron, *see* Fe-00568
 Dicarbonyl(benzocyclobutadiene)- π -cyclopentadienyliron(1+), *see* Fe-01302
 Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(dimethylarsino)]diiron, Fe-01443
 Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(dimethylgermylene)]diiron, Fe-01450
 Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(dimethylphosphino)]diiron, Fe-01451
 Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(diphenylphosphino)]diiron, Fe-02114
 Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(diphenylphosphino)]diiron(1+), Fe-02115
 Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)-bis(isocyanomethane)diiron, Fe-01422
 Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron, Fe-01231
 Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron(1+), Fe-01232
 Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron(2+), Fe-01233
 Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(phenylcarbonimidoyl)]diiron, Fe-01921
 Dicarbonylbis(η^5 -cyclopentadienyl)bis(μ -phenylthiolato)diiron(2+), *see* Fe-01832
 Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)di- μ -nitrosyldiiron, *in* Fe-00121
 Di- μ -carbonylbis[(1,2,3,4,5,6- η)-1-methylboratabenzene]diiron, Fe-01417
 ▸ Dicarbonylbis(η^3 -2-propenyl)iron, Fe-00320
 Di- μ -carbonylcarbonyl- π -indenyl(tricarbonylcobaltio)iron, *see* Fe-01288
 Di- μ -carbonylcarbonyl[(1,2,3,3a,7a- η)-1*H*-inden-1-yl]-(tricarbonylcobalt)iron, Fe-01288
 Di- μ -carbonyl(carbonyl- π -norbornadienecobaltio)carbonyl- π -cyclopentadienyliron, *see* Fe-01394
 Dicarbonyl(2-carboxyethenyl)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00531
 Dicarbonyl(carboxymethyl)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00396
 Dicarbonyl(carboxymethyl)- π -cyclopentadienyliron menthyl ester, Fe-01639
 Dicarbonyl(η^3 -1-carboxy-2-propenyl)nitrosyliron, *see* Fe-00122
 Dicarbonyl(1-chloro- π -allyl)nitrosyliron, *see* Fe-00075
 Dicarbonyl(2-chloro- π -allyl)nitrosyliron, *see* Fe-00076
 Dicarbonyl(4-chloro-2-cyclobuten-1-yl)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00687
 Dicarbonylchloro[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iron, Fe-00414
 Dicarbonylchloro- π -cyclopentadienyliron, *see* Fe-00182
 Dicarbonylchloro(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00182
 Dicarbonylchloro(η^5 -1-hydroxy-2,4-cyclopentadien-1-yl)iron, Fe-00183
 Dicarbonyl(chloromercurio)- π -cyclopentadienyliron, *see* Fe-00181
 Dicarbonyl(chloromercury)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00181
 Dicarbonylchloro(η^5 -1-methoxy-2,4-cyclopentadien-1-yl)iron, *in* Fe-00183
 Dicarbonyl(chloromethyl)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00283
 Dicarbonylchloro[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]iron, Fe-00284
 Dicarbonyl(η^3 -1-chloro-2-propenyl)nitrosyliron, Fe-00075
 Dicarbonyl(η^3 -2-chloro-2-propenyl)nitrosyliron, Fe-00076
 Dicarbonyl(2-chloro-2-propenyl)-nitrosyl(triphenylphosphine)iron, Fe-01790
 Dicarbonylchloro[(1,2,3,4,5- η)-1,2,3,4-tetramethyl-5-(1-methylethenyl)-2,4-cyclopentadien-1-yl]iron, Fe-01234
 Dicarbonyl-5-cholesten-3-yl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-02097
 Dicarbonyl(cyanato-*N*)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00262
 Dicarbonyl(cyano-*C*)[(1,2,3,4- η)-1,3-cycloheptadiene]ferate(1-), Fe-00565
 Dicarbonyl(cyano-*C*)[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iron, Fe-00551
 Dicarbonyl(cyano-*C*)[(1,2,3,4- η)-1,3-cyclohexadiene]ferate(1-), Fe-00379
 Dicarbonyl(cyano-*C*)[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]iron, Fe-00368
 Dicarbonylcyanocyclohexadienylumiron, *see* Fe-00368
 Dicarbonyl(cyano-*C*)[(1,2,3,4,5- η)-2,4-cyclooctadien-1-yl]iron, Fe-00738
 Dicarbonyl(cyano-*C*)[(1,2,3,4- η)-1,3,5,7-cyclooctatetraene]ferate(1-), Fe-00671
 Dicarbonyl(cyano-*C*)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00258
 Dicarbonyl(cyanomethyl)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00369
 Dicarbonyl(cyanomethyl)nitrosyl(triphenylphosphine)iron, Fe-01742
 Dicarbonyl(cyano-*C*)nitrosylferrate(2-), Fe-00018
 Dicarbonyl[(1,2- η)-1,3-cyclobutadiene](η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00698
 Dicarbonyl(η^4 -1,3-cyclobutadiene)nitrosyliron(1+), Fe-00112
 Dicarbonyl[1,1',1'',1'''-(η^4 -1,3-cyclobutadiene-1,2,3,4-tetrayl)tetrakis(benzene)]nitrosyliron(1+), *see* Fe-01999
 Dicarbonyl[1,1',1'',1'''-(1,2,3,4- η)-1,3-cyclobutadiene-1,2,3,4-tetrayl]tetrakis(benzene)](triphenylphosphine)iron, *see* Fe-02180
 Dicarbonyl(η^4 -1,3-cyclobutadiene)(trimethyl phosphite-*P*)iron, Fe-00454
 Dicarbonyl[(1,2,3,4- η)-1,3-cycloheptadiene]-(triphenylphosphine)iron, Fe-01953
 Dicarbonyl[(2,3,4,5- η)-2,4-cycloheptadien-1-one]-(triphenylphosphine)iron, Fe-01949
 Dicarbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iodoiron, Fe-00415
 Dicarbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-(triphenylphosphine)iron(1+), Fe-01951
 Dicarbonyl[(1,2,3,4- η)-1,3,5-cycloheptatriene(triphenylphosphine)iron, Fe-01948
 Dicarbonyl[(2,3,4,5- η)-2,4,6-cycloheptatrien-1-one]-(triphenylphosphine)iron, Fe-01947
 Dicarbonyl-1,3,5-cycloheptatrien-1-yl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01178
 Dicarbonyl-2,4,6-cycloheptatrien-1-ylidene(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-01173
 Dicarbonyl[(1,3,4,5- η)-4-cycloheptene-1,3-diyl]-(triphenylphosphine)iron, Fe-01954
 Dicarbonyl(3,4,5- η ,1- σ -cycloheptenyl)(triphenylphosphine)iron, *see* Fe-01954
 Dicarbonyl[(1,2,3,4- η)-1,3-cyclohexadiene]-(triphenylphosphine)iron, Fe-01929
 Dicarbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]iodoiron, Fe-00285
 Dicarbonylcyclohexadienylumiodoiron, *see* Fe-00285

- Dicarbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]-
(triphenylphosphine)iron(1+), Fe-01926
- Dicarbonyl[(1,2- η)-cyclohexene](η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-01085
- Dicarbonyl[(1,2,3- η)-2-cyclohexen-1-yl]nitrosyliron, Fe-00318
- Dicarbonyl[1-[(1,2,3- η)-2-cyclohexen-1-yl]-4-yl]ethanone]nitrosyliron, *see* Fe-00603
- Dicarbonyl[(1,2,3,4,5- η)-2,4-cyclooctadien-1-yl]iodoiron, Fe-00597
- Dicarbonyl[(1,2,3,4- η)-1,3,5,7-cyclooctatetraene]-
(triphenylphosphine)iron, Fe-01964
- Dicarbonyl-1,3,5,7-cyclooctatetraen-1-yl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01307
- Dicarbonyl[(1,2,3,4- η)-1,3-cyclopentadiene]-
(triphenylphosphine)iron, Fe-01888
- Dicarbonyl[(2,3,4,5- η)-2,4-cyclopentadien-1-one]-
(triphenylphosphine)iron, Fe-01864
- Dicarbonyl- π -cyclopentadienylbis(trifluoromethyl)phosphinoiron, *see* Fe-00347
- Dicarbonyl- π -cyclopentadienyl-*tert*-butyliron, *see* Fe-00777
- Dicarbonyl- π -cyclopentadienyl-9-carbazolyliron, *see* Fe-01598
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-2,4-cyclopentadien-1-yliron, Fe-00848
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(dibromoarsino)iron, Fe-00168
- Dicarbonyl- π -cyclopentadienyl(dibromobismuthino)iron, *see* Fe-00170
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(dibromoindium)iron, Fe-00177
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(dibromostibino)iron, Fe-00178
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)dichloroboraneiron, Fe-00169
- Dicarbonyl- π -cyclopentadienyl(dichloroboryl)iron, *see* Fe-00169
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,2-dicyanoethenyl)iron, Fe-00661
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(*O,O*-diethylphosphorothioito-*P*)iron, Fe-00782
- Dicarbonyl(η^5 -cyclopentadienyl)(*O,O*-diethylthiophosphito)iron, *see* Fe-00782
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-
(difluorophosphinothioyl-*P*)iron, Fe-00189
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,2'-dimethoxyethyl)iron, Fe-00779
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(dimethylarsino)iron, Fe-00441
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,5-dimethyl-1-*H*-arsol-1-yl)iron, Fe-01059
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(dimethylbismuthino)iron, Fe-00442
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-
(dimethylcarbamodithioato-*S*)iron, Fe-00601
- Dicarbonyl- π -cyclopentadienyl(dimethyldithiocarbamato)iron, *see* Fe-00601
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(1,1-dimethylethyl)iron, *see* Fe-00777
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-
(dimethylphosphinothioito-*P*)iron, Fe-00447
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(dimethylstibino)iron, Fe-00448
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(dimethylsulfonium- η -methylide)iron(1+), Fe-00628
- Dicarbonyl- π -cyclopentadienyl(diphenylamino)iron, Fe-01613
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)diphenylboraneiron, Fe-01606
- Dicarbonyl- π -cyclopentadienyl(diphenylboryl)iron, *see* Fe-01606
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-
(diphenylphosphinito-*P*)iron, Fe-01620
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(diphenylphosphino)iron, Fe-01618
- Dicarbonyl(η^5 -cyclopentadienyl)-
(diphenylphosphinoselenoato)iron, *see* Fe-01619
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-
(diphenylphosphinoselenoito-*P*)iron, Fe-01619
- Dicarbonyl- π -cyclopentadienyl(diphenylphosphinyl)iron, *see* Fe-01620
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(dithiocarboxylato)fer-
rate(1-), Fe-00265
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(ethanethiolato)iron, Fe-00428
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^2 -ethene)iron(1+), Fe-00420
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ethenyliron, Fe-00385
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(3-ethoxy-3-oxo-1-propenyl)iron, *in* Fe-00531
- Dicarbonyl- π -cyclopentadienyl(ethylene)iron(1+), *see* Fe-00420
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ethyliron, Fe-00427
- Dicarbonyl- π -cyclopentadienyl(ethylthio)iron, *see* Fe-00428
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(ethynyl)iron, Fe-00352
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-), Fe-00194
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(ferrocenylcarbonyl)iron, Fe-01544
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrocenyliron, Fe-01487
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-
(ferrocenylmethylidyne)tungsten, Fe-01539
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(2,3- η)-heptahydro-
4,5-dicarbahehexaborato(1-)]iron, Fe-00450
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)hydroiron, Fe-00200
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(hydroxymethyl)iron, Fe-00300
- Dicarbonyl[(η^5 -2,4-cyclopentadien-1-ylidene)(3-oxo-1,3-propanediyl)]iron, Fe-00527
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-1-*H*-inden-1-yliron, Fe-01386
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^1 -1-*H*-indol-1-yl)iron, Fe-01301
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iodoiron, Fe-00190
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1-), *see* Fe-00194
- [Dicarbonyl(η^5 -cyclopentadienyl)iron]dibromostibine, *see* Fe-00178
- Dicarbonyl(η^5 -cyclopentadienyl)irondichloroborane, *see* Fe-00169
- [Dicarbonyl(η^5 -cyclopentadienyl)iron]dimethylarsine, *see* Fe-00441
- (Dicarbonyl- π -cyclopentadienyliron)dimethylphosphine sulfide, *see* Fe-00447
- Dicarbonyl(η^5 -cyclopentadienyl)irondimethylstibine, *see* Fe-00448
- Dicarbonyl(η^5 -cyclopentadienyl)irondiphenylborane, *see* Fe-01606
- (Dicarbonyl- π -cyclopentadienyliron)diphenylphosphine selenide, *see* Fe-01619
- Dicarbonyl- π -cyclopentadienyliron thiophosphoryl difluoride, *see* Fe-00189
- (Dicarbonyl- π -cyclopentadienyliron)tribromogermane, *see* Fe-00179
- (Dicarbonyl- π -cyclopentadienyliron)tribromostannane, *see* Fe-00180
- (Dicarbonyl- π -cyclopentadienyliron)trichlorogermane, *see* Fe-00186
- (Dicarbonyl- π -cyclopentadienyliron)trichlorosilane, *see* Fe-00187
- (Dicarbonyl- π -cyclopentadienyliron)trichlorostannane, *see* Fe-00188
- [Dicarbonyl(η^5 -cyclopentadienyl)iron]trimethylgermane, *see* Fe-00630
- [Dicarbonyl(η^5 -cyclopentadienyl)iron]trimethylstannane, *see* Fe-00635
- Dicarbonyl- π -cyclopentadienyl(isobutyl)iron, *see* Fe-00778
- Dicarbonyl- π -cyclopentadienyl(isocyanato)iron, *see* Fe-00262
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(isocyanomethane)iron-
(1+), Fe-00380

- Dicarbonyl(η^5 -2,4-cyclopentadienyl)isopropylideneiron(1+), *see* Fe-00605
- Dicarbonyl- π -cyclopentadienylisopropyliron, Fe-00620
- Dicarbonyl- π -cyclopentadienyl(isothiocyanato)iron, *see* Fe-00259
- Dicarbonyl- η^5 -cyclopentadienyl(menthyloxymethyl)iron, Fe-01588
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(methanesulfonato-*O*)iron, Fe-00308
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(methanethiolato)iron, Fe-00299
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(methoxycarbonyl)iron, Fe-00397
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2- η)-methoxyethene]iron(1+), Fe-00608
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(1-methoxyethylidene)iron(1+), Fe-00609
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(methoxymethylene)iron(1+), Fe-00421
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(methoxymethyl)iron, *in* Fe-00300
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)methoxymethyliron, Fe-00429
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(3-methoxy-3-oxo-1-propenyl)iron, *in* Fe-00531
- Dicarbonyl- π -cyclopentadienyl(methoxythiocarbonyl)iron, *see* Fe-00394
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methoxythioxomethyl)iron, Fe-00394
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)methyleneiron(1+), Fe-00289
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(1-methylethylidene)iron(1+), Fe-00605
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(1-methylethyl)iron, *see* Fe-00620
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)methyliron, Fe-00298
- Dicarbonyl- π -cyclopentadienyl(methyl isocyanide)iron(1+), *see* Fe-00380
- Dicarbonyl- π -cyclopentadienyl(methyl isonitrile)iron(1+), *see* Fe-00380
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[[5-methyl-2-(1-methylethyl)cyclohexyl]oxy]methyliron, *see* Fe-01588
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[2-[[5-methyl-2-(1-methylethyl)cyclohexyl]oxy]-2-oxoethyl]iron, *see* Fe-01639
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2- η)-2-methyl-1-propene]iron(1+), Fe-00769
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2-methylpropyl)iron, Fe-00778
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(methylselenonyl)iron, Fe-00311
- Dicarbonyl- π -cyclopentadienyl(*O*-methylsulfonyl)iron, *see* Fe-00308
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(methylsulfonyl)iron, Fe-00309
- Dicarbonyl- π -cyclopentadienyl(methylthio)iron, *see* Fe-00299
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(methylthio)-thiocarbonyl]iron, *see* Fe-00386
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(methylthio)-thioxomethyl]iron, Fe-00386
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methyltrithiocarbonato-*S*)iron, Fe-00387
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)pentacarbonylmanganioiron, *see* Fe-00810
- Dicarbonyl[1-[(2,3,4,5- η)-2,4-cyclopentadien-1-yl]-(2,3,4,5,6-pentafluoro)benzene](isocyanomethane)iron, *see* Fe-01290
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(pentafluorobenzenethiolato)iron, Fe-01003
- Dicarbonyl[1-[(2,3,4,5- η)-2,4-cyclopentadien-1-yl]-(2,3,4,5,6-pentafluoro)benzene](triphenylphosphine)iron, *see* Fe-02025
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(pentafluorophenyl)iron, Fe-01002
- Dicarbonyl- π -cyclopentadienyl(pentafluorophenylthio)iron, *see* Fe-01003
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,2,3,3,3-pentafluoropropanoyl)iron, Fe-00488
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(1,2,3,3,3-pentafluoro-1-propenyl)iron, Fe-00487
- Dicarbonyl[η^1 -(2,4-cyclopentadien-1-yl)][(1,2,3,4,5- η)-1,2,3,4,5-pentaphenyl-2,4-cyclopentadien-1-yl]iron, Fe-02160
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(*N*-phenylbenzenaminato)iron, *see* Fe-01613
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(phenylethynyl)iron, Fe-01297
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)phenyliron, Fe-01017
- Dicarbonyl- π -cyclopentadienyl(phenylmercurio)iron, *see* Fe-01013
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(phenylmercury)iron, Fe-01013
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(phenylmethylene)iron(1+), *see* Fe-01172
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(phenylmethyl)iron, *see* Fe-01177
- Dicarbonyl- π -cyclopentadienyl(phenylsulfonyl)iron, *see* Fe-01028
- Dicarbonyl- π -cyclopentadienyl(phenylthio)iron, *see* Fe-01019
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(phenyltrithiocarbonato-*S*)iron, Fe-01150
- Dicarbonyl- π -cyclopentadienyl(phosphorous acid)iron(1+)-trimethyl ester, *see* Fe-00636
- Dicarbonyl- π -cyclopentadienyl(phosphorous acid)iron(1+)-triphenyl ester, *see* Fe-01885
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-1,2-propadienyliron, Fe-00522
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2- η)-1-propene]iron(1+), Fe-00606
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-2-propenyliron, Fe-00568
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)propyliron, Fe-00621
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-1-propynyliron, Fe-00523
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(pyridine)iron(1+), Fe-00846
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^1 -1-pyrrolyl)iron, Fe-00692
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(selenocyanato-*Se*)iron, Fe-00261
- Dicarbonyl- π -cyclopentadienyl(tetracarbonylcobaltio)iron, *see* Fe-00657
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(tetracarbonylcobalt)iron, Fe-00657
- Dicarbonyl- π -cyclopentadienyl[tetrafluoro-1-(trifluoromethyl)ethyl]iron, Fe-00489
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(tetrahydrofuran)iron(1+), Fe-00770
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,3,4,5-tetraphenyl-1*H*-arsol-1-yl)iron, Fe-02101
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,3,4,5-tetraphenyl-1*H*-phosphol-1-yl)iron, Fe-02102
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,3,4,5-tetraphenyl-1*H*-stibol-1-yl)iron, Fe-02103
- Dicarbonyl- π -cyclopentadienyl-3-thienyliron, *see* Fe-00852
- Dicarbonyl- π -cyclopentadienyl(thiocarbonyl)iron(1+), *see* Fe-00264
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(thiocyanato-*N*)iron, Fe-00259
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(thiocyanato-*S*)iron, Fe-00260
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(3-thiophenylmethyl)iron, Fe-00852
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(tribromogermyl)iron, Fe-00179
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(tribromostannyl)iron, Fe-00180
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trichlorogermyl)iron, Fe-00186
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trichlorosilyl)iron, Fe-00187

- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trichlorostannyl)iron, Fe-00188
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trifluoroacetyl)iron, Fe-00346
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trifluoromethyl)iron, Fe-00257
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trimethylgermyl)iron, Fe-00630
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trimethylphosphine)iron-(1+), Fe-00632
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trimethyl phosphite-*P*)iron(1+), Fe-00636
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trimethylplumbyl)iron, Fe-00633
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trimethylsilyl)iron, Fe-00634
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trimethylstannyl)iron, Fe-00635
- Dicarbonyl- π -cyclopentadienyl(triphenylantimony)iron(1+), *see* Fe-01882
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenylarsine)iron-(1+), Fe-01866
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)triphenylgermyliron, Fe-01868
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenylphosphine)iron-(1+), Fe-01880
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenyl phosphite-*P*)iron(1+), Fe-01885
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenylplumbyl)iron, Fe-01881
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenylsilyl)iron, Fe-01883
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenylstannyl)iron, Fe-01884
- Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenylstibine)iron-(1+), Fe-01882
- Dicarbonyl- π -cyclopentadienylvinyliron, *see* Fe-00385
- Dicarbonyl[(1,2,3- η)-2-cyclopenten-1-yl]nitrosyliron, Fe-00217
- Dicarbonyl[4-[[[(1,2,3- η)-2-cyclopenten-1-yl]-4-yl]-ethanone]nitrosyliron, *see* Fe-00417
- Di- μ -carbonyldecacarbonyldiironosmium, *see* Fe-00798
- Di- μ -carbonyldecacarbonyltriferrate(1-), Fe-00800
- Di- μ -carbonyldecacarbonyltriiron, *see* Fe-00801
- Di- μ -carbonyldicarbonylbis(benzyl- π -cyclopentadienyl)diiron, Fe-01962
- Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]diiron, Fe-01571
- Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]diiron, Fe-01408
- Di- μ -carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01164
- Di- μ -carbonyldicarbonylbis[(3,4,5- η)-2,3-dihydro-2-methyl-1*H*-1,2-azaborol-3-yl-*B*²,*N*¹]diiron, Fe-00932
- Di- μ -carbonyldicarbonylbis[(3,4,5- η)-1-(1,1-dimethylethyl)-2,3-dihydro-2-methyl-1*H*-1,2-azaborol-3-yl-*B*²,*N*¹]diiron, Fe-01691
- Di- μ -carbonyldicarbonylbis[(3,4,5- η)-1-(1,1-dimethylethyl)-2,3-dihydro-3-methyl-2-phenyl-1*H*-1,2-azaborol-3-yl-*B*²,*N*¹]diiron, Fe-02072
- Di- μ -carbonyldicarbonylbis[(1,2,3,3*a*,7*a*,- η)-1*H*-inden-1-yl]diiron, Fe-01734
- Di- μ -carbonyldicarbonylbis(η^5 -1-iodo-2,4-cyclopentadien-1-yl)diiron, Fe-01145
- Di- μ -carbonyldicarbonylbis(1-isopropenyl-2,3,4,5-tetramethyl- π -cyclopentadienyl)diiron, *see* Fe-01975
- Di- μ -carbonyldicarbonylbis(1-methylborinato)diiron, *see* Fe-01417
- Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]diiron, Fe-01409
- Di- μ -carbonyldicarbonylbis[(1,2,3,3*a*,7*a*,- η)-1-methyl-1*H*-inden-1-yl]diiron, Fe-01818
- Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl]diiron, Fe-01963
- Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1-methyl-2,3,4-triphenyl-2,4-cyclopentadien-1-yl]diiron, Fe-02189
- Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]diiron, Fe-01853
- Di- μ -carbonyldicarbonylbis[(1,2,3,4,5,6- η)-1-phenylboratabenzene]diiron, Fe-01917
- Di- μ -carbonyldicarbonylbis(1-phenylborinato)diiron, *see* Fe-01917
- Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1-phenylmethyl-2,4-cyclopentadien-1-yl]diiron, *see* Fe-01962
- Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1,2,3,4-tetramethyl-5-(1-methylethenyl)-2,4-cyclopentadien-1-yl]diiron, Fe-01975
- Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1-trimethylsilyl-2,4-cyclopentadien-1-yl]diiron, Fe-01687
- Di- μ -carbonyldicarbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01410
- Di- μ -carbonyldicarbonylcycloheptadienylum- π -cycloidyndiiron, *see* Fe-01410
- Di- μ -carbonyldicarbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01316
- Di- μ -carbonyldicarbonylcyclohexadienylum- π -cyclopentadienyldiiron, *see* Fe-01316
- Di- μ -carbonyldicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(1,2,3,3*a*,7*a*,- η)-1*H*-inden-1-yl]diiron, Fe-01526
- Di- μ -carbonyldicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]diiron, Fe-01317
- Di- μ -carbonyldicarbonyldicyclohexadienylumdiiron, *see* Fe-01408
- Di- μ -carbonyldicarbonyldi- μ -hydrotris[μ_3 -(tricarbonylruthenio)]iron, Fe-00997
- Di- μ -carbonyldicarbonyldi- π -indenylidiiron, *see* Fe-01734
- Di- μ -carbonyldicarbonyl[μ -[(1,2,3,4,5- η :1',2',3',4',5'- η)-(dimethylsilylene)bis(2,4-cyclopentadien-1-ylidene)]]diiron, Fe-01411
- Di- μ -carbonyldicarbonyl[μ -[(1,2,3,3*a*,8*a*,- η :1',2',3',3*a*',8*a*'- η)-1,1',4,4'-tetrahydro[4,4'-biazulen]-1,1'-diyl]]diiron, Fe-01815
- Di- μ -carbonyldicarbonyl[μ -[(1,2,3,4,5- η :1',2',3',4',5'- η)-(1,1,2,2-tetramethyl-1,2-ethanediyl)di-2,4-cyclopentadien-1-ylidene]]diiron, Fe-01680
- Dicarbonyldichlorobis(trimethylphosphine)iron, Fe-00324
- Dicarbonyldichlorobis(triphenylphosphine)iron, Fe-02133
- Dicarbonyldichloroiron, Fe-00004
- Dicarbonyldi- π -cyclopentadienylbis[μ -(dimethylarsino)]diiron, *see* Fe-01443
- Dicarbonyldi- π -cyclopentadienylbis[μ -(dimethylgermylene)]diiron, *see* Fe-01450
- Dicarbonyldi- π -cyclopentadienylbis[μ -(dimethylphosphino)]diiron, *see* Fe-01451
- Dicarbonyldi- π -cyclopentadienylbis[μ -(diphenylphosphino)]diiron, *see* Fe-02114
- Dicarbonyldi- π -cyclopentadienylbis(μ -methanethiolato)diiron, *see* Fe-01231
- Dicarbonyldi- π -cyclopentadienylbis(μ -methanethiolato)diiron(1+), *see* Fe-01232
- Dicarbonyldihydrobis(triphenyl phosphite-*P*)iron, Fe-02140
- Dicarbonyldiiodobis(isocyanomethane)iron, Fe-00131
- Dicarbonyldiiodobis(methyl isocyanide)iron, *see* Fe-00131
- Dicarbonyldiiodobis(phosphine)iron, Fe-00008
- Dicarbonyldiiodobis(trimethylphosphine)iron, Fe-00325
- Dicarbonyldimethylbis(trimethylphosphine)iron, Fe-00650
- Dicarbonyl[*N,N'*-(1,2-dimethyl-1,2-ethanediylidene)-bis(benzenamine)-*N,N'*](trimethylphosphine)iron, Fe-01730
- Dicarbonyl[(3,4,5- η)-1-(1,1-dimethylethyl)-2,3-dihydro-2-methyl-1*H*-1,2-azaborol-3-yl-*B*²,*N*¹]iodoiron, *see* Fe-00637
- Dicarbonyl[(3,4,5- η)-1-(1,1-dimethylethyl)-2,3-dihydro-2-methyl-1*H*-1,2-azaborol-3-yl-*B*²,*N*¹](trimethylsilyl)iron, Fe-01122
- Dicarbonyl[(3,4,5- η)-1-(1,1-dimethylethyl)-2,3-dihydro-3-methyl-2-phenyl-1*H*-1,2-azaborol-3-yl-*B*²,*N*¹]iodoiron, *see* Fe-01430
- Dicarbonyl(1,4-dimethyltetraazabutadiene)-(triphenylphosphine)iron, *see* Fe-01767
- Dicarbonyl(1,4-dimethyl-1,3-tetrazadiene-*N*¹,*N*⁴)-(triphenylphosphine)iron, Fe-01767
- Dicarbonyldinitrosyliron, Fe-00007

- Dicarbonyl(dioxygen)bis(triphenylphosphine)iron, Fe-02139
 Dicarbonyl(1,4-diphenyl-2,3-dimethyl-1,4-diaza-1,3-butadiene)(trimethylphosphine)iron, *see* Fe-01730
 Dicarbonyl(dithiocarboxylato)[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]ferrate(1-), Fe-00374
 Dicarbonyl(dithiocarboxylato)[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]ferrate(1-), Fe-01086
 Dicarbonyl(η^2 -ethene)bis(trimethyl phosphite-*P*)iron, Fe-00649
 Dicarbonyl[ethylenebis(diphenylphosphine)]-(heptafluoropropyl)iodoiron, Fe-02031
 Dicarbonyl(ethylene)bis(trimethyl phosphite)iron, *see* Fe-00649
 Di- μ -carbonylhexacarbonyl(dicarbonyliron)di- μ -hydro(tricarbonylruthenium)diosmium, Fe-00995
 Di- μ -carbonylhexacarbonyl- μ -hydrodiferrate(1-), Fe-00246
 Di- μ -carbonylhexacarbonyl[μ -(tetracarbonylruthenio)]diiron, *see* Fe-00799
 Di- μ -carbonylhexacarbonyl(1,2,3,4-tetraphenyl-1,3-butadiene-1,4-diyl)triiron, Fe-02106
 Di- μ -carbonylhexacarbonyl[μ_3 -(1,2,3,4-tetraphenyl-1,3-butadienylene)]triiron, *see* Fe-02106
 Dicarbonyl[(3,4,5,6- η)-3,5-hexadien-2-one]-(triphenylphosphine)iron, Fe-01930
 Dicarbonyl[(1,2,3,4,5,6- η)-hexamethylbenzene]iron, Fe-01255
 Dicarbonyl[(1,2,3- η)-2-hexen-5-one-1-yl]nitrosyliron, Fe-00319
 Dicarbonylhydro[(1,2,3,4,5- η)-1,2,3,4,5-pentaphenyl-2,4-cyclopentadien-1-yl]iron, Fe-02126
 Dicarbonyl[(1,2,3,3a,7a- η)-1*H*-inden-1-yl]ferrate(1-), Fe-00668
 Dicarbonyl[(1,2,3,3a,7a- η)-1*H*-inden-1-yl]iodoiron, Fe-00667
 Dicarbonyl[(1,2,3,3a,7a- η)-1*H*-inden-1-yl]methyliron, Fe-00849
 Dicarbonyl[(1,2,3,3a,7a- η)-1*H*-inden-1-yl](phenylmethyliron), *see* Fe-01537
 Dicarbonyl(η^5 -1-iodo-2,4-cyclopentadien-1-yl)methyliron, Fe-00286
 Dicarbonyliodo(η^5 -1-iodo-2,4-cyclopentadien-1-yl)iron, Fe-00159
 Dicarbonyliodomethylbis(trimethylphosphine)iron, Fe-00469
 Dicarbonyliodo[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]iron, Fe-00287
 Dicarbonyliodo[(1,2,3,4,5- η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl]iron, Fe-01169
 Dicarbonyliodo(η^3 -2-propenyl)(triphenylphosphine)iron, Fe-01797
 Dicarbonyliodotris(trimethylphosphine)iron(1+), Fe-00792
 Dicarbonyl(2-methyl- π -allyl)nitrosyliron, *see* Fe-00133
 Dicarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]ferrate(1-), Fe-00290
 Dicarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]-(ferrocenylmethoxymethylene)manganese, Fe-01675
 Dicarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]phenyliron, Fe-01179
 Dicarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]-(phenylmethyl)iron, *see* Fe-01331
 Dicarbonyl(methyl isocyanide)[5-(pentafluorophenyl)-1,3-cyclopentadiene]iron, Fe-01290
 Dicarbonylmethyl(1-methyl-3-phenyl- π -cyclopentadienyl)iron, *see* Fe-01332
 Dicarbonylmethyl[(1,2,3,4,5- η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl]iron, Fe-01332
 Dicarbonylmethyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, Fe-01116
 Dicarbonyl[(1,2,3- η)-2-methyl-2-propenyl]nitrosyliron, Fe-00133
 Dicarbonyl[(methylthio)thioxomethyl]-bis(triphenylphosphine)iron(1+), Fe-02156
 Dicarbonylmethyltris(trimethylphosphine)iron(1+), Fe-00982
 Dicarbonylnitrosylbis(triphenylphosphine)iron(1+), Fe-02136
 Dicarbonylnitrosyl(5-oxo-1,2,3-hexenyl)iron, *see* Fe-00319
 Dicarbonylnitrosyl[(1,2,3- η)-4-oxo-1,2,3-triphenyl-2-cyclobuten-1-yl]iron, Fe-01812
 Dicarbonylnitrosyl[(1,2,3- η)-1-phenyl-2-propenyl]iron, Fe-00693
 Dicarbonylnitrosyl(phosphorous acid)(triphenylgermyl)-iron, triphenyl ester, *see* Fe-02134
 Dicarbonylnitrosyl(phosphorous acid)(triphenylplumbyl)-iron, triphenyl ester, *see* Fe-02137
 Dicarbonylnitrosyl(phosphorous acid)(triphenylstannyl)-iron, triphenyl ester, *see* Fe-02138
 Dicarbonylnitrosyl(η^3 -2-propenyl)iron, Fe-00080
 Dicarbonylnitrosyl[(1,2,3,4- η)-1,2,3,4-tetramethyl-1,3-cyclobutadiene]iron(1+), Fe-00615
 Dicarbonylnitrosyl(tetraphenylcyclobutadiene)iron(1+), Fe-01999
 Dicarbonylnitrosyl[(1,2,3- η)-4-(trimethylphosphonio)-2-cyclobuten-1-yl]iron(1+), Fe-00453
 Dicarbonylnitrosyl[(1,2,3- η)-1,2,3-triphenyl-2-cyclopropen-1-yl]iron, Fe-01785
 Dicarbonylnitrosyl(triphenylgermyl)(triphenyl phosphite-*P*)iron, Fe-02134
 Dicarbonylnitrosyl(triphenylphosphine)-[(triphenylphosphine)aurio]iron, Fe-02131
 Dicarbonylnitrosyl(triphenylphosphine)(triphenylstannyl)iron, Fe-02135
 Dicarbonylnitrosyl(triphenyl phosphite-*P*)-(triphenylplumbyl)iron, Fe-02137
 Dicarbonylnitrosyl(triphenyl phosphite-*P*)-(triphenylstannyl)iron, Fe-02138
 Di- μ -carbonylnonacarbonyl(dicarbonylferrate)- μ -hydrotriruthenate(1-), Fe-00990
 Di- μ -carbonylnonacarbonyl(dicarbonyliron)di- μ -hydrotriosmium, Fe-00996
 Di- μ_3 -carbonylnonacarbonyltriferrate(2-), Fe-00652
 Di- μ -carbonylnonacarbonyl(triphenylphosphine)diironruthenium, *see* Fe-01980
 Di- μ -carbonylnonacarbonyl(triphenylphosphine)triiron, Fe-01981
 Di- μ -carbonylnonacarbonyl(triphenylstibine)triiron, Fe-01982
 Di- μ -carbonyloctacarbonyl(dicarbonyliron)di- μ -hydro(dimethylphenylphosphine)triruthenium, Fe-01649
 Dicarbonyl(octafluorotetramethylene)bis(phosphorous acid)iron hexethyl ester, *see* Fe-01590
 Dicarbonyl(octafluorotetramethylene)bis(triethyl phosphite)iron, Fe-01590
 Dicarbonyl[5-(pentafluorophenyl)-1,3-cyclopentadiene]-(triphenylphosphine)iron, Fe-02025
 Dicarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]ferrate(1-), Fe-00959
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 Dicarbonyl(phenylazo)bis(triphenylphosphine)iron(1+), Fe-02166
 Dicarbonyl[(phenylmethyl)thio]thioxomethyl]-bis(trimethylphosphine)iron(1+), *see* Fe-01457
 Dicarbonyl[(*O*,1,2,3- η)-3-phenyl-2-propenal]-(triphenylphosphine)iron, Fe-01986
 Dicarbonyl[(*S*,1,2,3- η)-2-propenethial](triphenylphosphine)iron, Fe-01793
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 [η^4 -1,3-Dicarboxy-2-methylene-1,3-propanediyl]tricarbonyliron, Fe-00359

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- 1,1'-Dicuprioferrocene, *see* Fe-00515
- Dicyano- π -cyclopentadienyl(triphenylphosphine)iron(1-), *see* Fe-01876
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- Di- π -cyclopentadienyliron, *see* Fe-00563
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- 1,1'-Diethenylferrocene, *see* Fe-01195
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- [(Diethoxyphosphinyl)methyl]ferrocene, Fe-01357
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- (η^5 -1,2-Diethylcyclopentadienyl)(η^5 -ethylcyclopentadienyl)iron, *see* Fe-01446
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- Diethyltetranitrosyldi- μ -thioxodiiron, *see* Fe-00054
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- α,β -Diferrocenylstilbene, *see* Fe-02094
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- Diferrocenyl sulfone, *in* Fe-01669
- (Diferrocenylthallio)ferrocene, *see* Fe-02012
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- 1,3-Diferrocenyl-1-triazene, Fe-01677
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- (1,2-Diformylcyclobutadiene)tricarboxyliron, *see* Fe-00344
- 1,1'-Diformylferrocene, *see* Fe-00850
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- [μ -(5,6-Dihydrobenzo[*c*]cinnolinato-*N*⁵,*N*⁶:*N*⁵,*N*⁶)]hexacarbonyl-diiron, Fe-01515
- (8,9-Dihydroindene)tricarboxyliron, *see* Fe-00858
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- 3',4'-Dihydropyrdo(3',4')ferrocene, *see* Fe-01063
- Dihydrotetrakis(phosphorous acid)iron dodecaethyl ester, *see* Fe-01862
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- Dihydrotetrakis(trimethylphosphine)iron, Fe-00985
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- 1,1'-Dihydroxy-3,3'-dimethylferrocene, Fe-00947
- 1,1'-Dihydroxyferrocene, Fe-00569
- 2,5-Dihydroxyferrole, *see* Fe-00483
- [(1,2,3,3a,13a,14,15,16,16a,16f- η)-Diindeno(5,4-*c*,4',5'-*g*)-phenanthrene]iron, Fe-01958
- Diindenyl-diiron tetracarboxyl, *see* Fe-01734
- Diiodobis(triphenylphosphine)iron, Fe-02111
- 1,1'-Diiodoferrocene, Fe-00516
- 1,2-Diiodoferrocene, Fe-00517
- Diiodotetracarboxyliron, *see* Fe-00039
- Di- μ -iodotetranitrosyldiiron, Fe-02219
- Diiron enneacarboxyl, *see* Fe-00334
- 1,1'-Diisocyanatoferrrocene, Fe-00825
- 1,1'-Diisopropenylferrocene, *see* Fe-01425
- 1,1'-Diisopropylferrocene, Fe-01445
- 1,4-Diketo[4]ferrocenophane, *see* Fe-01180
- 1,5-Diketo[5]ferrocenophane, *see* Fe-01333
- 1,1'-Dilithioferrocene, Fe-00518
- 1,2-Dilithioferrocene, Fe-00519
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- Di- μ -mercaptotetranitrosyldiiron, *see* Fe-02217
- 1,1'-Dimethoxyferrocene, *in* Fe-00569

- Dimethylaminoborinetetracarbonyliron, *see* Fe-00127
- 1-(1-Dimethylaminoethyl)-1',2-bis(diphenylphosphino)ferrocene, Fe-02141
- 1-[1-(Dimethylamino)ethyl]-2-(dimethylphosphino)ferrocene, Fe-01453
- 1-[1-(Dimethylamino)ethyl]-2-(diphenylphosphino)ferrocene, Fe-01939
- [1-(Dimethylamino)ethyl]ferrocene, Fe-01260
- [2-[1-(Dimethylamino)ethyl]ferrocenyl-*C,N*](2,4-pentanedionato-*O,O'*)palladium, Fe-01637
- 2-[(Dimethylamino)methyl]- α,α -diphenylferrocenemethanol, Fe-01937
- 1-[(Dimethylamino)methyl]-2-(diphenylphosphino)ferrocene, Fe-01910
- 1-[(Dimethylamino)methyl]-2-ethylferrocene, Fe-01356
- (Dimethylaminomethyl)ferrocene, *see* Fe-01108
- 2-[(Dimethylamino)methyl]ferroceneboronic acid, Fe-01111
- 2-[(Dimethylamino)methyl]ferrocenecarbonitrile, *see* Fe-01219
- 1'-[(Dimethylamino)methyl]ferrocenecarboxaldehyde, Fe-01238
- 2-[(Dimethylamino)methyl]ferrocenecarboxylic acid, Fe-01239
- [(Dimethylamino)methyl]ferrocene lithium complex, *see* Fe-01098
- [2-[(Dimethylamino)methyl]ferrocenyl-*C,N*]copper, Fe-01093
- [2-[(Dimethylamino)methyl]ferrocenyl-*C,N*](2,4-pentanedionato-*O,O'*)palladium, Fe-01578
- [2-[(Dimethylamino)methyl]ferrocenyl-*C,N*]silver, Fe-01089
- 1-(Dimethylamino)methyl-1'-formylferrocene, *see* Fe-01238
- 1-[(Dimethylamino)methyl]-2-(hydroxymethyl)ferrocene, Fe-01264
- 1-[(Dimethylamino)methyl]-2-lithioferrocene, Fe-01098
- 1-[(Dimethylamino)methyl]-2-methylferrocene, Fe-01261
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- η^6 -*N,N*-Dimethylaniline- η^5 -cyclopentadienyliron(1+), *see* Fe-01099
- 2,5-Dimethylarsaferrocene, *see* Fe-00765
- Dimethylborylferrocene, Fe-00952
- (Dimethylboryl)ferrocene, *see* Fe-00952
- 1,1'-(*N,N*-Dimethylenebenzeneamine)diylferrocene, *see* Fe-01565
- 1,1'-Dimethyleneferrocene, *see* Fe-00891
- 1,1''-(1,2-Dimethyl-1,2-ethenediyl)bisferrocene, *see* Fe-01849
- (1,1-Dimethylethyl)ferrocene, *see* Fe-01244
- 1,1'-Dimethylferrocene, Fe-00935
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- α,α' -Dimethyl-1,1'-ferrocenebisethanamine, *see* Fe-01268
- 1',2-Dimethylferrocenecarboxylic acid, Fe-01076
- 1',3-Dimethylferrocenecarboxylic acid, Fe-01077
- α,α' -Dimethyl-1,1'-ferrocenedimethanol, *see* Fe-01254
- 3,3'-Dimethyl-1,1'-ferrocenediol, *see* Fe-00947
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- 1,12-Dimethyl[1.1]ferrocenophane, Fe-01850
- N,N*-Dimethyl-1-ferrocenylethylamine, *see* Fe-01260
- N,N*-Dimethylferrocenylmethylamine, *see* Fe-01108
- α,α -Dimethylferrocenylmethyl cyanide, *see* Fe-01213
- Dimethylferrocenylphosphine, *see* Fe-00963
- (Dimethylfulvene)diiron hexacarbonyl, *see* Fe-01167
- (1,3-Dimethyl-2-imidazolidinylidene)tetracarbonyliron, *see* Fe-00425
- (2,2-Dimethylisoindene)tricarbonyliron, *see* Fe-01181
- 1,3-Dimethyl-2-oxa[3]ferrocenophane, *see* Fe-01226
- 6,8-Dimethyl-7-oxa[3]ferrocenophane, *see* Fe-01226
- N,N*-Dimethyl-2-phenylferrocenemethylamine, *see* Fe-01632
- 3,4-Dimethyl-1-phosphaferrocene, *see* Fe-00774
- (Dimethylphosphino)ferrocene, Fe-00963
- [α -(2-Dimethylphosphino)ferrocenyl]ethyl]dimethylamine, *see* Fe-01453
- [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphole-2-carbonitrilato]-[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-1-yl]iron, *in* Fe-01103
- [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphole-2-carboxaldehydato]-[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-1-yl]iron, Fe-01102
- [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphole-2-methanolato]-[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-1-yl]iron, Fe-01115
- [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl][(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphole-2-carboxylato]iron, Fe-01103
- [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl][1-[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-2-yl]ethanonato]iron, Fe-01252
- [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl][(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-2-yl]phenylmethanonato]iron, Fe-01630
- [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl][(1,2,3,4,5- η)-2-ethyl-3,4-dimethyl-1*H*-phosphol-1-yl]iron, Fe-01273
- [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl][(1,2,3,4,5- η)- $\alpha,\alpha,3,4$ -tetramethyl-1*H*-phosphole-2-methanolato]iron, Fe-01358
- [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl][(1,2,3,4,5- η)- $\alpha,3,4$ -trimethyl-1*H*-phosphole-2-methanolato]iron, Fe-01270
- 1,1'-(Dimethylsilylene)ferrocene, Fe-00949
- (1,4-Dimethyltetrazolin-5-ylidene)tetracarbonyliron, *see* Fe-00199
- (3,4-Dimethylthiophene 1,1-dioxide)iron tricarbonyl, *see* Fe-00411
- $\triangleright$ Dimethyltris(triphenylphosphine)iron, Fe-02195
- [μ -[1,3-Dimethylureato(2-)]hexacarbonyldiiron, Fe-00362
- (Dinitrogen)bis[1,2-ethanediy]bis(diphenylphosphine-*P,P'*)hydroiron(1+), Fe-02191
- (Dinitrogen)tris(ethyldiphenylphosphine)dihydroiron, Fe-02162
- Dinitrosylbis(phenyl isocyanide)iron, *see* Fe-01148
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- Dinitrosylbis(triphenylarsine)iron, Fe-02108
- Dinitrosylbis(triphenylphosphine)iron, Fe-02112
- Dinitrosylbis(triphenyl phosphite-*P*)iron, Fe-02113
- Dinitrosyl(1-methylallyl)(triphenylphosphine)iron(1+), *see* Fe-01769
- Dinitrosyl(pentacarbonylmanganio)(triphenylphosphine)iron, Fe-01784
- Dinitrosyl(2,4-pentanedionato)iron, Fe-00087
- Dinitrosyl(1,10-phenanthroline-*N*¹,*N*¹⁰)iron, Fe-00827
- Dinitrosyl(η^3 -2-propenyl)(triphenylphosphine)iron(1+), Fe-01723
- (1,3,2,4-Dioxadiarsetanediylidicyclopentadienylene)-bis(cyclopentadienyl)iron, *see* Fe-01664
- 1,1''-(1,4-Dioxo-1,4-butanediyl)bisferrocene, *see* Fe-01848
- 1,1'-(1,4-Dioxo-1,4-butanediyl)ferrocene, *see* Fe-01180
- (1,3-Dioxobutyl)ferrocene, Fe-01206
- 1,4-Dioxo[4]ferrocenophane, *see* Fe-01180
- 1,5-Dioxo[5]ferrocenophane, *see* Fe-01333
- 1,1'-(1,5-Dioxo-1,5-pentanediy)ferrocene, *see* Fe-01333
- 1,1'-(1,5-Dioxo-2-pentene-1,5-diyl)ferrocene, *see* Fe-01308
- 1,1'-(1,5-Dioxo-3-phenyl-1,5-pentanediy)ferrocene, *see* Fe-01716
- 1,1'-(1,5-Dioxo-3-phenyl-2-pentene-1,5-diyl)ferrocene, *see* Fe-01708
- (1,3-Dioxo-3-phenylpropyl)ferrocene, Fe-01625
- 1,1''-(1,3-Dioxo-1,3-propanediyl)bisferrocene, *see* Fe-01802
- (1,2-Dioxopropyl)ferrocene, *see* Fe-01054
- Dipentalenyliron dianion, *see* Fe-01384
- (Diphenylacetylene)tris(phosphorus acid)iron nonamethyl ester, *see* Fe-01810
- N,N*-Diphenylaminoferrocene, Fe-01758
- (Diphenylarsino)dinitrosyliron, *in* Fe-01820
- 1-(Diphenylarsino)-1'-(diphenylphosphino)ferrocene, Fe-02090
- (Diphenylarsino)ferrocene, Fe-01757
- 1,1'-(1,4-Diphenyl-1,3-butadiene-1,4-diyl)ferrocene, *see* Fe-01919
- 1,1'-(1,4-Diphenyl-1,4-butanediyl)ferrocene, *see* Fe-01931
- 1,1''-(1,2-Diphenyl-1,2-ethenediyl)bisferrocene, *see* Fe-02094
- 1,1'-Diphenylferrocene, Fe-01745
- 1,2-Diphenylferrocene, Fe-01746

- 1,3-Diphenylferrocene, Fe-01747
 α,α -Diphenylferrocenemethanol, *see* Fe-01798
 1,4-Diphenyl[4]ferrocenophane, Fe-01931
 1,4-Diphenyl[4]ferrocenophane-1,3-diene, Fe-01919
N,N-Diphenylferrocenylamine, *see* Fe-01758
 Diphenyl(ferrocenyl)carbenium(1+), *see* Fe-01791
 (6,6-Diphenylfulvene)iron tricarbonyl, *see* Fe-01700
 1,1'-(Diphenylgermylene)ferrocene, Fe-01748
 2-(α,α -Diphenylhydroxymethyl)dimethylaminomethylferrocene, *see* Fe-01937
 (Diphenylphosphino)ferrocene, *see* Fe-01760
 α -[[2-(Diphenylphosphino)ferrocenyl]ethyl]dimethylamine, *see* Fe-01939
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 (Diphenylphosphinyl)ferrocene, Fe-01759
 [(Diphenylphosphinyl)methyl]ferrocene, *in* Fe-01803
 1,1-Diphenyl-1-sila[1]ferrocenophane, *see* Fe-01752
 1,1'-(Diphenylsilylene)ferrocene, Fe-01752
 1,1'-(5',6'-Diphenyl[1,1':2',1''-terphenyl]-3',4'-diyl)ferrocene, Fe-02150
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 1,1''-Diselenobisferrocene, Fe-01672
 (μ -Diselenolato)bis(tricarbonyliron), *see* Fe-00100
 1,1'-Diselenylferrocene, Fe-00593
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 (μ -Ditellurato)bis(tricarbonyliron), *see* Fe-00101
 1,3-Dithian-2-ylferrocene, Fe-01230
 1,1'-Di(2-thienoyl)ferrocene, *see* Fe-01652
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 Hexacarbonyl[μ -[(1,2,3,4- η :6,7,8,9- η)-heptalene]]diiron, Fe-01520
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 Hexacarbonyl(5-methylene-1,3-cyclopentadiene)diiron, *see* Fe-00818
 Hexacarbonyl[μ -[(1,2,5- η :1,4,5- η)-3-methylene-1,4-pentadiene-1,5-diyl]]diiron, Fe-00819
 μ -Hexacarbonyl[μ -[2-methyl-2-[(η^2 : η^2 -(thionitroso)]propane]]diiron, Fe-00562
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 Hexacarbonyl[μ -(3-oxo-1,2,4,5-tetraphenyl-1,4-pentadienylene)]diiron, *see* Fe-02099
 Hexacarbonyl[μ -[(1,4,5- η :2,3,4,5- η)-pentahydro-2,4-dicarbapentaborato(2-)]diiron, Fe-00255
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 Hexacarbonyl[μ -[(η^2 : η^4 -1,2-phenylene(2-phenylaminomethylene)]diiron, Fe-01594
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 Hexacarbonyl[μ -(2-propanaminato)][μ -(2-propanoneoximato-*N*:O)]diiron, Fe-00950
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 Hexacarbonyl[μ -[(1,2,3,4- η :1,4- η)-1,2,3,4-tetramethyl-1,3-butadiene-1,4-diyl]]diiron, Fe-01184
 Hexacarbonyl[μ -(1,2,3,4-tetramethyl-1,3-butadienylene)]diiron, *see* Fe-01184
 Hexacarbonyl[μ -[(1,2,3- η :2,3,4- η)-1,1,4,4-tetramethyl-2-butyne-1,4-diyl]]diiron, Fe-01185
 Hexacarbonyl(2,2,6,6-tetramethyl-3,6-diaza-3,5-octadiene)diiron, *see* Fe-01437
 Hexacarbonyl[μ -[(3,4- η :3,4- η)-2,2,5,5-tetramethyl-3-hexyne]]diiron, Fe-01429
 Hexacarbonyl[μ -[(1,2,5- η :1,4,5- η)-1,2,4,5-tetramethyl-3-oxo-1,4-pentadiene-1,5-diyl]]diiron, Fe-01318
 Hexacarbonyl[μ -[(1,2,3,4- η :1,4- η)-1,2,3,4-tetraphenyl-1,3-butadiene-1,4-diyl]]diiron, Fe-02087
 Hexacarbonyl[μ -(1,2,3,4-tetraphenyl-1,3-butadienylene)]diiron, *see* Fe-02087
 Hexacarbonyl(tetraphenylbutatriene)diiron, Fe-02088
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 Hexacarbonyl[μ -[1,3,5-triphenyl-2-pentene-1,5-diiminato(2-)-*N,N'*:*N,N'*]]diiron, Fe-01985
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 Hexakis(trimethyl phosphite-*P*)iron(2+), Fe-01591
 1,1',2,2',4,4'-Hexakis(trimethylsilyl)ferrocene, Fe-01979
 3,1,2-(η^6 -Hexamethylbenzene)- $FeC_2B_9H_{11}$, *see* Fe-01279
 [(1,2,3,4,5,6- η)-1,2,3,4,5,6-Hexamethylbenzene][(1,2,3,4- η)-1,2,3,4,5,6-hexamethyl-1,3-cyclohexadiene]iron, Fe-01861
 [(1,2,3,4,5,6- η)-Hexamethylbenzene][(1,2,3,4,5- η)-1,2,3,4,5,6-hexamethyl-2,4-cyclohexadien-1-yl]iron, Fe-01859
 [(1,2,3,4,5,6- η)-Hexamethylbenzene][(1,2,3,4,5,6- η)-1,2,3,4,5,6-hexamethyl-2,4-cyclohexadien-1-yl]iron(1+), Fe-01860
 [(1,2,3,4,5,6- η)-1,2,3,4,5,6-Hexamethylbenzene][(2,3,4,5- η)-5-methyl-1,3-cyclopentadiene]iron, Fe-01584
 [(1,2,3,4,5,6- η)-Hexamethylbenzene][(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, Fe-01777
 [(1,2,3,4,5,6- η)-Hexamethylbenzene][(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-01778
 [(1,2,3,4,5,6- η)-Hexamethylbenzene][(1,2,3,4- η)-tetramethyl-1,3-cyclobutadiene]iron, Fe-01694
 [(1,2,3,4,5,6- η)-Hexamethylbenzene][(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]iron, Fe-01279
 1,1,2,2,3,3-Hexamethyl-1,2,3-trisila[3]ferrocenophane, *see* Fe-01459
 1,1'-(1,1,2,2,3,3-Hexamethyl-1,3-trisilanediy)ferrocene, Fe-01459
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 μ -1,6-Hexanediyttetracarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01683
 1,1',2,2',3,3'-Hexaphenylferrocene, Fe-02172
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 (μ_2 -Hydrido)(μ_3 -methoxycarbyne)decacarbonyltriiron, *see* Fe-00809
 ▸Hydridotricarbonylnitrosyliron, Fe-00020
 (Hydrogen trithiocarbonato)carbonylcyclopentadienyliron phenyl ester, *see* Fe-01016
 (Hydrogen trithiocarbonato)carbonylcyclopentadienyliron methyl ester, *see* Fe-00297
 (Hydrogen trithiocarbonato)dicarbonylcyclopentadienyliron methyl ester, *see* Fe-00387
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 (α -Hydroxybenzyl)cyclobutadieneiron tricarbonyl, *see* Fe-01152
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 (α -Hydroxyethyl)cyclobutadieneiron tricarbonyl, *see* Fe-00403
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 [7-(2-Hydroxyethylnorbornadiene)]tricarbonyliron, *see* Fe-00910
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 σ -Indenyl- π -cyclopentadienyldicarbonyliron, *see* Fe-01386
 (η^5 -Indenyl)dicarbonyliodoiron, *see* Fe-00667
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 1,1'-(Phenylphosphinidene)diylferrocene, *see* Fe-01396
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 Tricarbonyl[1-[(1,2,3,4- η)-1,3-cyclohexadien-1-yl]-ethanone]iron, *see* Fe-00717

- Tricarbonyl[1-((2,3,4,5- η)-2,4-cyclohexadien-1-yl)-ethanone]iron, *see* Fe-00718
- Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadien-1-yl]ferrocene]iron, Fe-01626
- Tricarbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]iron(1+), Fe-00375
- Tricarbonyl(1,3-cyclohexadien-1-yl methyl ether)iron, *see* Fe-00584
- Tricarbonyl(1,3-cyclohexadien-2-yl methyl ether)iron, *see* Fe-00585
- Tricarbonyl[(1,2,3,4- η)-1,3,5,7-cyclononatetraene]iron, Fe-00856
- Tricarbonyl[(3,4,5,6- η)-1,3,5,7-cyclononatetraene]iron, Fe-00857
- Tricarbonyl[(1,2,3,4- η)-1,3,5-cyclononatriene]iron, Fe-00905
- Tricarbonyl[(1,2,3,4- η)-1,3-cyclooctadiene]iron, Fe-00753
- Tricarbonyl(1,2,5,6- η)-1,5-cyclooctadieneiron, Fe-00754
- Tricarbonyl[(1,2,3,4,5- η)-2,4-cyclooctadien-1-yl]iron(1+), Fe-00744
- Tricarbonyl[(1,2,3,5,6- η)-2,5-cyclooctadien-1-yl]iron(1+), Fe-00745
- Tricarbonyl(1,3,5,7-Cyclooctatetraene-1-carboxaldehyde)iron, Fe-00832
- Tricarbonyl(1,3,5,7-cyclooctatetraene-1-carboxylic acid methyl ester)iron, *see* Fe-01031
- Tricarbonyl(1,3,5,7-cyclooctatetraene-1,2-dicarboxylic acid)iron dimethyl ester, *see* Fe-01314
- Tricarbonyl[(1,2,3,4- η)-1,3,5,7-cyclooctatetraene]iron, Fe-00675
- Tricarbonyl(1,3,5,7-cyclooctatetraene-1-methanol)iron, Fe-00864
- Tricarbonyl(η^4 -1,3,5,7-cyclooctatetraene-1-ylethanone)iron, *see* Fe-01024
- Tricarbonyl(1,3,5,7-cyclooctatetraen-1-yl methyl ketone)iron, *see* Fe-01024
- Tricarbonyl[(4,5,6,7- η)-2,4,6-cyclooctatrien-1-ol]iron, Fe-00720
- Tricarbonyl[(2,3,4,5- η)-2,4,6-cyclooctatrien-1-one]iron, Fe-00683
- Tricarbonyl[(1,2,3- η)-2,4,7-cyclooctatrien-1-yl]iodoiron, Fe-00689
- Tricarbonyl[(1,2,3,4,5- η)-2,4,6-cyclooctatrien-1-yl]iron(1+), Fe-00701
- Tricarbonyl(π -cyclooctatrienylumiron(1+), *see* Fe-00701
- Tricarbonyl(4,6- η , 1- σ -cyclooctenediyl)iron, *see* Fe-00755
- Tricarbonyl[(1,4,5,6- η)-5-cyclooctene-1,4-diyl]iron, Fe-00755
- Tricarbonyl[(1,2,3,4- η)-1,3-cyclopentadiene]iron, Fe-00268
- Tricarbonyl[(2,3,4,5- η)-2,4-cyclopentadien-1-one]iron, Fe-00251
- Tricarbonyl(π -cyclopentadienyl(dicarbonyl- π -cyclopentadienylferrio)molybdenum, *see* Fe-01296
- Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)[dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)]iron molybdenum, Fe-01296
- Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)[dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)]iron chromium, Fe-01295
- Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(ferrocenylcarbonyl)tungsten, Fe-01603
- Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrocenylmolybdenum, Fe-01535
- Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrocenyltungsten, Fe-01541
- Tricarbonyl(2,4-cyclopentadien-1-ylidenediphenylmethane)iron, Fe-01700
- Tricarbonyl[[[(2,3,4,5- η)-2,4-cyclopentadien-1-ylidene]-phenylmethyl]benzene]iron, *see* Fe-01700
- Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00266
- Tricarbonyl[(η^5 -2,4-cyclopentadien-1-yl)iron][μ -[(1,2,3,4,5- η :1,2,3,4,5- η)-3,4-diethyl-2,5-dihydro-2,5-dimethyl-1,2,5-thiadiborole]]manganese, Fe-01438
- Tricarbonyl[1-[(η^4 -2,4-cyclopentadien-1-yl)](2,3,4,5,6-pentafluoro)benzene]iron, *see* Fe-01138
- Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)[dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)]iron tungsten, Fe-01299
- Tri- μ -carbonyldecacarbonyltetraferate(2-), Fe-00989
- Tricarbonyl[(2,3,4,5- η)-2,4,6,8-decatetraenedioic acid]iron, Fe-01033
- Tricarbonyl[(4,5,6,7- η)-2,4,6,8-decatetraenedioic acid]iron, Fe-01034
- Tricarbonyl(1,2-diacetyl-1,3-cyclobutadiene)iron, Fe-00685
- Tricarbonyl[(4,5,6,7- η)-1*H*-1,2-diazepine-1-carboxylic acid]iron, Fe-00351
- Tricarbonyl[(4,5,6,7- η)-1*H*-1,2-diazepine]iron, Fe-00267
- Tricarbonyl(1,2-dibenzoyl-1,3-cyclobutadiene)iron, Fe-01699
- Tricarbonyl[(1,2,3,4- η)-1,2-di-*tert*-butyl-1,3-cyclobutadiene]iron, Fe-01355
- Tricarbonyl(1,2-di-*tert*-butyl-3,4-diphenylcyclobutadiene)iron, Fe-01955
- Tricarbonyl(di- μ -carbonylhexacarbonyldiiron)-(triphenylphosphine)ruthenium, Fe-01980
- Tricarbonyl[(2,3,4,5- η)-dicarbonyltrihiropentaborato(2-)]iron, Fe-00071
- Tricarbonyl(1,2-dicarboxybutadiene)iron, *see* Fe-00360
- Tricarbonyl(1,2-dicarboxycyclobutadiene)iron, *see* Fe-00345
- Tricarbonyl(η^4 -1,2-dichloro-1,3-butadiene)iron, Fe-00156
- Tricarbonyl(η^4 -1,4-dichloro-1,3-butadiene)iron, Fe-00157
- Tricarbonyl(η^4 -2,4-dichloro-1,3-butadiene)iron, Fe-00158
- Tricarbonyl(1,4-dicyano-1,3-butadiene)iron, *see* Fe-00343
- Tricarbonyl(1,2-dicyano-1,3-cyclobutadiene)iron, *in* Fe-00345
- Tricarbonyl[(1,2,3,4- η)-1,2-diethenyl-1,3-cyclobutadiene]iron, *see* Fe-00676
- Tricarbonyl[(1,2,3,4,5- η)-3,4-diethyl-2,5-dihydro-2,5-dimethyl-1,2,5-thiadiborole]iron, Fe-00783
- Tricarbonyl[(1,2,3,4,5- η)-3,4-diethyl-2,5-dihydro-1,2,5-thiadiborole]iron, Fe-00449
- Tricarbonyl[(3,4- η)-4,5-diethyl-1,2,2,3-tetramethyl-1-aza-2-sila-5-boracyclopent-3-ene-*B*⁵,*N*¹]iron, Fe-01120
- Tricarbonyl[(2,3,4,5- η)-4,5-diethyl-1,2,2,3-tetramethyl- Δ^3 -1,2,5-azasilaboroline]iron, *see* Fe-01120
- Tricarbonyl($\Delta^{1,3}$ -dihydroacetophenone)iron, *see* Fe-00717
- Tricarbonyl($\Delta^{1,3}$ -dihydrobenzaldehyde)iron, *see* Fe-00534
- Tricarbonyl[(4,5,6,7- η)-2,3-dihydro-1*H*-1,2-diazepine]iron, Fe-00296
- Tricarbonyl[(2,3,5,6- η)-1,4-dihydro-4,4-dimethyl-1-phenylborin]iron, Fe-01413
- Tricarbonyl[(4,5,6,7- η)-3*a*,7*a*-dihydro-1*H*-inden-1-one]iron, Fe-00858
- Tricarbonyl[(4,5,6,7- η)-3*a*,7*a*-dihydro-1*H*-inden-1-one]iron, Fe-00833
- Tricarbonyl[(3,4,5,6- η)-1,2-dihydro-1-methoxyborin]iron, Fe-00413
- Tricarbonyl[(1,2,3,6,7- η)-4,5-dihydro-1-phenyl-1*H*-borepin]iron, Fe-01320
- Tricarbonyl[(3,4- η)-2,5-dihydrothiophene 1-oxide-*O*]iron, Fe-00207
- Tricarbonyldihydro(triphenylarsine)iron, Fe-01711
- Tricarbonyldihydro(triphenyl phosphite-*P*)iron, Fe-01713
- Tricarbonyldihydro(triphenylstibine)iron, Fe-01712
- Tricarbonyl(η^4 -1,2-diiodo-1,3-cyclobutadiene)iron, Fe-00147
- Tricarbonyl(η^4 -1,3-diiodo-1,3-cyclobutadiene)iron, Fe-00148
- Tricarbonyldiiodo(isocyanomethane)iron, Fe-00072
- Tricarbonyldiiodo(methyl isocyanide)iron, *see* Fe-00072
- Tricarbonyldiiodo(phosphine)iron, Fe-00022
- Tricarbonyldiiodo(phosphorous acid)iron triphenyl ester, *see* Fe-01705
- Tricarbonyldiiodo(trimethylphosphine)iron, Fe-00136
- Tricarbonyldiiodo(triphenylphosphine)iron, Fe-01704
- Tricarbonyldiiodo(triphenyl phosphite-*P*)iron, Fe-01705
- Tricarbonyl(η^3 : η^1 -1,1-dimethylallylcarbonyl)iron, *see* Fe-00405
- Tricarbonyl[(dimethylaminomethyl)cyclobutadiene]iron, Fe-00602
- Tricarbonyl[(1,2,3,4- η)-2,3-dimethyl-1,3-butadiene]iron, Fe-00430
- Tricarbonyl(4,4-dimethyl-1,3-butadienone)iron, *see* Fe-00405
- Tricarbonyl[[[(1,2,3,4- η)-2,3-dimethyl-1,3-butadienyl]-sulfinyl]benzene]iron, *see* Fe-01334
- Tricarbonyl[[[(1,2,3,4- η)-2,3-dimethyl-1,3-butadienyl]-sulfonyl]benzene]iron, *see* Fe-01335
- Tricarbonyl[(1,2,3,4- η)-1,2-dimethyl-1,3-cyclobutadiene]iron, Fe-00391

- Tricarbonyl[(1,2,3,4- η)-*N,N*-dimethyl-1,3-cyclobutadiene-1-methanamine]iron, *see* Fe-00602
- Tricarbonyl[(1,2,3,4- η)-5,5-dimethyl-1,3-cyclohexadiene]iron, Fe-00756
- Tricarbonyl[(2,3,4,5- η)-6,6-dimethyl-2,4-cyclohexadien-1-one]iron, Fe-00721
- Tricarbonyl[(2,3,5,6- η)-4,4-dimethyl-2,5-cyclohexadien-1-one]iron, Fe-00722
- Tricarbonyl[(4,5,6,7- η)-dimethyl-2,4,6,8-cyclooctatetraene-1,2-dicarboxylate]iron, Fe-01314
- Tricarbonyl[(1,2,3,4- η)-5,5-dimethyl-1,3-cyclopentadiene]iron, Fe-00573
- Tricarbonyl(2,6-dimethyl-3,6-diaza-3,5-octadiene)iron, *see* Fe-00784
- Tricarbonyl[(2,3,4,5- η)-1,1-dimethyl-2,5-diphenylsilacyclopenta-2,4-diene]iron, Fe-01717
- Tricarbonyl(1,2-dimethylenecyclobutane)iron, *see* Fe-00389
- Tricarbonyl(5,6-dimethylene-1,3-cyclohexadiene)iron, *see* Fe-00674
- Tricarbonyl[*N,N'*-(1,2-dimethyl-1,2-ethanediylidene)-bis[benzenamine]-*N,N'*]iron, Fe-01621
- Tricarbonyl[(1,3,3*a*,7*a*- η)-2,2-dimethyl-2*H*-indene]iron, Fe-01181
- Tricarbonyl(η^4 -1,1-dimethyl-2-methylene-1,3-propanediyl)iron, Fe-00431
- Tricarbonyl[(3,4,5,6- η)-2,2-dimethyl-1-oxa-2-silacyclohexa-3,5-diene]iron, Fe-00440
- Tricarbonyl[(2,3,4,5- η)-2,7-dimethyloxepin]iron, Fe-00723
- Tricarbonyl[(1,2,3- η)-1,4-dimethyl-5-oxo-2-hexenyl-*O*]iron(1+), Fe-00773
- Tricarbonyl(1,5-dimethyl- π -pentadienyl)iron, *see* Fe-00610
- Tricarbonyl(4,4-dimethyl-1-phenyl-1-bora-2,5-cyclohexadiene)iron, *see* Fe-01413
- Tricarbonyl[(2,3,4,5,6- η)-1,1-dimethyl-4-phenyl-1-sila-4-boracyclohexa-2,5-diene]iron, Fe-01338
- Tricarbonyl[(2,3,4,5- η)-1,1-dimethylsilacyclohexa-2,4-diene]iron, Fe-00622
- Tricarbonyl[(2,3,4,5,6- η)-1,1-dimethylsilacyclohexa-3,5-dien-2-yl]iron(1+), Fe-00611
- Tricarbonyl[(2,3,4,5- η)-1,1-dimethyl-2,3,4,5-tetraphenyl-1*H*-germole]iron, Fe-02077
- Tricarbonyl[(2,3,4,5- η)-1,1-dimethyl-2,3,4,5-tetraphenylsilacyclopenta-2,4-diene]iron, Fe-02078
- Tricarbonyl(1,4-dimethyl-1,3-tetrazadiene-*N*¹,*N*⁴)iron, Fe-00084
- Tricarbonyl[μ -[1,4-dimethyl-2-tetrazenato(2-)]]*iron, see* Fe-00084
- Tricarbonyl[(2,3,4,5- η)-2,5-dimethylthiophene 1,1-dioxide]iron, Fe-00410
- Tricarbonyl[(2,3,4,5- η)-3,4-dimethylthiophene 1,1-dioxide]iron, Fe-00411
- Tricarbonyl[(1,1-dimethylvinyl)ketene]iron, *see* Fe-00405
- Tricarbonyl[(2,3,5,6- η)-1,4-dioxo-2,3,5,6-tetramethyl-2,5-cyclohexadiene]iron, *see* Fe-01058
- Tricarbonyl(η^3 : η^1 -1,2,3-diphenylallylcarbonyl)iron, *see* Fe-01863
- Tricarbonyl(1,4-diphenyl-1,3-butadiene)iron, Fe-01601
- Tricarbonyl[(*O*,1,2,3- η)-1,4-diphenyl-2-butene-1,4-dione]iron, Fe-01597
- Tricarbonyl(1,2-diphenyl-1,3-cyclobutadiene)iron, Fe-01595
- Tricarbonyl(1,4-diphenyl-2,3-dimethyl-1,4-diaza-1,3-butadiene)iron, *see* Fe-01621
- Tricarbonyl[(1,2,3,4- η)-1,6-diphenyl-1,3,5-hexatriene]iron, Fe-01709
- Tricarbonyl[(1,2,3,4- η)-7-(diphenylmethylene)-1,3,5-cycloheptatriene]iron, Fe-01786
- Tricarbonyl[(1,2,3,4- η)-1,8-diphenyl-1,3,5,7-octatetraene]iron, Fe-01787
- Tricarbonyl[(3,4,5,6- η)-1,8-diphenyl-1,3,5,7-octatetraene]iron, Fe-01788
- Tricarbonyl[(1,2,3,5- η)-1,5-diphenyl-2-pentene-1,5-diyl]iron, Fe-01660
- Tricarbonyl[(*O*,1,2,3- η)-1,3-diphenyl-2-propen-1-one]iron, Fe-01524
- Tricarbonyl[(2,3,4,5- η)-1,1-diphenylsilacyclohexa-2,4-diene]iron, Fe-01661
- Tricarbonyl[(1,2,3,4- η)-1,2-divinyl-1,3-cyclobutadiene]iron, Fe-00676
- Tricarbonyl(epiergosterol)iron, *in* Fe-02048
- Tricarbonyl[(5,6,7,8- η)-5,7,22-ergostatrien-3-ol]iron, Fe-02048
- Tricarbonyl[(5,6,7,8- η)-5,7,22*E*-ergostatrien-3-one]iron, *in* Fe-02048
- Tricarbonyl[1,2-ethanediylbis(diphenylarsine)-*As,As'*]iron, Fe-01987
- Tricarbonyl[1,2-ethanediylbis(diphenylphosphine)-*P,P'*]iron, Fe-01989
- Tricarbonyl[*N,N'*-1,2-ethanediylidenebis(cyclohexanamine)-*N,N'*]iron, Fe-01505
- Tricarbonyl[*N,N'*-1,2-ethanediylidenebis[2-methyl-2-propanamine]]iron, Fe-01119
- Tricarbonyl[*N,N'*-1,2-ethanediylidenebis[2-propanamine]-*N,N'*]iron, Fe-00784
- Tricarbonyl(η^4 -2-ethenyl-2-butenedioic acid)iron, Fe-00360
- Tricarbonyl[(1,2,3,4- η)-1-ethenyl-1,3-cyclobutadiene]iron, *see* Fe-00353
- Tricarbonyl(η^4 -2-ethenylpropenoic acid)iron, *see* Fe-00276
- Tricarbonyl[(1,2,3,4- η)-1-ethoxy-1,3-cyclobutadiene]iron, Fe-00400
- Tricarbonyl(1-ethoxyethylidene)(triphenylphosphine)iron, Fe-01907
- Tricarbonyl(1-ethoxyethylidene)(triphenyl phosphite-*P*)iron, Fe-01908
- Tricarbonyl(ethoxyphenylmethylene)(triphenylphosphine)iron, Fe-02004
- Tricarbonyl(ethoxyphenylmethylene)(triphenyl phosphite-*P*)iron, Fe-02005
- Tricarbonyl[(2,3,4,5- η)-ethyl-1*H*-azepine-1-carboxylate]iron, *in* Fe-00503
- Tricarbonyl[(1,2,3,4- η)-1-ethyl-1,3-cyclobutadiene]iron, Fe-00392
- Tricarbonyl[ethylenebis(diphenylarsine)]iron, *see* Fe-01987
- Tricarbonyl[ethylenebis(diphenylphosphine)]iron, *see* Fe-01989
- Tricarbonyl[η^4 -2-(2-ethyl-1-ylidene)-1,3-propanediyl]iron(1+), Fe-00291
- Tricarbonyl[(1,2,3,4,5- η)-2-ethyl-1-phenyl-1*H*-borole]iron, Fe-01321
- Tricarbonyl(ferracyclopentadiene)iron tricarbonyl, *see* Fe-00481
- 1,1,1-Tricarbonylferraindenebis(tricarbonyliron), *see* Fe-01469
- Tricarbonyl[η^6 -(ferrocenylbenzene)]chromium, *see* Fe-01600
- Tricarbonyl[η^4 -(1-ferrocenyl-1,3-butadiene)]iron, *see* Fe-01488
- Tricarbonyl[(2,3,4,5- η)-5-ferrocenyl-2,4-cyclohexadiene]iron, *see* Fe-01626
- Tricarbonyl[(1,2,3,4,5- η)-ferrocenyl-2,4-cyclopentadien-1-yl]manganese, Fe-01528
- Tricarbonyl[(1,2,3,4,5- η)-1-(ferrocenylmethyl)-2,4-cyclopentadien-1-yl]manganese, Fe-01611
- Tricarbonyl[(1,2,3,4- η)-5-fluoro-1,3-cyclohexadiene]iron, Fe-00366
- Tricarbonyl[(2,3,4,5- η)-1-fluoro-1-methyl-2,3,4,5-tetraphenyl-1*H*-germole]iron, Fe-02059
- Tricarbonyl(formylcyclobutadiene)iron, *see* Fe-00250
- Tricarbonyl(1-formyl-1,3,5-cycloheptatriene)iron, *see* Fe-00682
- Tricarbonyl[(1-4- η)-5-formyl-1,3-cyclohexadiene]iron, *see* Fe-00535
- Tricarbonyl(formylcyclooctatetraene)iron, *see* Fe-00832
- Tricarbonylformyl(triphenyl phosphite-*P*)ferrate(1-), Fe-01740
- Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-2-amine]iron, Fe-00627
- Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-1-ol]iron, Fe-00623
- Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-2-ol]iron, Fe-00624
- Tricarbonyl[(4,5,6,7- η)-4,6-heptadien-3-ol]iron, Fe-00625
- Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-2-one]iron, Fe-00583
- Tricarbonyl(1,6,7,8- η^4 -heptafulvene), *see* Fe-00677
- Tricarbonyl(heptafulvene)iron, *see* Fe-00678
- Tricarbonyl[(3,4,5,6,7- η)-heptahydro-3,5-dicarbapentaborato(2-)]iron, Fe-00086
- Tricarbonyl[(1,2,3,4,5- η)-heptahydro-1,2-dicarbapentaborato(2-)]iron, Fe-00085
- Tricarbonyl[η^5 -heptahydro-*C,C'*-dimethyldicarbapentaborato(2-)]iron, Fe-00231

- Tricarbonyl[(1,2,3,4,5- η)-1,2,3,4,5,6,6-heptamethyl-2,4-cyclohexadien-1-yl]iron(1+), Fe-01442
- Tricarbonyl(heptamethylcyclohexadienylium)iron(1+), *see* Fe-01442
- Tricarbonyl[(3,4,5,6- η)-1,3,5-heptatriene]iron, Fe-00574
- Tricarbonyl(hexacarbonyldicobalt)hydro[μ_3 -(phenylmethylidyne)]iron, Fe-01373
- Tri- μ -carbonyl(hexacarbonyldiiron), *see* Fe-00334
- Tricarbonyl[(2,3,4,5- η)-2,4-hexadienal]iron, Fe-00401
- Tricarbonyl[(2,3,4,5- η)-2,4-hexadienedial]iron, Fe-00358
- Tricarbonyl(2,4-hexadienedinitrile)iron, Fe-00343
- Tricarbonyl[(2,3,4,5- η)-2,4-hexadienedioic acid]iron, Fe-00361
- Tricarbonyl[(1,2,3,4- η)-1,3-hexadiene]iron, Fe-00432
- Tricarbonyl[(2,3,4,5- η)-2,4-hexadiene]iron, Fe-00433
- Tricarbonyl[(2,3,4,5- η)-2,4-hexadienenitrile]iron, Fe-00371
- Tricarbonyl[(2,3,4,5- η)-2,4-hexadienoic acid]iron, Fe-00408
- Tricarbonyl[(2,3,4,5- η)-2,4-hexadien-1-ol]iron, Fe-00437
- Tricarbonyl[(3,4,5,6- η)-3,5-hexadien-1-ol]iron, Fe-00439
- Tricarbonyl[(3,4,5,6- η)-3,5-hexadien-2-ol]iron, Fe-00438
- Tricarbonyl[(3,4,5,6- η)-3,5-hexadien-2-one]iron, Fe-00402
- Tricarbonyl[(1,2,3,4,5- η)-2,4-hexadienyl]iron(1+), Fe-00422
- Tricarbonyl[(2,3,4,5,6- η)-hexahydro-2,3-dicarbahexaborato(2-)]iron, Fe-00081
- Tricarbonyl[(2,3,4,5,6- η)-hexahydro-2,4-dicarbahexaborato(2-)]iron, Fe-00082
- Tricarbonyl[(2,3,4,5- η)-2,3,4,5,6,6-hexamethyl-2,4-cyclohexadien-1-one]iron, Fe-01348
- Tricarbonyl[(2,3,4,5- η)-1,1,2,3,4,5-hexaphenyl-1*H*-germole]iron, Fe-02163
- Tricarbonyl[(2,3,4,5- η)-1,1,2,3,4,5-hexaphenylsilacyclopenta-2,4-diene]iron, Fe-02164
- Tricarbonyl[(1,2,3,4- η)-1,3,5-hexatriene]iron, Fe-00393
- Tricarbonyl[(1,2,3,4- η)-1-hydroxy-1,3-butadiene]iron, *see* Fe-00203
- Tricarbonyl[(1,2,3,4- η)-2-hydroxy-1,3-butadiene]iron, *see* Fe-00204
- Tricarbonyl(7-hydroxy-1,3,5-cyclooctatriene)iron, *see* Fe-00720
- Tricarbonyl[(2-hydroxyethyl)-1,3-cyclobutadiene]iron, *see* Fe-00398
- Tricarbonyl(η^4 -2-(2-hydroxyethylidene)-1,3-propanediyl]iron, Fe-00306
- Tricarbonyl(hydroxymethyl-1,3-cyclobutadiene)iron, *see* Fe-00271
- Tricarbonyl(1-hydroxymethyl-1,3,5-cycloheptatriene)iron, *see* Fe-00719
- Tricarbonyl(hydroxymethylcyclooctatetraene)iron, *see* Fe-00864
- Tricarbonyl(5-hydroxymethyl-5-methyl-1,3-cyclopentadiene)iron, *see* Fe-00587
- Tricarbonyl[(1,2,3,4,5- η)-1-hydroxy-2,3,4,5-tetraphenyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-02057
- Tricarbonyl[(5,6,7,7*a*- η)-4*H*-indene]iron, Fe-00830
- Tricarbonyl[(1,2,3,3*a*,7*a*- η)-1*H*-inden-1-yl]iron(1+), Fe-00821
- Tricarbonyl(η^4 -1-iodo-1,3-cyclobutadiene)iron, Fe-00152
- Tricarbonyl(iodomercuro)nitrosyliron, Fe-00015
- Tricarbonyliodo(2-methoxy- π -allyl)iron, *see* Fe-00216
- Tricarbonyliodo[(1,2,3- η)-2-methoxy-2-propenyl]iron, Fe-00216
- Tricarbonyliodo[(1,2,3- η)-2-methyl-2-propenyl]iron, Fe-00215
- Tricarbonyliodo(pentafluoroethyl)iron, Fe-00064
- Tricarbonyliodo(η^3 -2-propenyl)iron, Fe-00120
- (2,3- $C_2B_3H_7$)tricarbonyliron, *see* Fe-00085
- (π -2,3- $C_2B_4H_6$)tricarbonyliron, *see* Fe-00081
- (π -2,4- $C_2B_4H_6$)tricarbonyliron, *see* Fe-00082
- (1,2,4- $C_2B_3H_5$)tricarbonyliron, *see* Fe-00023
- 1,2,4-(Tricarbonyliron)- $C_2B_4H_6$, *see* Fe-00082
- (4)-1,8-(Tricarbonyliron)- $C_2B_5H_7$, *see* Fe-00086
- 1,2,3-Tricarbonyliron- $C_2B_4H_6$, *see* Fe-00081
- 2,1,4-(Tricarbonyliron)-1,4-dimethyl- $C_2B_7H_7$, *see* Fe-00231
- Tricarbonyl(isopropylcyclobutadiene)iron, Fe-00575
- Tricarbonyl(η^4 -(1-lithio-1,3-cyclobutadiene)]iron, Fe-00153
- Tricarbonyl(3*a*,7*a*-methanoindan)iron, *see* Fe-01057
- Tricarbonyl[(1,2,3,4- η)-1-methoxy-1,3-butadiene]iron, *in* Fe-00203
- Tricarbonyl[(1,2,3,4- η)-2-methoxy-1,3-butadiene]iron, *in* Fe-00204
- Tricarbonyl[(1,2,3,4- η)-5-methoxycarbonyl-1,3,5,7-cyclooctatetraene]iron, *see* Fe-01031
- Tricarbonyl(η^4 -2-(methoxycarbonylmethylene)-1,3-propanediyl]iron, *see* Fe-00409
- Tricarbonyl[(1,2,3,4- η)-1-methoxy-1,3-cyclobutadiene]iron, Fe-00272
- Tricarbonyl[(1,2,3,4- η)-1-methoxy-1,3-cyclohexadiene]iron, Fe-00584
- Tricarbonyl[(1,2,3,4- η)-2-methoxy-1,3-cyclohexadiene]iron, Fe-00585
- Tricarbonyl[(1,2,3,4- η)-5-methoxy-1,3-cyclohexadiene]iron, Fe-00586
- Tricarbonyl[(1,2,3,4,5- η)-3-methoxy-2,4-cyclohexadien-1-yl]iron(1+), Fe-00561
- Tricarbonyl[(1,2,3,8- η)-1-methoxy-1,3,5,7-cyclooctatetraene]iron, Fe-00865
- Tricarbonyl(η^4 -2-(2-methoxy-2-oxoethylidene)-1,3-propanediyl]iron, Fe-00409
- Tricarbonyl(methylamino)iron, *in* Fe-00314
- Tricarbonyl[(2,3,5,6- η)-methyl bicyclo[2.2.1]hepta-2,5-diene-2-carboxylate]iron, Fe-00868
- Tricarbonyl[(3,4,5,6- η)-8-methylbicyclo[5.1.0]octa-3,5-dien-2-one]iron, Fe-00866
- Tricarbonyl[(1,2,3,4- η)-2-methyl-1,3-butadiene]iron, Fe-00301
- Tricarbonyl[(1,2,3,4- η)-1-methyl-1,3-cyclobutadiene]iron, Fe-00269
- Tricarbonyl[(1,2,3,4- η)- α -methyl-1,3-cyclobutadiene-1-methanol]iron, Fe-00403
- Tricarbonyl[methyl(3,4,5,6- η)-1,3,5,7-cyclooctatetraene-1-carboxylate]iron, Fe-01031
- Tricarbonyl[(1,2,3,4- η)-1-methyl-1,3-cyclohexadiene]iron, Fe-00577
- Tricarbonyl[(1,2,3,4- η)-2-methyl-1,3-cyclohexadiene]iron, Fe-00578
- Tricarbonyl[(1,2,3,4- η)-5-methyl-1,3-cyclohexadiene]iron, Fe-00576
- Tricarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclohexadien-1-yl]iron(1+), Fe-00558
- Tricarbonyl[(1,2,3,4,5- η)-2-methyl-2,4-cyclohexadien-1-yl]iron(1+), Fe-00559
- Tricarbonyl[(1,2,3,4,5- η)-3-methyl-2,4-cyclohexadien-1-yl]iron(1+), Fe-00560
- Tricarbonyl(1-methyl- π -cyclohexadienylium)iron(1+), *see* Fe-00558
- Tricarbonyl(2-methyl- π -cyclohexadienylium)iron(1+), *see* Fe-00559
- Tricarbonyl(3-methyl- π -cyclohexadienylium)iron(1+), *see* Fe-00560
- Tricarbonyl[(1,2,3,8- η)-1-methyl-1,3,5,7-cyclooctatetraene]iron, Fe-00859
- Tricarbonyl[(2,3,4,5- η)-1-methyl-2,4-cyclopentadiene-1-methanol]iron, Fe-00587
- Tricarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-00376
- Tricarbonyl[(4,5,6,7- η)-3-methyl-1*H*-1,2-diazepine]iron, Fe-00382
- Tricarbonyl[(4,5,6,7- η)-5-methyl-1*H*-1,2-diazepine]iron, Fe-00383
- Tricarbonyl(3-methylene-2-butenic acid)iron, Fe-00276
- Tricarbonyl[(1,2,3,4- η)-7-methylene-1,3,5-cycloheptatriene]iron, Fe-00678
- Tricarbonyl[(1,6,7,1'- η)-7-methylene-1,3,5-cycloheptatriene]iron, Fe-00677
- Tricarbonyl(η^4 -2-methylene-1,1-diphenyl-1,3-propanediyl]iron, Fe-01602
- Tricarbonyl(π , σ -2-methylene-1,1-diphenyltrimethylene)iron, *see* Fe-01602
- Tricarbonyl(η^4 -3-methylene-4-penten-2-one)iron, Fe-00404
- Tricarbonyl(η^4 -2-methylene-1-phenyl-3-buten-1-one)iron, Fe-01153

- Tricarbonyl(η^4 -2-methylene-1-phenyl-1,3-propanediyl)iron, Fe-01023
- Tricarbonyl(π,σ -2-methylene-1-phenyltrimethylene)iron, *see* Fe-01023
- Tricarbonyl(η^4 -2-methylene-1,3-propanediyl)iron, Fe-00202
- Tricarbonyl(π,σ -2-methylenetrimethylene)iron, *see* Fe-00202
- Tricarbonyl[(1,2,3,4- η)-1-(1-methylethyl)-1,3-cyclobutadiene]iron, *see* Fe-00575
- Tricarbonyl(η^4 -7-methyl-3-methylene-1,6-octadiene)iron, Fe-01104
- Tricarbonyl[(1,2,3,4- η)-2-methyl-1,3-pentadiene]iron, Fe-00434
- Tricarbonyl[(1,2,3,4- η)-3-methyl-1,3-pentadiene]iron, Fe-00435
- Tricarbonyl[(1,2,3,4- η)-4-methyl-1,3-pentadiene]iron, Fe-00436
- Tricarbonyl[(1,2,3,4- η)-4-methyl-1,3-pentadien-1-one]iron, Fe-00405
- Tricarbonyl(1-methylpentadienyl)iron(1+), *see* Fe-00422
- Tricarbonyl(methyl-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl ketone)iron, *see* Fe-01347
- Tricarbonyl[(2,3,4,5- η)-1-methyl-2,3,4,5-tetraphenyl-1*H*-germole]iron, Fe-02061
- Tricarbonyl[(1,2,3,4,5- η)-1-methyl-2,3,4,5-tetraphenyl-1*H*-germol-1-yl]iron(1+), Fe-02060
- Tricarbonyl[(2,3,4,5- η)-1-methyl-2,3,4,5-tetraphenylsilacyclopenta-2,4-diene]iron, Fe-02062
- Tricarbonyl[(1,2,3,4- η)-1-(methylthio)-1,3-cyclobutadiene]iron, *in* Fe-00161
- Tricarbonylnitrosylferrate(1-), Fe-00017
- ▶ Tricarbonylnitrosyliron hydride, *see* Fe-00020
- (Tricarbonylnitrosyliron)trimethyllead, *see* Fe-00137
- (Tricarbonylnitrosyliron)triphenyllead, *see* Fe-01706
- Tricarbonylnitrosyl(trichlorogermyl)iron, Fe-00012
- Tricarbonylnitrosyl(trichlorostannyl)iron, Fe-00013
- Tricarbonylnitrosyl[(trimethylphosphine)aurio]iron, Fe-00134
- Tricarbonylnitrosyl[(trimethyl phosphite-*P*)aurio]iron, Fe-00135
- Tricarbonylnitrosyl(trimethylplumbyl)iron, Fe-00137
- Tricarbonylnitrosyl(triphenylgermyl)iron, Fe-01703
- Tricarbonylnitrosyl[(triphenylphosphine)aurio]iron, Fe-01701
- Tricarbonylnitrosyl(triphenylplumbyl)iron, Fe-01706
- Tricarbonylnitrosyl(triphenylstannyl)iron, Fe-01707
- Tri- μ -carbonylnonacarbonyl(nitrosylferrate)triruthenate(1-), Fe-00794
- Tricarbonyl[(1,2,3- η)-1,2,3,4,4,5,5,6,6-nonafluoro-2-cyclohexen-1-yl]ferrate(1-), Fe-00332
- ▶ Tricarbonyl[nonahydropentaborate(2-)]iron, Fe-00026
- Tricarbonyl(2,5-norbornadiene)iron, *see* Fe-00524
- Tricarbonyl(2,5-norbornadien-7-ol)iron, *see* Fe-00530
- Tricarbonyl(2,5-norbornadien-7-one)iron, *in* Fe-00530
- Tricarbonyl(norcaradiene)iron, *see* Fe-00526
- Tri- μ -carbonyloctacarbonylbis[μ_4 -[(1- η :1,2- η :1,2- η :2- η)-1-methyl-1,2- η :ethenediyl]]tetrairon, Fe-01470
- Tri- μ -carbonyloctacarbonyl[μ_4 -[ethanaminato(2-)]][μ_4 -(nitrosoethane-*N:N:O:O*)]tetrairon, Fe-01300
- Tricarbonyl(1,2,3,4,5,5,6,6-octafluoro-1,3-cyclohexadiene)iron, Fe-00331
- Tricarbonyl(octafluoro-2-cyclohexen-1,4-ylene)iron, *see* Fe-00331
- Tricarbonyl[(1,2,5- η)-octahydropentaborato(3-)-*H*²]ferrate(1-), Fe-00025
- Tricarbonyl[(*O*,2,3,4- η)-4-phenyl-3-buten-2-one]iron, Fe-01025
- Tricarbonyl[(3,4,5,6- η)-1-oxacyclohexa-3,5-dien-2-one]iron, *see* Fe-00253
- Tricarbonyl[(2,3,4,5- η)-oxepin]iron, Fe-00356
- Tricarbonyl[(1,3,4,5- η)-2-oxo-4-cycloheptene-1,3-diyl]iron, Fe-00537
- Tricarbonyl[(1,3,4,5- η)-7-oxo-4-cycloheptene-1,3-diyl]iron, Fe-00536
- Tricarbonyl[η^4 -2-(oxoethylidene)-1,3-propanediyl]iron, Fe-00273
- Tricarbonyl[(1,2,3,6- η)-6-oxo-2-hexene-1,6-diyl]iron, Fe-00406
- Tricarbonyl[(1,2,3- η)-5-oxo-2-hexenyl-*O*]iron(1+), Fe-00423
- Tricarbonyl[η^4 -2-(2-oxo-2-phenylethylidene)-1,3-propanediyl]iron, Fe-01154
- Tricarbonyl[η^4 -2-(2-oxopropylidene)-1,3-propanediyl]iron, *see* Fe-00395
- Tricarbonyl[(2,3,4,5- η)-2,4-pentadienal]iron, Fe-00274
- Tricarbonyl[(1,2,3,4- η)-1,3-pentadiene]iron, Fe-00302
- Tricarbonyl[(2,3,4,5- η)-2,4-pentadienoic acid]iron, Fe-00277
- Tricarbonyl[(2,3,4,5- η)-2,4-pentadien-1-ol]iron, Fe-00307
- Tricarbonyl(2,4-pentadienophenone)iron, *see* Fe-01156
- Tricarbonyl(η^5 -2,4-pentadienyl)iron(1+), Fe-00292
- Tricarbonyl[(5-pentafluorophenyl)-1,3-cyclopentadiene]iron, Fe-01138
- Tricarbonyl[η^4 -pentahydrodicarbapentaborato(2-)]iron, Fe-00023
- Tricarbonyl[1-[(2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]ethanone]iron, *see* Fe-01347
- Tricarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-01087
- Tricarbonyl(2,2,3,4,5-pentamethyl-2*H*-pyrrole)iron, Fe-00957
- Tricarbonyl[(2,3,4,5- η)-1,2,3,4,5-pentaphenylarsole]iron, Fe-02121
- Tricarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentaphenyl-1*H*-borole]iron, Fe-02122
- Tricarbonyl[(2,3,4,5- η)-1,2,3,4,5-pentaphenylphosphole]iron, Fe-02124
- Tricarbonyl[(2,3,4,5- η)-1,2,3,4,5-pentaphenylphosphole oxide]iron, Fe-02125
- Tricarbonyl[(1,2,3,5- η)-2-pentene-1,5-diyl]iron, Fe-00303
- Tricarbonyl(1-phenyl-1,3-butadiene)iron, *see* Fe-01022
- Tricarbonyl[(*O*,1,2,3- η)-1-phenyl-2-buten-1-one]iron, Fe-01026
- Tricarbonyl(phenylcyclobutadiene)iron, Fe-01006
- Tricarbonyl[(1,2,3,4- η)-7-phenyl-1,3,5-cycloheptatriene]iron, Fe-01387
- Tricarbonyl(1-phenyl-1,3-cyclohexadiene)iron, Fe-01310
- Tricarbonyl(2-phenyl-1,3-cyclohexadiene)iron, Fe-01311
- Tricarbonyl(5-phenyl-1,3-cyclohexadiene)iron, Fe-01312
- Tricarbonyl[(1,2,3,8- η)-1-phenyl-1,3,5,7-cyclooctatetraene]iron, Fe-01475
- Tricarbonyl[1,2-phenylenebis(dimethylarsine)-*As,As'*]iron, Fe-01090
- Tricarbonyl(phenylferrocene)chromium, Fe-01600
- Tricarbonyl[(2,3,4,5- η)-7-phenyl-2,4,6-heptatrienal]iron, Fe-01388
- Tricarbonyl[(4,5,6,7- η)-7-phenyl-2,4,6-heptatrienal]iron, Fe-01389
- Tricarbonyl[(3,4,5,6- η)-6-phenyl-3,5-hexadien-2-one]iron, Fe-01313
- Tricarbonyl[(2,3,4,5- η)-5-phenyl-2,4-pentadienal]iron, Fe-01155
- Tricarbonyl[(2,3,4,5- η)-5-phenyl-2,4-pentadienenitrile]iron, Fe-01147
- Tricarbonyl[(2,3,4,5- η)-5-phenyl-2,4-pentadienoic acid]iron, Fe-01159
- Tricarbonyl[(2,3,4,5- η)-1-phenyl-2,4-pentadien-1-one]iron, Fe-01156
- Tricarbonyl[(*O*,1,2,3- η)-3-phenyl-2-propenal]iron, Fe-00834
- Tricarbonyl[(2,3- η)-1-phenyl-2-propen-1-one]iron, Fe-00835
- Tricarbonyl[(*O*,1,2,3- η)-1-phenyl-2-propen-1-one]iron, *see* Fe-00835
- Tricarbonyl[η^4 -*N*-(3-phenyl-2-propenylidene)benzenamine]iron, Fe-01531
- Tricarbonyl[η^4 -*N*-(3-phenyl-2-propenylidene)methanamine]iron, Fe-01040
- Tricarbonyl[1-(phenylsulfinyl)-1,3-butadiene]iron, Fe-01029
- Tricarbonyl[1-(phenylsulfinyl)-2,3-dimethyl-1,3-butadiene]iron, Fe-01334
- Tricarbonyl[1-(phenylsulfonyl)-2,3-dimethyl-1,3-butadiene]iron, Fe-01335
- Tricarbonyl(precalciferol₂)iron, Fe-02046
- Tricarbonyl[(*S*,1,2,3- η)-2-propenethial]iron, Fe-00113
- Tricarbonyl(η^3 -2-propenyl)ferrate(1-), Fe-00123
- Tricarbonyl(η^3 -2-propenyl)iron, Fe-00124
- Tricarbonyl(η^3 -2-propenyl)[(triphenylphosphine)gold]iron, Fe-01821

- Tricarbonyl[(3,4,5,6- η)-2H-pyran-2-one]iron, Fe-00253
 Tricarbonyl[(3,4,5,6- η)-1(2H)-pyridinecarboxylic acid]iron, Fe-00373
 Tricarbonyl[(5,6,10,19- η)-9,10-secoergosta-5,7,10(19),22-tetraen-3-ol]iron, *see* Fe-02045
 Tricarbonyl[(6,7,8,9- η)-9,10-secoergosta-5(10),6,8,22-tetraen-3-ol]iron, *see* Fe-02046
 Tricarbonyl[(6,7,8,9- η)-9,10-secoergosta-5(10),6,8,22-tetraen-3-ol]iron, *see* Fe-02047
 Tricarbonyl[(2,3,4,5- η)-1-sila-2,4-cyclohexadiene]iron, Fe-00304
 Tricarbonyl(spiro[2.4]hepta-4,6-diene)iron, Fe-00529
 Tricarbonyl[(1,2,3,4- η)-spiro[4.4]nona-1,3-diene]iron, Fe-00906
 Tricarbonyl(tachysterol₂)iron, Fe-02047
 Tricarbonyl[(1,2,3,4- η)-tetraborane(8)]iron, Fe-00024
 Tricarbonyl[(2,3,4,5- η)-2,3,4,5-tetrachloro-2,4-cyclopentadien-1-one]iron, Fe-00237
 Tricarbonyl[(3a,4,7,7a- η)-2,3,5,6-tetrahydro-1H-indene]iron, Fe-00907
 Tricarbonyl[(3a,6,7,7a- η)-2,3,4,5-tetrahydro-1H-indene]iron, Fe-00908
 Tricarbonyl[(4,5,6,7- η)-2,3,3a,7a-tetrahydro-1H-indene]iron, Fe-00909
 Tricarbonyl[(4,5,6,7- η)-2,3,3a,7a-tetrahydro-1H-inden-1-one]iron, Fe-00867
 Tricarbonyl(η^4 -1,2,3,4-tetraiodo-1,3-cyclobutadiene)iron, Fe-00145
 Tricarbonyl[2,3,5,6-tetrakis(methylene)-7-oxabicyclo[2.2.1]heptane]iron, Fe-01027
 Tricarbonyl[(1,2,3,6- η)-1,2,3,4-tetramethyl-5,6-bis(trifluoromethyl)benzene]iron, Fe-01303
 Tricarbonyl[(1,2,3,4- η)-1,2,3,4-tetramethyl-1,3-cyclobutadiene]iron, Fe-00757
 Tricarbonyl[(2,3,5,6- η)-2,3,5,6-tetramethyl-2,5-cyclohexadiene-1,4-dione]iron, Fe-01058
 Tricarbonyl[(1,2,3,4- η)-5,5,6,6-tetramethyl-1,3-cyclohexadiene]iron, Fe-01105
 Tricarbonyl(2,2,6,6-tetramethyl-3,6-diaza-3,5-octadiene)iron, *see* Fe-01119
 Tricarbonyl[(3,4,5,6- η)-1,1,2,2-tetramethyl-3,6-diphenyl-1,2-disilacyclohexa-3,5-diene]iron, Fe-01806
 Tricarbonyl(1,2,3,4-tetraphenyl-1,3-cyclobutadiene)iron, Fe-02026
 Tricarbonyl[(2,3,4,5- η)-2,3,4,5-tetraphenyl-2,4-cyclopentadien-1-one]iron, Fe-02050
 Tricarbonyl[(2,3,4,5- η)-tetraphenylthiophene 1,1'-dioxide]iron, Fe-02027
 Tricarbonyl[(2,3,4,5- η)-thiophene 1,1-dioxide]iron, Fe-00164
 Tricarbonyl[(2,3,4,5- η)-thiophene 1-oxide]iron, Fe-00162
 Tricarbonyl(2,2,2-tricarbonylferraindene)iron, *see* Fe-01140
 Tricarbonyl(1,1,1-tricarbonyl-2-phenylferraindene)iron, *see* Fe-01646
 Tricarbonyl(tricyclo[4.3.1.0^{1,6}]deca-2,4-diene)iron, *see* Fe-01057
 Tricarbonyl[(2,3,4,5- η)-tricyclo[4.3.1.0^{1,6}]deca-2,4-diene]iron, Fe-01057
 Tri- μ -carbonyltridecacarbonyl- μ_6 -carbonhexaferate(2-), *see* Fe-01468
 Tricarbonyl(2,2,4-triethyl-5-methyl-2H-imidazole)iron, Fe-01114
 Tricarbonyl(η^4 -1,2,3-triiodo-1,3-cyclobutadiene)iron, Fe-00146
 Tricarbonyltriodoferrate(1-), Fe-00016
 Tricarbonyl[(1,2,3,4- η)-1,2,3-trimethyl-1,3-cyclobutadiene]iron, Fe-00579
 Tricarbonyl[(1,2,3,4- η)-N,N,N-trimethyl-1,3-cyclobutadiene-1-methanaminiumiron(1+) iodide, *in* Fe-00602
 Tricarbonyl[(1,2,3,4- η)-2-trimethylsilyl-1,3-cyclohexadiene]iron, Fe-00967
 Tricarbonyl[(1,2,3,4,5- η)-1-trimethylsilyl-2,4-cyclohexadien-1-yl]iron(1+), Fe-00960
 Tricarbonyl[(1,2,3,4,5- η)-2-trimethylsilyl-2,4-cyclohexadien-1-yl]iron(1+), Fe-00961
 Tricarbonyl[(1,2,3,4,5- η)-3-trimethylsilyl-2,4-cyclohexadien-1-yl]iron(1+), Fe-00962
 Tricarbonyl[(1,2,3,4- η)-2,3,4-triphenyl-1,3-butadien-1-one]iron, Fe-01863
 Tricarbonyl(tropone)iron, *see* Fe-00494
 Tri- μ -carbonylundecacarbonyl- μ -hydro- μ_5 -nitridopentairon, Fe-01135
 Tricarbonyl(vinylcyclobutadiene)iron, Fe-00353
 1,2,3-Trichloroferrocene, Fe-00500
 2,2,2-Trichloro-1-ferrocenylethanol, *see* Fe-00878
 (2,2,2-Trichloro-1-hydroxyethyl)ferrocene, Fe-00878
 Tridecacarbonylbis[μ (diphenylphosphino)]irontriruthenium, *see* Fe-02120
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 Undecacarbonyltriferrate(2-), *see* Fe-00652
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 σ -Vinyl- π -cyclopentadienyliron dicarbonyl, *see* Fe-00385
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- BrFeN₂O₂**
Bromodinitrosyliron, *in* Fe-00002
- BrFeN₃O₃**
Bromotrinitrosyliron, Fe-00001
- Br₂Fe₂N₄O₄**
Di- μ -bromotetranitrosyldiiron, Fe-00002
- CF₁₂FeOP₄**
Carbonyltetrakis(phosphorous trifluoride-*P*)iron, Fe-00003
- C₂Cl₂FeO₂**
Dicarbonyldichloroiron, Fe-00004
- C₂F₆Fe₂N₄O₄S₂**
Tetranitrosylbis(trifluoromethanethiolato)diiron, Fe-00005
- C₂F₉FeO₂P₃**
Dicarbonyltris(phosphorous trifluoride)iron, Fe-00006
- C₂FeN₂O₄**
Dicarbonyldinitrosyliron, Fe-00007
- C₂H₆FeI₂O₂P₂**
Dicarbonyldiiodobis(phosphine)iron, Fe-00008
- C₂H₆Fe₂N₄O₄S₂**
▷ Bis(μ -methanethiolato)tetranitrosyldiiron, Fe-00009
- C₃BrFeHgNO₄**
(Bromomercurio)tricarbonylnitrosyliron, Fe-00010
- C₃ClFeHgNO₄**
Tricarbonyl(chloromercurio)nitrosyliron, Fe-00011
- C₃Cl₃FeGeNO₄**
Tricarbonylnitrosyl(trichlorogermyl)iron, Fe-00012
- C₃Cl₃FeNO₄Sn**
Tricarbonylnitrosyl(trichlorostannyl)iron, Fe-00013
- C₃F₆FeO₃P₂**
Tricarbonylbis(phosphorous trifluoride)iron, Fe-00014
- C₃FeHgINO₄**
Tricarbonyl(iodomercurio)nitrosyliron, Fe-00015
- C₃FeI₃O₃[⊖]**
Tricarbonyltriiodoferrate(1-), Fe-00016
- C₃FeKNO₄**
Tricarbonylnitrosylferrate(1-); K salt, *in* Fe-00017
- C₃FeK₂N₂O₃**
Dicarbonyl(cyano-*C*)nitrosylferrate(2-); Di-K salt, *in* Fe-00018
- C₃FeK₃N₃O₂**
Carbonylbis(cyano-*C*)nitrosylferrate(3-); Tri-K salt, *in* Fe-00019
- C₃FeNNaO₄**
Tricarbonylnitrosylferrate(1-); Na salt, *in* Fe-00017
- C₃FeNO₄[⊖]**
Tricarbonylnitrosylferrate(1-), Fe-00017
- C₃FeNO₄Tl**
Tricarbonylnitrosylferrate(1-); Tl(1+) salt, *in* Fe-00017
- C₃FeN₂O₃^{⊖⊖}**
Dicarbonyl(cyano-*C*)nitrosylferrate(2-), Fe-00018
- C₃FeN₃O₂^{⊖⊖⊖}**
Carbonylbis(cyano-*C*)nitrosylferrate(3-), Fe-00019
- C₃HFeNO₄**
▷ Hydridotricarbonylnitrosyliron, Fe-00020
- C₃H₃F₁₂FeNP₄**
Tetrakis(phosphorous trifluoride)[(2,3- η)-2-propenenitrile]iron, Fe-00021
- C₃H₃FeI₂O₃P**
Tricarbonyldiiodo(phosphine)iron, Fe-00022
- C₃H₅B₃FeO₃**
Tricarbonyl[η^4 -pentahydrodicarbapentaborato(2-)]iron, Fe-00023
- C₃H₈B₄FeO₃**
Tricarbonyl[(1,2,3,4- η)-tetraborane(8)]iron, Fe-00024
- C₃H₈B₅FeO₃[⊖]**
Tricarbonyl[(1,2,5- η)-octahydropentaborato(3-)-*H*²]-ferrate(1-), Fe-00025
- C₃H₉B₅FeO₃**
▷ Tricarbonyl[nonahydropentaborate(2-)]iron, Fe-00026
- C₄As₂F₁₂Fe₂N₄O₄**
Bis[μ -[bis(trifluoromethyl)arsino]]tetranitrosyldiiron, Fe-00027
- C₄Br₂FeHg₂O₄**
Bis(bromomercurio)tetracarbonyliron, Fe-00028
- C₄Br₂FeO₄**
Dibromotetracarbonyliron, Fe-00029
- C₄Cl₂FeHg₂O₄**
Tetracarbonylbis(chloromercury)iron, Fe-00030
- C₄Cl₂FeO₄**
Tetracarbonyldichloroiron, Fe-00031
- C₄Cl₃FeO₄P**
Tetracarbonyl(phosphorous trichloride)iron, Fe-00032
- C₄Cl₆FeGe₂O₄**
Tetracarbonylbis(trichlorogermyl)iron, Fe-00033
- C₄Cl₆FeO₄Si₂**
Tetracarbonylbis(trichlorosilyl)iron, Fe-00034
- C₄Cl₆FeO₄Sn₂**
Tetracarbonylbis(trichlorostannyl)iron, Fe-00035
- C₄F₃FeO₄P**
Tetracarbonyl(phosphorous trifluoride)iron, Fe-00036
- C₄F₁₂Fe₂N₄O₄P₂**
Bis[μ -[bis(trifluoromethyl)phosphine]]-tetranitrosyldiiron, Fe-00037
- C₄FeHgO₄**
Tetracarbonylmercurioiron, Fe-00038
- C₄FeI₂O₄**
Tetracarbonyldiiodoiron, Fe-00039
- C₄FeK₂O₄**
Tetracarbonylferrate(2-); Di-K salt, *in* Fe-00040
- C₄FeNa₂O₄**
Tetracarbonylferrate(2-); Di-Na salt, *in* Fe-00040
- C₄FeO₄^{⊖⊖}**
Tetracarbonylferrate(2-), Fe-00040
- C₄FeO₄Zn**
Tetracarbonyl(zinc)iron, Fe-00041
- C₄HFeNaO₄**
Tetracarbonylhydroferrate(1-); Na salt, *in* Fe-00042
- C₄HFeO₄[⊖]**
Tetracarbonylhydroferrate(1-), Fe-00042
- C₄H₂FeO₄**
Tetracarbonyldihydroiron, Fe-00043
- C₄H₃FeO₄P**
Tetracarbonyl(phosphine)iron, Fe-00044
- C₄H₄FeGeO₄**
Tetracarbonylgermylhydroiron, Fe-00045
- C₄H₄FeNO₃**
Tricarbonyl(methylamino)iron, *in* Fe-00314

- C₄H₆F₉FeOP₃**
[(*O*,1,2,3- η)-2-Butenal]tris(phosphorous trifluoride)iron, Fe-00046
[(*O*,2,3,4- η)-3-Buten-2-one]tris(phosphorous trifluoride)iron, Fe-00047
- C₄H₆F₉FeP₃**
(η^4 -1,3-Butadiene)tris(phosphorous trifluoride)iron, Fe-00048
(η^4 -2-Methylene-1,3-propanediyl)tris(phosphorous trifluoride)iron, Fe-00049
- C₄H₆FeGe₂O₄**
Tetracarbonyldigermyliron, Fe-00050
- C₄H₆FeN₄O₂**
Bis(isocyanomethane)dinitrosyliron, Fe-00051
- C₄H₆FeO₄Si₂**
Tetracarbonyldisilyliron, Fe-00052
- C₄H₉FeN₂O₆P**
Carbonyldinitrosyl(trimethyl phosphite-*P*)iron, Fe-00053
- C₄H₁₀Fe₂N₄O₄S₂**
Bis(μ -ethanethiolato)tetranitrosyldiiron, Fe-00054
- C₄H₁₀Fe₂N₄O₄Se₂**
Bis(μ -ethaneselenolato)tetranitrosyldiiron, Fe-00055
- C₄H₁₁B₇FeO₄**
Tetracarbonyl(η^2 -heptaborane(11))iron, Fe-00056
- C₄H₁₂As₂Fe₂N₄O₄**
Bis[μ -(dimethylarsino)]tetranitrosyldiiron, Fe-00057
- C₄H₁₂B₇FeO₄[⊖]**
Tetracarbonyl[η^2 -dodecahydroheptaborato(1-)]ferrate(1-), Fe-00058
- C₄H₁₂Fe₂N₄O₄P₂**
Bis[μ -(dimethylphosphino)]tetranitrosyldiiron, Fe-00059
- C₄H₂₂B₁₈CsF₁₂**
Bis[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]ferrate(1-); Cs salt, *in* Fe-00060
- C₄H₂₂B₁₈Fe[⊖]**
Bis[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]ferrate(1-), Fe-00060
Bis[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]ferrate(2-), Fe-00061
- C₄H₂₄B₂₀Fe^{⊖⊖}**
Bis[(7,8,9,10,11,12- η)-dodecahydro-7,9-dicarbododecaborato(2-)]ferrate(2-), Fe-00062
- C₅F₃FeIO₄**
Tetracarbonyliodo(trifluoromethyl)iron, Fe-00063
- C₅F₅FeIO₃**
Tricarbonyliodo(pentafluoroethyl)iron, Fe-00064
- C₅FeNO₄[⊖]**
Tetracarbonyl(cyano-*C*)ferrate(1-), Fe-00065
- C₅FeNO₄Tl**
Tetracarbonyl(cyano-*C*)ferrate(1-); Tl(1+) salt, *in* Fe-00065
- C₅FeN₆Na₂O**
▷Sodium nitroferricyanide, *in* Fe-00066
- C₅FeN₆O^{⊖⊖}**
Pentakis(cyano-*C*)nitrosylferrate(2-), Fe-00066
- C₅FeO₄S**
(Carbonothioyl)tetracarbonyliron, Fe-00067
- C₅FeO₄S₂**
(Carbon disulfide)tetracarbonyliron, Fe-00068
- C₅FeO₅**
▷Iron carbonyl, Fe-00069
- C₅HFeO₅[⊖]**
Tetracarbonylformylferrate(1-), Fe-00070
- C₅H₃B₅FeO₅**
Tricarbonyl[(2,3,4,5- η)-dicarbonyltrihydropentaborato(2-)]iron, Fe-00071
- C₅H₃FeI₂NO₃**
Tricarbonyldiiodo(isocyanomethane)iron, Fe-00072
- C₅H₃FeO₄[⊖]**
Tetracarbonylmethylferrate(1-), Fe-00073
- C₅H₄BrFeNO₃**
(η^3 -2-Bromo-2-propenyl)dicarbonylnitrosyliron, Fe-00074
- C₅H₄ClFeNO₃**
Dicarbonyl(η^3 -1-chloro-2-propenyl)nitrosyliron, Fe-00075
Dicarbonyl(η^3 -2-chloro-2-propenyl)nitrosyliron, Fe-00076
- C₅H₄FeN₂O₄**
Tetracarbonyl(diaminomethylene)iron, Fe-00077
- C₅H₅F₆FeKP₂**
(η^5 -2,4-Cyclopentadien-1-yl)bis(phosphorous trifluoride)ferrate(1-); K salt, *in* Fe-00078
- C₅H₅F₆FeP₂[⊖]**
(η^5 -2,4-Cyclopentadien-1-yl)bis(phosphorous trifluoride)ferrate(1-), Fe-00078
- C₅H₅FeI₂NO**
(η^5 -2,4-Cyclopentadien-1-yl)diiodonitrosyliron, Fe-00079
- C₅H₅FeNO₃**
Dicarbonylnitrosyl(η^3 -2-propenyl)iron, Fe-00080
- C₅H₆B₄FeO₃**
Tricarbonyl[(2,3,4,5,6- η)-hexahydro-2,3-dicarbahexaborato(2-)]iron, Fe-00081
Tricarbonyl[(2,3,4,5,6- η)-hexahydro-2,4-dicarbahexaborato(2-)]iron, Fe-00082
- C₅H₆F₆FeOP₂**
(η^4 -1,3-Butadiene)carbonylbis(phosphorous trifluoride)iron, Fe-00083
- C₅H₆FeN₄O₅**
Tricarbonyl(1,4-dimethyl-1,3-tetrazadiene-*N*¹,*N*⁴)iron, Fe-00084
- C₅H₇B₃FeO₃**
Tricarbonyl[(1,2,3,4,5- η)-heptahydro-1,2-dicarbapentaborato(2-)]iron, Fe-00085
- C₅H₇B₅FeO₃**
Tricarbonyl[(3,4,5,6,7- η)-heptahydro-3,5-dicarbapentaborato(2-)]iron, Fe-00086
- C₅H₇FeN₂O₄**
Dinitrosyl(2,4-pentanedionato)iron, Fe-00087
- C₅H₁₅B₅Fe**
(η^5 -2,4-Cyclopentadien-1-yl)[η^5 -decahydropentaborato(1-)]iron, Fe-00088
(η^5 -2,4-Cyclopentadien-1-yl)[η^5 -decahydropentaborato(1-)]iron, Fe-00089
- C₅H₂₀B₁₀Fe**
(η^5 -2,4-Cyclopentadien-1-yl)[η^5 -pentadecahydrodecaborato(2-)]iron, Fe-00090
- C₆Br₂Fe₂O₆**
Di- μ -bromohexacarbonyldiiron, Fe-00091
- C₆F₄FeO₄**
Tetracarbonyl(tetrafluoroethylene)iron, Fe-00092
- C₆F₅FeIO₄**
Tetracarbonyliodo(pentafluoroethyl)iron, Fe-00093
- C₆F₆FeO₄**
Tetracarbonylbis(trifluoromethyl)iron, Fe-00094
- C₆FeO₆^{⊖⊖}**
Hexacarbonyliron(2+), Fe-00095
- C₆Fe₂HgN₂O₈**
Hexacarbonyl(mercury)dinitrosyldiiron, Fe-00096
- C₆Fe₂I₂O₆**
Hexacarbonyldi- μ -iododiiron, Fe-00097
- C₆Fe₂K₂O₆S₂**
Hexacarbonyldi- μ -thioxodiferrate(2-); Di-K salt, *in* Fe-00098
- C₆Fe₂Li₂O₆S₂**
Hexacarbonyldi- μ -thioxodiferrate(2-); Di-Li salt, *in* Fe-00098

$C_6Fe_2O_6S_2^{\ominus\ominus}$ Hexacarbonyldi- μ -thioxodiferrate(2-), Fe-00098

Hexacarbonyldithioxodiiron, Fe-00099

 $C_6Fe_2O_6Se_2$ Hexacarbonyl[μ -(diseleno-*Se, Se':Se, Se'*)diiron, Fe-00100 **$C_6Fe_2O_6Te_2$** Hexacarbonyl[μ -(ditelluro-*Te, Te':Te, Te'*)diiron, Fe-00101 **$C_6H_2FeNO_4^{\ominus}$**

Tetracarbonyl(cyanomethyl)ferrate(1-), Fe-00102

 $C_6H_2FeNO_4Ti$ Tetracarbonyl(cyanomethyl)ferrate(1-); Ti(1+) salt, *in* Fe-00102 **$C_6H_2Fe_2O_6S_2$** Hexacarbonyldi- μ -mercaptodiiron, Fe-00103 **$C_6H_2Fe_2O_6Se_2$** Hexacarbonyldi- μ -selenyldiiron, Fe-00104 **$C_6H_3BrFeO_4$**

(Bromoethylene)tetracarbonyliron, Fe-00105

 $C_6H_3ClFeO_4$

Tetracarbonyl(chloroethylene)iron, Fe-00106

 $C_6H_3FeNO_4$

Tetracarbonyl(isocyanomethane)iron, Fe-00107

 $C_6H_3FeO_5^{\ominus}$

Acetyltetracarbonylferrate(1-), Fe-00108

 $C_6H_3FeO_6^{\ominus}$

Tetracarbonyl(methoxycarbonyl)ferrate(1-), Fe-00109

 $C_6H_4Br_2FeO_3$ Bromo(η^3 -1-bromo-2-propenyl)tricarbonyliron, Fe-00110Bromo(η^3 -2-bromo-2-propenyl)tricarbonyliron, Fe-00111 **$C_6H_4F_6FeNO_3P$** Dicarbonyl(η^4 -1,3-cyclobutadiene)nitrosyliron(1+); Hexafluorophosphate, *in* Fe-00112 **$C_6H_4FeNO_3^{\oplus}$** Dicarbonyl(η^4 -1,3-cyclobutadiene)nitrosyliron(1+), Fe-00112 **$C_6H_4FeO_3S$** Tricarbonyl[(*S*,1,2,3- η)-2-propenethial]iron, Fe-00113 **$C_6H_4FeO_4$**

Tetracarbonyl(ethylene)iron, Fe-00114

 $C_6H_4FeO_5$ Tetracarbonyl(η^2 -ethenol)iron, Fe-00115 **$C_6H_4Fe_2N_2O_6$** Di- μ -amido hexacarbonyldiiron, Fe-00116 **$C_6H_5BrFeO_3$** Bromotricarbonyl(η^3 -2-propenyl)iron, Fe-00117 **$C_6H_5ClFeO_3$** Tricarbonylchloro(η^3 -2-propenyl)iron, Fe-00118 **$C_6H_5F_3FeIOP$** Carbonyl(η^5 -2,4-cyclopentadien-1-yl)iodo(phosphorous trifluoride)iron, Fe-00119 **$C_6H_5FeIO_3$** Tricarbonyliodo(η^3 -2-propenyl)iron, Fe-00120 **$C_6H_5FeNO_2$** Carbonyl(η^5 -2,4-cyclopentadien-1-yl)nitrosyliron, Fe-00121 **$C_6H_5FeNO_3$** (η^3 -2-Buten-1-yloic acid)dicarbonylnitrosyliron, Fe-00122 **$C_6H_5FeNaO_3$** Tricarbonyl(η^3 -2-propenyl)ferrate(1-); Na salt, *in* Fe-00123 **$C_6H_5FeNaO_4$** Tetracarbonylethylferrate(1-); Na salt, *in* Fe-00125 **$C_6H_5FeO_3^{\ominus}$** Tricarbonyl(η^3 -2-propenyl)ferrate(1-), Fe-00123Tricarbonyl(η^3 -2-propenyl)iron, Fe-00124 **$C_6H_5FeO_4^{\ominus}$**

Tetracarbonylethylferrate(1-), Fe-00125

 $C_6H_5FeO_5^{\ominus}$

Tetracarbonyl(methoxymethyl)ferrate(1-), Fe-00126

 $C_6H_6BFeNO_4$ Tetracarbonyl[*N,N*-dimethylboranaminato(2-)-*B*]iron, Fe-00127 **$C_6H_6F_3FeO_2P$** (η^4 -1,3-Butadiene)dicarbonyl(phosphorous trifluoride)iron, Fe-00128 **$C_6H_6F_6FeP_2$** (η^6 -Benzene)bis(phosphorous trifluoride)iron, Fe-00129 **$C_6H_6FeHg_2O_4$**

Tetracarbonylbis(methylmercurio)iron, Fe-00130

 $C_6H_6FeI_2N_2O_2$

Dicarbonyldiiodobis(isocyanomethane)iron, Fe-00131

 $C_6H_7FeNO_3$ [(1,2,3- η)-2-Butenyl]dicarbonylnitrosyliron, Fe-00132Dicarbonyl[(1,2,3- η)-2-methyl-2-propenyl]nitrosyliron, Fe-00133 **$C_6H_9AuFeNO_4P$**

Tricarbonylnitrosyl[(trimethylphosphine)aurio]iron, Fe-00134

 $C_6H_9AuFeNO_7P$ Tricarbonylnitrosyl[(trimethyl phosphite-*P*)aurio]iron, Fe-00135 **$C_6H_9FeI_2O_3P$**

Tricarbonyldiiodo(trimethylphosphine)iron, Fe-00136

 $C_6H_9FeNO_4Pb$

Tricarbonylnitrosyl(trimethylplumbyl)iron, Fe-00137

 $C_6H_{10}FeN_4O_3$

Carbonyl(1,3-dimethyl-2-imidazolidinylidene)-dinitrosyliron, Fe-00138

 $C_6H_{11}FeN_3O_4$

Carbonyl[(dimethylamino)ethoxymethylene]dinitrosyliron, Fe-00139

 $C_6H_{12}FeN_3OS_4$ Bis(dimethylcarbamodithioato-*S,S'*)nitrosyliron, Fe-00140 **$C_6H_{15}B_9Fe^{\ominus}$** (η^5 -2,4-Cyclopentadien-1-yl)[η^6 -decahydrocarbadeborato(2-)]ferrate(1-), Fe-00141 **$C_6H_{18}Cl_2FeP_2$**

Dichlorobis(trimethylphosphine)iron, Fe-00142

 $C_6H_{18}FeN_2O_8P_2$ Dinitrosylbis(trimethyl phosphite-*P*)iron, Fe-00143 **$C_7F_7FeIO_4$**

Tetracarbonyl(heptafluoropropyl)iodoiron, Fe-00144

 $C_7FeI_4O_3$ Tricarbonyl(η^4 -1,2,3,4-tetraiodo-1,3-cyclobutadiene)-iron, Fe-00145 **$C_7HFeI_3O_3$** Tricarbonyl(η^4 -1,2,3-triiodo-1,3-cyclobutadiene)iron, Fe-00146 **$C_7H_2FeI_2O_3$** Tricarbonyl(η^4 -1,2-diiodo-1,3-cyclobutadiene)iron, Fe-00147Tricarbonyl(η^4 -1,3-diiodo-1,3-cyclobutadiene)iron, Fe-00148 **$C_7H_3BrFeO_3$** (η^4 -1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149 **$C_7H_3ClFeHgO_3$** Tricarbonyl[η^4 -(chloromercurio-1,3-cyclobutadiene)]iron, Fe-00150 **$C_7H_3ClFeO_3$** Tricarbonyl(η^4 -1-chloro-1,3-cyclobutadiene)iron, Fe-00151 **$C_7H_3ClFeO_5S$** Tricarbonyl(η^4 -1,3-cyclobutadiene-1-sulfonic acid)iron; Chloride, *in* Fe-00167

- C₇H₃FeIO₃**
Tricarbonyl(η^4 -1-iodo-1,3-cyclobutadiene)iron, Fe-00152
- C₇H₃FeLiO₃**
Tricarbonyl[η^4 -(1-lithio-1,3-cyclobutadiene)]iron, Fe-00153
- C₇H₃FeNO₄**
Tetracarbonyl[(2,3- η)-2-propenenitrile]iron, Fe-00154
- C₇H₄Br₂FeO₂**
Bromo(η^5 -1-bromo-2,4-cyclopentadien-1-yl)-dicarbonyliron, Fe-00155
- C₇H₄Cl₂FeO₃**
Tricarbonyl(η^4 -1,2-dichloro-1,3-butadiene)iron, Fe-00156
Tricarbonyl(η^4 -1,4-dichloro-1,3-butadiene)iron, Fe-00157
Tricarbonyl(η^4 -2,4-dichloro-1,3-butadiene)iron, Fe-00158
- C₇H₄FeI₂O₂**
Dicarbonyliodo(η^5 -1-iodo-2,4-cyclopentadien-1-yl)iron, Fe-00159
- C₇H₄FeO₃**
Tricarbonyl(η^4 -1,3-cyclobutadiene)iron, Fe-00160
- C₇H₄FeO₃S**
Tricarbonyl(η^4 -1,3-cyclobutadiene-1-thiol)iron, Fe-00161
- C₇H₄FeO₄S**
Tricarbonyl[(2,3,4,5- η)-thiophene 1-oxide]iron, Fe-00162
- C₇H₄FeO₅**
Tetracarbonyl[(2,3- η)-2-propenal]iron, Fe-00163
- C₇H₄FeO₅S**
Tricarbonyl[(2,3,4,5- η)-thiophene 1,1-dioxide]iron, Fe-00164
- C₇H₄FeO₆**
Tetracarbonyl[(2,3- η)-2-propenoic acid]iron, Fe-00165
- C₇H₄FeO₆S**
Tetracarbonyl[(3,4- η)-2*H*-thiete 1,1-dioxide]iron, Fe-00166
Tricarbonyl(η^4 -1,3-cyclobutadiene-1-sulfonic acid)iron, Fe-00167
- C₇H₅AsBr₂FeO₂**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(dibromoarsino)-iron, Fe-00168
- C₇H₅BCl₂FeO₂**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-dichloroboraneiron, Fe-00169
- C₇H₅BF₄FeO₄**
Tetracarbonyl(η^3 -2-propenyl)iron(1+); Tetrafluoroborate, *in* Fe-00195
- C₇H₅BiBr₂FeO₂**
(Dibromobismuthino)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00170
- C₇H₅BrFeHgO₂**
(Bromomercury)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-iron, Fe-00171
- C₇H₅BrFeMgO₂**
Bromo[dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron]-magnesium, Fe-00172
- C₇H₅BrFeO₂**
Bromodicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00173
- C₇H₅BrFeO₃**
(η^4 -1-Bromo-1,3-butadiene)tricarbonyliron, Fe-00174
(η^4 -2-Bromo-1,3-butadiene)tricarbonyliron, Fe-00175
- C₇H₅BrFeO₅**
Bromotricarbonyl[(1,2,3- η)-2-buten-1-yloic acid]iron, Fe-00176
- C₇H₅Br₂FeInO₂**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(dibromoindium)-iron, Fe-00177
- C₇H₅Br₂FeO₂Sb**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(dibromostibino)-iron, Fe-00178
- C₇H₅Br₃FeGeO₂**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(tribromogermyl)-iron, Fe-00179
- C₇H₅Br₃FeO₂Sn**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(tribromostannyl)-iron, Fe-00180
- C₇H₅ClFeHgO₂**
Dicarbonyl(chloromercury)(η^5 -2,4-cyclopentadien-1-yl)-iron, Fe-00181
- C₇H₅ClFeO₂**
Dicarbonylchloro(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00182
- C₇H₅ClFeO₃**
Dicarbonylchloro(η^5 -1-hydroxy-2,4-cyclopentadien-1-yl)-iron, Fe-00183
Tricarbonyl(η^4 -2-chloro-1,3-butadiene)iron, Fe-00184
Tricarbonyl(η^4 -1-chloro-1,3-butadiene)iron, Fe-00185
- C₇H₅Cl₃FeGeO₂**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trichlorogermyl)-iron, Fe-00186
- C₇H₅Cl₃FeO₂Si**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trichlorosilyl)-iron, Fe-00187
- C₇H₅Cl₃FeO₂Sn**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trichlorostannyl)iron, Fe-00188
- C₇H₅F₂FeO₂PS**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(difluorophosphinothioyl-*P*)iron, Fe-00189
- C₇H₅FeIO₂**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iodoiron, Fe-00190
- C₇H₅FeKO₂**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-); K salt, *in* Fe-00194
- C₇H₅FeLiO₂**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-); Li salt, *in* Fe-00194
- C₇H₅FeNO₃**
Tricarbonyl(η^4 -1,3-cyclobutadien-1-amine)iron, Fe-00191
- C₇H₅FeN₃O₂**
Azidodicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00192
- C₇H₅FeNaOS**
(Carbonothioyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)-ferrate(1-); Na salt, *in* Fe-00193
- C₇H₅FeNaO₂**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-); Na salt, *in* Fe-00194
- C₇H₅FeOS[⊖]**
(Carbonothioyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)-ferrate(1-), Fe-00193
- C₇H₅FeO₂[⊖]**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-), Fe-00194
- C₇H₅FeO₄[⊕]**
Tetracarbonyl(η^3 -2-propenyl)iron(1+), Fe-00195
- C₇H₆FeNNaO₂**
(η^4 -1,3-Butadiene)dicarbonyl(cyano-C)ferrate(1-); Na salt, *in* Fe-00196
- C₇H₆FeNO₂[⊖]**
(η^4 -1,3-Butadiene)dicarbonyl(cyano-C)ferrate(1-), Fe-00196
- C₇H₆FeNO₅[⊖]**
Tetracarbonyl[(dimethylamino)carbonyl]ferrate(1-), Fe-00197
- C₇H₆FeN₂O₃**
Tricarbonylbis(isocyanomethane)iron, Fe-00198
- C₇H₆FeN₄O₄**
Tetracarbonyl(1,4-dihydro-1,4-dimethyl-5*H*-tetrazol-5-ylidene)iron, Fe-00199
- C₇H₆FeO₂**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)hydroiron, Fe-00200

C₇H₆FeO₃

- ▷(η^4 -1,3-Butadiene)tricarbonyliron, Fe-00201
Tricarbonyl(η^4 -2-methylene-1,3-propanediyl)iron, Fe-00202

C₇H₆FeO₄

- (1,3-Butadien-1-ol)tricarbonyliron, Fe-00203
(1,3-Butadien-2-ol)tricarbonyliron, Fe-00204
[(*O*,2,3,4- η)-3-Buten-2-one]tricarbonyliron, Fe-00205
▷Tetracarbonyl[η^2 -propene]iron, Fe-00206

C₇H₆FeO₄S

- Tricarbonyl[(3,4- η)-2,5-dihydrothiophene
1-oxide-*O*]iron, Fe-00207

C₇H₇BrFeO₃

- Bromo[(1,2,3- η)-2-butenyl]tricarbonyliron, Fe-00208
Bromotricarbonyl[(1,2,3- η)-2-methyl-2-propenyl]iron, Fe-00209

C₇H₇BrFeO₄

- Bromotricarbonyl[(1,2,3- η)-2-methoxy-2-propenyl]iron,
Fe-00210

C₇H₇ClFeO₃

- (1,2,3- η)-2-Butenyltricarbonylchloroiron, Fe-00211
Tricarbonylchloro[(1,2,3- η)-2-methyl-2-propenyl]iron, Fe-00212

C₇H₇ClFeO₄

- Tricarbonylchloro[(1,2,3- η)-2-methoxy-2-propenyl]iron,
Fe-00213

C₇H₇FeIO₃

- [(1,2,3- η)-2-Butenyl]tricarbonyliodoiron, Fe-00214
Tricarbonyliodo[(1,2,3- η)-2-methyl-2-propenyl]iron, Fe-00215

C₇H₇FeIO₄

- Tricarbonyliodo[(1,2,3- η)-2-methoxy-2-propenyl]iron, Fe-00216

C₇H₇FeNO₃

- (η^3 -2-Buten-1-yloic acid)dicarbonylnitrosyliron; Me ester, *in*
Fe-00122
Dicarbonyl[(1,2,3- η)-2-cyclopenten-1-yl]nitrosyliron, Fe-00217

C₇H₇FeNO₄

- Tetracarbonyl[(dimethylamino)methylene]iron, Fe-00218

C₇H₈F₆FeNO₂P

- Amminedicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hex-
afluorophosphate, *in* Fe-00220

C₇H₈F₆FeP₂

- [(1,2,3,4,5,6- η)-Methylbenzene]bis(phosphorous
trifluoride)iron, Fe-00219

C₇H₈FeNO₂[⊕]

- Amminedicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+),
Fe-00220

C₇H₉AsFeO₄

- Tetracarbonyl(trimethylarsine)iron, Fe-00221

C₇H₉FeNO₄

- Tetracarbonyl(trimethylamine)iron, Fe-00222

C₇H₉FeO₄P

- Tetracarbonyl(trimethylphosphine)iron, Fe-00223

C₇H₉FeO₄Sb

- Tetracarbonyl(trimethylstibine)iron, Fe-00224

C₇H₉FeO₇P

- Tetracarbonyl(trimethyl phosphite-*P*)iron, Fe-00225

C₇H₁₁B₄Fe

- (η^5 -2,4-Cyclopentadien-1-yl)[(2,3,4,5,6- η)-hexahydro-
2,3-dicarbahexaborato(2-)]iron, Fe-00226

C₇H₁₂B₄Fe

- (η^5 -2,4-Cyclopentadien-1-yl)[(2,3,4,5,6- η)-heptahydro-
2,5-dicarbahexaborato(1-)-*H⁺*]iron, Fe-00227
(η^5 -2,4-Cyclopentadien-1-yl)[(2,3,4,5,6- η)-hexahydro-
2,3-dicarbahexaborato(2-)]hydroiron, Fe-00228

C₇H₁₂FeN₂O₄

- Tricarbonylnitrosylferrate(1-); Tetramethylammonium salt, *in*
Fe-00017

C₇H₁₃B₆Fe

- (η^5 -2,4-Cyclopentadien-1-yl)[(1,3,6,8- η)-octahydro-1,8-
dicarbaoctaborato(2-)]iron, Fe-00229
(η^5 -2,4-Cyclopentadien-1-yl)[(3,5,6,7,8- η)-octahydro-
5,6-dicarbaoctaborato(2-)]iron, Fe-00230

C₇H₁₃B₇FeO₃

- Tricarbonyl[η^5 -heptahydro-*C, C'*-
dimethyldicarbanonaborato(2-)]iron, Fe-00231

C₇H₁₄B₉Fe

- (η^5 -2,4-Cyclopentadien-1-yl)[(7,8,9,10,11- η)-
undecahydro-7,8-dicarbaundecaborato(2-)]iron, Fe-00232

C₇H₁₅B₈Fe

- (η^5 -2,4-Cyclopentadien-1-yl)[(5,6,7,8,9,10- η)-
decahydro-6,9-dicarbadecaborato(2-)]iron, Fe-00233

C₇H₁₆B₉Fe[⊖]

- (η^5 -2,4-Cyclopentadien-1-yl)[(7,8,9,10,11- η)-
undecahydro-7,8-dicarbaundecaborato(2-)]-
ferrate(1-), Fe-00234
(η^5 -2,4-Cyclopentadien-1-yl)[(7,8,9,10,11- η)-
undecahydro-7,9-dicarbaundecaborato(2-)]iron, Fe-00235

C₇H₁₇B₁₀Fe

- (η^5 -2,4-Cyclopentadien-1-yl)[η^6 -
dodecahydrodicarbadodecaborato(2-)]iron, Fe-00236

C₈Cl₄FeO₄

- Tricarbonyl[(2,3,4,5- η)-2,3,4,5-tetrachloro-2,4-
cyclopentadien-1-one]iron, Fe-00237

C₈F₆FeO₄

- Tetracarbonyl(1,1,2,3,4,4-hexafluoro-2-butene-1,4-diyl)-
iron, Fe-00238

C₈F₆FeO₆

- Tetracarbonylbis(trifluoroacetyl)iron, Fe-00239

C₈F₆Fe₂O₆S₂

- Hexacarbonylbis[μ -(trifluoromethanethiolato)]diiron, Fe-00240

C₈F₆Fe₂O₆Se₂

- Hexacarbonylbis[μ -(trifluoromethaneselenolato)]diiron,
Fe-00241

C₈F₈FeO₄

- Tetracarbonyl(1,1,2,2,3,3,4,4-octafluoro-1,4-
butanediyl)iron, Fe-00242

C₈F₁₀FeO₄

- Tetracarbonylbis(pentafluoroethyl)iron, Fe-00243

C₈Fe₂O₈^{⊖⊖}

- Octacarbonyldiferrate(2-), Fe-00244

C₈Fe₂O₁₀S

- Octacarbonyl- μ -sulfonyldiiron, Fe-00245

C₈HFe₂NaO₈

- Di- μ -carbonylhexacarbonyl- μ -hydrodiferrate(1-); Na salt, *in*
Fe-00246

C₈HFe₂O₈[⊖]

- Di- μ -carbonylhexacarbonyl- μ -hydrodiferrate(1-), Fe-00246

C₈H₂F₈FeO₄

- Tetracarbonylbis(1,1,2,2-tetrafluoroethyl)iron, Fe-00247

C₈H₂FeO₆

- Tetracarbonyl(1,4-dioxo-2-butene-1,4-diyl)iron, Fe-00248

C₈H₂FeO₇

- Tetracarbonyl[(3,4- η)-2,5-furandione]iron, *in* Fe-00254

C₈H₃ClFeO₄

- Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-
carboxylic acid]iron; Chloride, *in* Fe-00252

C₈H₃FeNO₃

- Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-
carbonitrile]iron, Fe-00249

C₈H₃FeNO₆

- Tetracarbonyl[(3,4- η)-2,5-pyrrolidinedione]iron, *in* Fe-00254

- C₈H₄FeO₄**
 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-carboxaldehyde]iron, Fe-00250
 Tricarbonyl[(2,3,4,5- η)-2,4-cyclopentadien-1-one]iron, Fe-00251
- C₈H₄FeO₅**
 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-carboxylic acid]iron, Fe-00252
 Tricarbonyl[(3,4,5,6- η)-2*H*-pyran-2-one]iron, Fe-00253
- C₈H₄FeO₈**
 [(2,3- η)-2-Butene-1,4-dioic acid]tetracarbonyliron, Fe-00254
- C₈H₅BF₄FeO₃**
 Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-00266
- C₈H₅B₃Fe₂O₆**
 Hexacarbonyl[μ -[(1,4,5- η :2,3,4,5- η)-pentahydro-2,4-dicarbapentaborato(2-)]diiron, Fe-00255
- C₈H₅ClFeO₃**
 Tricarbonyl[(1,2,3,4- η)-1-(chloromethyl)-1,3-cyclobutadiene]iron, Fe-00256
- C₈H₅F₃FeO₂**
 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trifluoromethyl)iron, Fe-00257
- C₈H₅F₆FeO₂PS**
 (Carbonothioyl)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-00264
- C₈H₅F₆FeO₃P**
 Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-00266
- C₈H₅FeKN₂O**
 Carbonylbis(cyano-C)(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-); K salt, *in* Fe-00263
- C₈H₅FeKO₂S₂**
 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(dithiocarboxylato)ferrate(1-); K salt, *in* Fe-00265
- C₈H₅FeNO₂**
 Dicarbonyl(cyano-C)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00258
- C₈H₅FeNO₂S**
 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(thiocyanato-*N*)iron, Fe-00259
 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(thiocyanato-*S*)iron, Fe-00260
- C₈H₅FeNO₂Se**
 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(selenocyanato-*Se*)iron, Fe-00261
- C₈H₅FeNO₃**
 Dicarbonyl(cyanato-*N*)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00262
- C₈H₅FeNO₄**
 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-carboxylic acid]iron; Amide, *in* Fe-00252
- C₈H₅FeN₂O[⊖]**
 Carbonylbis(cyano-C)(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-), Fe-00263
- C₈H₅FeO₂S[⊖]**
 (Carbonothioyl)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00264
- C₈H₅FeO₂S₂[⊖]**
 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(dithiocarboxylato)ferrate(1-), Fe-00265
- C₈H₅FeO₃[⊖]**
 Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00266
- C₈H₆FeN₂O₃**
 Tricarbonyl[(4,5,6,7- η)-1*H*-1,2-diazepine]iron, Fe-00267
- C₈H₆FeO₃**
 Tricarbonyl[(1,2,3,4- η)-1,3-cyclopentadiene]iron, Fe-00268
- Tricarbonyl[(1,2,3,4- η)-1-methyl-1,3-cyclobutadiene]iron, Fe-00269
- C₈H₆FeO₃S**
 Tricarbonyl[(1,2,3,4- η)-1-(methylthio)-1,3-cyclobutadiene]iron, *in* Fe-00161
- C₈H₆FeO₄**
 [(1,2- η)-1,3-Butadiene]tetracarbonyliron, Fe-00270
 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-methanol]iron, Fe-00271
 Tricarbonyl[(1,2,3,4- η)-1-methoxy-1,3-cyclobutadiene]iron, Fe-00272
 Tricarbonyl[η^4 -2-(oxoethylidene)-1,3-propanediyl]iron, Fe-00273
 Tricarbonyl[(2,3,4,5- η)-2,4-pentadienyl]iron, Fe-00274
- C₈H₆FeO₅**
 [[(1,2,3- η)-2-Butene-1,4-diyl]oxycarbonyl]tricarboxyliron, Fe-00275
 Tricarbonyl(3-methylene-2-butenic acid)iron, Fe-00276
 Tricarbonyl[(2,3,4,5- η)-2,4-pentadienoic acid]iron, Fe-00277
- C₈H₆FeO₆**
 Tetracarbonyl[(2,3- η)-2-butenic acid]iron, Fe-00278
 Tetracarbonyl(η^2 -ethenol)iron; Ac, *in* Fe-00115
 Tetracarbonyl[(2,3- η)-methyl 2-propenoate]iron, *in* Fe-00165
 Tetracarbonyl[(2,3- η)-2-methyl-2-propenoic acid]iron, Fe-00279
- C₈H₆Fe₂N₂O₆**
 Hexacarbonyl[μ -[1,2-dimethylhydrazinato(2-)]diiron, Fe-00280
- C₈H₆Fe₂O₆S₂**
 Hexacarbonylbis[μ -(methanethiolato)]diiron, Fe-00281
- C₈H₆Fe₂O₆Se₂**
 Hexacarbonylbis[μ -(methaneselenolato)]diiron, Fe-00282
- C₈H₇AlCl₄FeO₃**
 Tricarbonyl(η^5 -2,4-pentadienyl)iron(1+); Tetrachloroaluminate, *in* Fe-00292
- C₈H₇BF₄FeO₃**
 Tricarbonyl(η^5 -2,4-pentadienyl)iron(1+); Tetrafluoroborate, *in* Fe-00292
- C₈H₇BF₄FeO₄**
 [(1,2,3- η)-2-Butenyl]tetracarbonyliron(1+); Tetrafluoroborate, *in* Fe-00293
- C₈H₇BrFeO₅**
 Bromotricarbonyl[(1,2,3- η)-2-buten-1-yloic acid]iron; Me ester, *in* Fe-00176
- C₈H₇ClFeO₂**
 Dicarbonyl(chloromethyl)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00283
 Dicarbonylchloro[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]iron, Fe-00284
- C₈H₇ClFeO₃**
 Dicarbonylchloro(η^5 -1-methoxy-2,4-cyclopentadien-1-yl)iron, *in* Fe-00183
- C₈H₇ClFeO₇**
 ▶ Tricarbonyl(η^5 -2,4-pentadienyl)iron(1+); Perchlorate, *in* Fe-00292
- C₈H₇F₆FeO₃P**
 Tricarbonyl(η^5 -2,4-pentadienyl)iron(1+); Hexafluorophosphate, *in* Fe-00292
- C₈H₇FeIO₂**
 Dicarbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]iodoiron, Fe-00285
 Dicarbonyl(η^5 -1-iodo-2,4-cyclopentadien-1-yl)methyliron, Fe-00286
 Dicarbonyliodo[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]iron, Fe-00287
- C₈H₇FeKO₂**
 Dicarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]ferrate(1-); K salt, *in* Fe-00290
- C₈H₇FeNO₄**
 [[(1,2,3- η)-2-Butene-1,4-diyl](iminocarbonyl)]tricarboxyliron, Fe-00288

$C_8H_7FeO_2^\oplus$ Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)methyleneiron(1+), Fe-00289Dicarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]ferrate(1-), Fe-00290 **$C_8H_7FeO_3^\oplus$** Tricarbonyl[η^4 -2-(2-ethylum-1-ylidene)-1,3-propanediyl]iron(1+), Fe-00291Tricarbonyl(η^5 -2,4-pentadienyl)iron(1+), Fe-00292 **$C_8H_7FeO_4^\oplus$** [(1,2,3- η)-2-Butenyl]tetracarbonyliron(1+), Fe-00293 **$C_8H_8F_{12}FeP_4$** [(η^2 -Ethenyl)benzene]tetrakis(phosphorous trifluoride)iron, Fe-00294 **C_8H_8FeINO** Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-iodo(isocyanomethane)iron, Fe-00295 **$C_8H_8FeN_2O_3$** Tricarbonyl[(4,5,6,7- η)-2,3-dihydro-1*H*-1,2-diazepine]-iron, Fe-00296 **$C_8H_8FeOS_3$** Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methyltrithiocarbonato-*S,S'*)iron, Fe-00297 **$C_8H_8FeO_2$** Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)methyliron, Fe-00298 **$C_8H_8FeO_2S$** Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(methanethiolato)-iron, Fe-00299 **$C_8H_8FeO_3$** Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(hydroxymethyl)-iron, Fe-00300Tricarbonyl[(1,2,3,4- η)-2-methyl-1,3-butadiene]iron, Fe-00301Tricarbonyl[(1,2,3,4- η)-1,3-pentadiene]iron, Fe-00302Tricarbonyl[(1,2,3,5- η)-2-pentene-1,5-diyl]iron, Fe-00303 **$C_8H_8FeO_3Si$** Tricarbonyl[(2,3,4,5- η)-1-sila-2,4-cyclohexadiene]iron, Fe-00304 **$C_8H_8FeO_4$** [(*O*,2,3,4- η)-3-Penten-2-one]tricarbonyliron, Fe-00305Tricarbonyl[η^4 -2-(2-hydroxyethylidene)-1,3-propanediyl]-iron, Fe-00306Tricarbonyl[(1,2,3,4- η)-1-methoxy-1,3-butadiene]iron, *in* Fe-00203Tricarbonyl[(1,2,3,4- η)-2-methoxy-1,3-butadiene]iron, *in* Fe-00204Tricarbonyl[(2,3,4,5- η)-2,4-pentadien-1-ol]iron, Fe-00307 **$C_8H_8FeO_4S$** Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methanesulfinato-*O*)iron, Fe-00308Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(methylsulfonyl)-iron, Fe-00309 **$C_8H_8FeO_4S_2$** Tetracarbonyl(1,3-dithiane-*S'*)iron, Fe-00310 **$C_8H_8FeO_4Se$** Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(methylselenonyl)-iron, Fe-00311 **$C_8H_8FeO_5$** Tetracarbonyl[(1,2- η)-ethoxyethene]iron, Fe-00312 **$C_8H_8FeP_2$** Bis(η^5 -1*H*-phosphol-1-yl)iron, Fe-00313 **$C_8H_8Fe_2N_2O_6$**

Hexacarbonylbis(methylamino)diiron, Fe-00314

 $C_8H_8Fe_2O_6P_2$ Hexacarbonylbis[μ -(methylphosphino)]diiron, Fe-00315 **$C_8H_9ClFeO_3$** Chlorotricarbonyl[(2,3,4- η)-3-penten-2-yl]iron, Fe-00316 **$C_8H_9FeNO_2$** (η^4 -1,3-Butadiene)dicarbonyl(isocyanomethane)iron, Fe-00317 **$C_8H_9FeNO_3$** Dicarbonyl[(1,2,3- η)-2-cyclohexen-1-yl]nitrosyliron, Fe-00318 **$C_8H_9FeNO_4$** Dicarbonyl[(1,2,3- η)-2-hexen-5-one-1-yl]nitrosyliron, Fe-00319 **$C_8H_{10}FeO_2$** ▷Dicarbonylbis(η^3 -2-propenyl)iron, Fe-00320 **$C_8H_{12}F_3FeP$** Bis(η^4 -1,3-butadiene)(phosphorous trifluoride)iron, Fe-00321 **$C_8H_{13}FeNO_4$** Tetracarbonylhydroferrate(1-); Tetramethylammonium salt, *in* Fe-00042 **$C_8H_{16}Fe^{\ominus\ominus}$** Tetrakis(η^2 -ethene)ferrate(2-), Fe-00322 **$C_8H_{18}Br_2FeO_2P_2$**

Dibromodicarbonylbis(trimethylphosphine)iron, Fe-00323

 $C_8H_{18}Cl_2FeO_2P$

Dicarbonyldichlorobis(trimethylphosphine)iron, Fe-00324

 $C_8H_{18}FeI_2O_2P_2$

Dicarbonyldiiodobis(trimethylphosphine)iron, Fe-00325

 $C_8H_{18}Fe_4N_6O_4S_2$ Bis[μ_3 -[2-methyl-2-propanaminato(2-)]]tetranitrosyldi- μ_3 -thioxotetrairon, Fe-00326 **$C_8H_{20}Fe_4N_8O_7S_3$** Heptanitrosyltri- μ_3 -thioxotetraferrate(1-); Tetraethylammonium salt, *in* Fe-02222 **$C_8H_{21}F_{12}FeNP_4$** Hydrotetrakis(phosphorous trifluoride)ferrate(1-); Tetraethylammonium salt, *in* Fe-02212 **$C_8H_{22}B_8Fe$** Bis[(2,3,4,6- η)-pentahydro-4,5-dimethyl-4,5-dicarbahexaborato(1-)-*H*[#]]iron, Fe-00327 **$C_8H_{30}B_{18}Fe^\ominus$** Bis[(7,8,9,10,11- η)-1,2,3,4,5,6,9,10,11-nonahydro-7,8-dimethyl-7,8-dicarbaundecaborato(2-)]ferrate(1-), Fe-00328 **$C_8H_{34}B_{18}FeN$** Bis[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]ferrate(1-); Tetramethylammonium salt, *in* Fe-00060 **$C_9As_2Fe_3O_9$** Di- μ_3 -arsenidononacarbonyltriiron, Fe-00329 **$C_9F_4Fe_2O_7$** μ -Carbonylhexacarbonylbis[μ -(difluoromethylene)]diiron, Fe-00330 **$C_9F_8FeO_3$**

Tricarbonyl(1,2,3,4,5,5,6,6-octafluoro-1,3-cyclohexadiene)iron, Fe-00331

 $C_9F_9FeO_3^\ominus$ Tricarbonyl[(1,2,3- η)-1,2,3,4,4,5,5,6,6-nonafluoro-2-cyclohexen-1-yl]ferrate(1-), Fe-00332 **$C_9FeMnO_9^\ominus$**

Nonacarbonylferratemanganate(1-), Fe-00333

 $C_9Fe_2O_9$

Nonacarbonyldiiron, Fe-00334

 $C_9Fe_3O_8S_3$ [μ_3 -(Carbonothioyl)]octacarbonyldi- μ -thioxotriiron, Fe-00335 **$C_9Fe_3O_9S_2$** Nonacarbonyldi- μ_3 -thioxotriiron, Fe-00336 **$C_9Fe_3O_9Se_2$** Nonacarbonyldi- μ_3 -selenoxotriiron, Fe-00337

- C₉Fe₃O₉Te₂**
Nonacarbonyldi-μ₃-telluroxotriiron, Fe-00338
- C₉Fe₃O₁₀S₂**
Nonacarbonyl-μ₃-sulfinyl-μ₃-thioxotriiron, Fe-00339
- C₉H₂Cl₂FeO₅**
Tricarbonyl[(1,2,3,4-η)-1,3-cyclobutadiene-1,2-dicarboxylic acid]iron; Dichloride, *in* Fe-00345
- C₉H₂FeN₂O₃**
Tricarbonyl(1,2-dicyano-1,3-cyclobutadiene)iron, *in* Fe-00345
- C₉H₂Fe₂O₈**
Octacarbonyl(μ-methylene)diiron, Fe-00340
- C₉H₂Fe₃N₂O₉**
Nonacarbonyldi-μ₃-imidotriiron, Fe-00341
- C₉H₂Fe₃O₉S**
Nonacarbonyldi-μ-hydro-μ₃-thioxotriiron, Fe-00342
- C₉H₄FeN₂O₃**
Tricarbonyl(2,4-hexadienedinitrile)iron, Fe-00343
- C₉H₄FeO₅**
Tricarbonyl[(1,2,3,4-η)-1,3-cyclobutadiene-1,2-dicarboxaldehyde]iron, Fe-00344
- C₉H₄FeO₇**
Tricarbonyl[(1,2,3,4-η)-1,3-cyclobutadiene-1,2-dicarboxylic acid]iron, Fe-00345
- C₉H₅F₃FeO₃**
Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(trifluoroacetyl)-iron, Fe-00346
- C₉H₅F₆FeO₂P**
[Bis(trifluoromethyl)phosphino]dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron, Fe-00347
- C₉H₅FeNO₄**
▷Tetracarbonyl(pyridine)iron, Fe-00348
- C₉H₆Cl₂FeO₃**
[(1,2,3,4-η)-1,2-Bis(chloromethyl)-1,3-cyclobutadiene]-tricarbonyliron, Fe-00349
- C₉H₆FeHgO₅**
[1-[(Acetato)mercurio]-1,3-cyclobutadiene]-tricarbonyliron, Fe-00350
- C₉H₆FeN₂O₅**
Tricarbonyl[(1,2,3,4-η)-1,3-cyclobutadiene-1,2-dicarboxylic acid]iron; Diamide, *in* Fe-00345
Tricarbonyl[(4,5,6,7-η)-1*H*-1,2-diazepine-1-carboxylic acid]iron, Fe-00351
- C₉H₆FeO₂**
Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(ethynyl)iron, Fe-00352
- C₉H₆FeO₃**
Tricarbonyl(vinylcyclobutadiene)iron, Fe-00353
- C₉H₆FeO₄**
Tricarbonyl(acetylcyclobutadiene)iron, Fe-00354
Tricarbonyl[(2,3,4,5-η)-2,4-cyclohexadien-1-one]iron, Fe-00355
Tricarbonyl[(2,3,4,5-η)-oxepin]iron, Fe-00356
- C₉H₆FeO₅**
Tricarbonyl[(1,2,3,4-η)-1-(carboxymethyl)-1,3-cyclobutadiene]iron, Fe-00357
Tricarbonyl[(1,2,3,4-η)-1,3-cyclobutadiene-1-carboxylic acid]iron; Me ester, *in* Fe-00252
Tricarbonyl[(2,3,4,5-η)-2,4-hexadienedial]iron, Fe-00358
- C₉H₆FeO₇**
[η⁴-1,3-Dicarboxy-2-methylene-1,3-propanediyl]-tricarbonyliron, Fe-00359
Tricarbonyl(η⁴-2-ethenyl-2-butenedioic acid)iron, Fe-00360
Tricarbonyl[(2,3,4,5-η)-2,4-hexadienedioic acid]iron, Fe-00361
- C₉H₆FeO₈**
[(2,3-η)-2-Butene-1,4-dioic acid]tetracarbonyliron; Mono-Me ester, *in* Fe-00254
- C₉H₆Fe₂N₂O₇**
[μ-[1,3-Dimethylureato(2-)]][hexacarbonyldiiron, Fe-00362
- C₉H₇BF₄FeO₃**
Tricarbonyl[(1,2,3,4,5-η)-2,4-cyclohexadien-1-yl]-iron(1+); Tetrafluoroborate, *in* Fe-00375
- C₉H₇Br₃FeO₃**
Tricarbonyl[(1,2,3,4,5-η)-2,4-cyclohexadien-1-yl]-iron(1+); Tribromide, *in* Fe-00375
- C₉H₇ClFeO₃**
Tricarbonyl[(1,2,3,4-η)-1-chloro-1,3-cyclohexadiene]-iron, Fe-00363
Tricarbonyl[(1,2,3,4-η)-2-chloro-1,3-cyclohexadiene]-iron, Fe-00364
Tricarbonyl[(1,2,3,4-η)-5-chloro-1,3-cyclohexadiene]-iron, Fe-00365
- C₉H₇ClFeO₄**
Dicarbonylchloro(η⁵-1-hydroxy-2,4-cyclopentadien-1-yl)-iron; Ac, *in* Fe-00183
- C₉H₇FFeO₃**
Tricarbonyl[(1,2,3,4-η)-5-fluoro-1,3-cyclohexadiene]-iron, Fe-00366
- C₉H₇FeIO₃**
[(1,2,3,4,5-η)-1-Acetyl-2,4-cyclopentadien-1-yl]-dicarbonyliodoiron, Fe-00367
- C₉H₇FeKO₂S₂**
Dicarbonyl(dithiocarboxylato)[(1,2,3,4,5-η)-1-methyl-2,4-cyclopentadien-1-yl]ferrate(1-); K salt, *in* Fe-00374
- C₉H₇FeNO₂**
Dicarbonyl(cyano-C)[(1,2,3,4,5-η)-2,4-cyclohexadien-1-yl]iron, Fe-00368
Dicarbonyl(cyanomethyl)(η⁵-2,4-cyclopentadien-1-yl)-iron, Fe-00369
- C₉H₇FeNO₃**
[(2,3,4,5-η)-1*H*-Azepine]tricarbonyliron, Fe-00370
Tricarbonyl[(2,3,4,5-η)-2,4-hexadienenitrile]iron, Fe-00371
- C₉H₇FeNO₄S**
Tetracarbonyl[3,4-dimethyl-2(3*H*)-thiazolylidene]iron, Fe-00372
- C₉H₇FeNO₅**
Tricarbonyl[(3,4,5,6-η)-1(2*H*)-pyridinecarboxylic acid]iron, Fe-00373
- C₉H₇FeO₂S₂[⊖]**
Dicarbonyl(dithiocarboxylato)[(1,2,3,4,5-η)-1-methyl-2,4-cyclopentadien-1-yl]ferrate(1-), Fe-00374
- C₉H₇FeO₃[⊕]**
Tricarbonyl[(1,2,3,4,5-η)-2,4-cyclohexadien-1-yl]-iron(1+), Fe-00375
Tricarbonyl[(1,2,3,4,5-η)-1-methyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-00376
- C₉H₈BF₄FeNO₂**
(Acetonitrile)dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)-iron(1+); Tetrafluoroborate, *in* Fe-00377
- C₉H₈F₆FeNO₂P**
(Acetonitrile)dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)-iron(1+); Hexafluorophosphate, *in* Fe-00377
Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(isocyanomethane)-iron(1+); Hexafluorophosphate, *in* Fe-00380
- C₉H₈FeINO₂**
Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(isocyanomethane)-iron(1+); Iodide, *in* Fe-00380
- C₉H₈FeKNO₂**
Acetylcarbonyl(cyano-C)(η⁵-2,4-cyclopentadien-1-yl)-ferrate(1-); K salt, *in* Fe-00378
- C₉H₈FeNNaO₂**
Dicarbonyl(cyano-C)[(1,2,3,4-η)-1,3-cyclohexadiene]-ferrate(1-); Na salt, *in* Fe-00379
- C₉H₈FeNO₂[⊕]**
(Acetonitrile)dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)-iron(1+), Fe-00377

Acetylcarbonyl(cyano-*C*)(η^5 -2,4-cyclopentadien-1-yl)-ferrate(1-), Fe-00378
 Dicarbonyl(cyano-*C*)[(1,2,3,4- η)-1,3-cyclohexadiene]-ferrate(1-), Fe-00379
 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(isocyanomethane)-iron(1+), Fe-00380

C₉H₈FeN₂O
 Carbonyl(cyano-*C*)(η^5 -2,4-cyclopentadien-1-yl)-(isocyanomethane)iron, Fe-00381

C₉H₈FeN₂O₃
 Tricarbonyl[(4,5,6,7- η)-1*H*-1,2-diazepine]iron; 1-Me, *in* Fe-00267
 Tricarbonyl[(4,5,6,7- η)-3-methyl-1*H*-1,2-diazepine]iron, Fe-00382
 Tricarbonyl[(4,5,6,7- η)-5-methyl-1*H*-1,2-diazepine]iron, Fe-00383

C₉H₈FeN₂O₄
 Tetracarbonyl(1,3-dihydro-1,3-dimethyl-2*H*-imidazol-2-ylidene)iron, Fe-00384

C₉H₈FeO₂
 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ethenyliron, Fe-00385

C₉H₈FeO₂S₂
 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(methylthio)-thioxomethyl]iron, Fe-00386

C₉H₈FeO₂S₃
 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methyltrithiocarbonato-*S*)iron, Fe-00387

C₉H₈FeO₃
 Acetyldicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00388
 [η^4 -1,2-Bis(methylene)cyclobutane]tricarbonyliron, Fe-00389
 Tricarbonyl(1,2,3,4- η)-1,3-cyclohexadieneiron, Fe-00390
 Tricarbonyl[(1,2,3,4- η)-1,2-dimethyl-1,3-cyclobutadiene]iron, Fe-00391
 Tricarbonyl[(1,2,3,4- η)-1-ethyl-1,3-cyclobutadiene]-iron, Fe-00392
 Tricarbonyl[(1,2,3,4- η)-1,3,5-hexatriene]iron, Fe-00393

C₉H₈FeO₃S
 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methoxythioxomethyl)iron, Fe-00394

C₉H₈FeO₄
 (η^4 -1-Acetyl-2-methylene-1,3-propanediyl)-tricarbonyliron, Fe-00395
 Dicarbonyl(carboxymethyl)(η^5 -2,4-cyclopentadien-1-yl)-iron, Fe-00396
 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(methoxycarbonyl)-iron, Fe-00397
 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-ethanol]-iron, Fe-00398
 Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadien-1-ol]iron, Fe-00399
 Tricarbonyl[(1,2,3,4- η)-1-ethoxy-1,3-cyclobutadiene]-iron, Fe-00400
 Tricarbonyl[(2,3,4,5- η)-2,4-hexadienal]iron, Fe-00401
 Tricarbonyl[(3,4,5,6- η)-3,5-hexadien-2-one]iron, Fe-00402
 Tricarbonyl[(1,2,3,4- η)- α -methyl-1,3-cyclobutadiene-1-methanol]iron, Fe-00403
 Tricarbonyl(η^4 -3-methylene-4-penten-2-one)iron, Fe-00404
 Tricarbonyl[(1,2,3,4- η)-4-methyl-1,3-pentadien-1-one]-iron, Fe-00405
 Tricarbonyl[(1,2,3,6- η)-6-oxo-2-hexene-1,6-diyl]iron, Fe-00406

C₉H₈FeO₅
 (1,3-Butadien-2-ol)tricarbonyliron; Ac, *in* Fe-00204
 [(η^4 -1,3-Butadien-1-yl)acetate]tricarbonyliron, *in* Fe-00203
 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1,2-dimethanol]iron, Fe-00407
 Tricarbonyl[(2,3,4,5- η)-2,4-hexadienoic acid]iron, Fe-00408
 Tricarbonyl[η^4 -2-(2-methoxy-2-oxoethylidene)-1,3-propanediyl]iron, Fe-00409
 Tricarbonyl(3-methylene-2-butenic acid)iron; Me ester, *in* Fe-00276

C₉H₈FeO₅S

Tricarbonyl[(2,3,4,5- η)-2,5-dimethylthiophene 1,1-dioxide]iron, Fe-00410
 Tricarbonyl[(2,3,4,5- η)-3,4-dimethylthiophene 1,1-dioxide]iron, Fe-00411

C₉H₈FeO₆

Tetracarbonyl[(2,3- η)-2-butenic acid]iron; Me ester, *in* Fe-00278
 Tetracarbonyl[(2,3- η)-2-methyl-2-propenoic acid]iron; Me ester, *in* Fe-00279
 Tetracarbonyl[(2,3- η)-2-propenoic acid]iron; Et ester, *in* Fe-00165

C₉H₈FeO₆S

Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadiene-1-sulfonic acid]iron, Fe-00412

C₉H₉AlCl₄FeO₄

Tricarbonyl[(1,2,3- η)-5-oxo-2-hexenyl-*O*]iron(1+); Tetrachloroaluminate, *in* Fe-00423

C₉H₉BF₄FeO₂

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^2 -ethene)-iron(1+); Tetrafluoroborate(1-), *in* Fe-00420

C₉H₉BF₄FeO₃

Tricarbonyl[(1,2,3,4,5- η)-2,4-hexadienyl]iron(1+); Tetrafluoroborate, *in* Fe-00422

C₉H₉BFeO₄

Tricarbonyl[(3,4,5,6- η)-1,2-dihydro-1-methoxyborin]-iron, Fe-00413

C₉H₉ClFeO₂

Dicarbonylchloro[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-iron, Fe-00414

C₉H₉ClFeO₇

▷ Tricarbonyl[(1,2,3,4,5- η)-2,4-hexadienyl]iron(1+); Perchlorate, *in* Fe-00422

C₉H₉CsFeO₃

Tricarbonyl[(1,2,3- η)-1,2,3,4,4,5,5,6,6-nonafluoro-2-cyclohexen-1-yl]ferrate(1-); Cs salt, *in* Fe-00332

C₉H₉F₆FeO₂P

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^2 -ethene)-iron(1+); Hexafluorophosphate(1-), *in* Fe-00420

C₉H₉F₆FeO₃P

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methoxymethylene)iron(1+); Hexafluorophosphate, *in* Fe-00421

C₉H₉F₆FeO₄P

Tricarbonyl[(1,2,3- η)-5-oxo-2-hexenyl-*O*]iron(1+); Hexafluorophosphate, *in* Fe-00423

C₉H₉FeIO₂

Dicarbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-iodoiron, Fe-00415

C₉H₉FeN

(η^5 -2,4-Cyclopentadien-1-yl)(η^5 -1*H*-pyrrol-1-yl)iron, Fe-00416

C₉H₉FeNO₃

Tricarbonyl(η^4 -1,3-cyclobutadien-1-amine)iron; *N,N*-Di-Me, *in* Fe-00191

C₉H₉FeNO₄

(4-Acetyl- π -cyclopentenyl)dicarbonylnitrosyliron, Fe-00417
 [(1,2,3- η)-2-Butene-1,4-diyl](methylimino)carbonyl]-tricarbonyliron, Fe-00418
 (Sorbamide)iron tricarbonyl, *in* Fe-00408
 Tetracarbonyl(2-isocyano-2-methylpropane)iron, Fe-00419

C₉H₉FeO₂[⊕]

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^2 -ethene)-iron(1+), Fe-00420

C₉H₉FeO₃[⊕]

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methoxymethylene)iron(1+), Fe-00421
 Tricarbonyl[(1,2,3,4,5- η)-2,4-hexadienyl]iron(1+), Fe-00422

C₉H₉FeO₄[⊕]Tricarbonyl[(1,2,3- η)-5-oxo-2-hexenyl-*O*]iron(1+), Fe-00423**C₉H₉FeP**(η^5 -2,4-Cyclopentadien-1-yl)(η^5 -1-*H*-phosphol-1-yl)iron, Fe-00424**C₉H₁₀FeN₂O₄**

Tetracarbonyl(1,3-dimethyl-2-imidazolidinylidene)iron, Fe-00425

C₉H₁₀FeOCarbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^3 -2-propenyl)-iron, Fe-00426**C₉H₁₀FeO₂**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ethyliron, Fe-00427**C₉H₁₀FeO₂S**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(ethanethiolato)-iron, Fe-00428**C₉H₁₀FeO₃**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(methoxymethyl)-iron, *in* Fe-00300Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-methoxymethyliron, Fe-00429Tricarbonyl[(1,2,3,4- η)-2,3-dimethyl-1,3-butadiene]-iron, Fe-00430Tricarbonyl(η^4 -1,1-dimethyl-2-methylene-1,3-propanediyl)iron, Fe-00431Tricarbonyl[(1,2,3,4- η)-1,3-hexadiene]iron, Fe-00432Tricarbonyl[(2,3,4,5- η)-2,4-hexadiene]iron, Fe-00433Tricarbonyl[(1,2,3,4- η)-2-methyl-1,3-pentadiene]iron, Fe-00434Tricarbonyl[(1,2,3,4- η)-3-methyl-1,3-pentadiene]iron, Fe-00435Tricarbonyl[(1,2,3,4- η)-4-methyl-1,3-pentadiene]iron, Fe-00436**C₉H₁₀FeO₄**Tricarbonyl[(2,3,4,5- η)-2,4-hexadien-1-ol]iron, Fe-00437Tricarbonyl[(3,4,5,6- η)-3,5-hexadien-1-ol]iron, Fe-00439Tricarbonyl[(3,4,5,6- η)-3,5-hexadien-2-ol]iron, Fe-00438**C₉H₁₀FeO₄Si**Tricarbonyl[(3,4,5,6- η)-2,2-dimethyl-1-oxa-2-silacyclohexa-3,5-diene]iron, Fe-00440**C₉H₁₁AsFeO₂**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(dimethylarsino)-iron, Fe-00441**C₉H₁₁BiFeO₂**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(dimethylbismuthino)iron, Fe-00442**C₉H₁₁BrFeN₂**Bromo(η^5 -2,4-cyclopentadien-1-yl)bis(isocyanomethane)-iron, Fe-00443**C₉H₁₁FeIN₂**(η^5 -2,4-Cyclopentadien-1-yl)iodobis(isocyanomethane)-iron, Fe-00444**C₉H₁₁FeNOS₂**Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(dimethylcarbamo-dithioato-*S,S'*)iron, Fe-00445**C₉H₁₁FeNO₅**

Tetracarbonyl[(dimethylamino)ethoxymethylene]iron, Fe-00446

C₉H₁₁FeO₂PSDicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(dimethylphosphinothioito-*P*)iron, Fe-00447**C₉H₁₁FeO₂Sb**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(dimethylstibino)-iron, Fe-00448**C₉H₁₂B₂FeO₃S**Tricarbonyl[(1,2,3,4,5- η)-3,4-diethyl-2,5-dihydro-1,2,5-thiadiborole]iron, Fe-00449**C₉H₁₂B₄FeO₂**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(2,3- η)-heptahydro-4,5-dicarbahexaborato(1-)]iron, Fe-00450**C₉H₁₂FeN₂O₄**

[Bis(dimethylamino)methylene]tetracarbonyliron, Fe-00451

C₉H₁₂FeOBis(η^4 -1,3-butadiene)carbonyliron, Fe-00452**C₉H₁₂FeO₅Si**Tetracarbonyl(η^2 -ethenol)iron; Trimethylsilyl ether, *in* Fe-00115**C₉H₁₃F₆FeNO₃P₂**Dicarbonylnitrosyl[(1,2,3- η)-4-(trimethylphosphonio)-2-cyclobuten-1-yl]iron(1+); Hexafluorophosphate, *in* Fe-00453**C₉H₁₃FeNO₃P[⊖]**Dicarbonylnitrosyl[(1,2,3- η)-4-(trimethylphosphonio)-2-cyclobuten-1-yl]iron(1+), Fe-00453**C₉H₁₃FeO₅P**Dicarbonyl(η^4 -1,3-cyclobutadiene)(trimethylphosphite-*P*)iron, Fe-00454**C₉H₁₄BrFeOP**Bromocarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trimethylphosphine)iron, Fe-00455**C₉H₁₄BrFeO₄P**Bromocarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trimethylphosphite-*P*)iron, Fe-00456**C₉H₁₄ClFeOP**Carbonylchloro(η^5 -2,4-cyclopentadien-1-yl)-(trimethylphosphine)iron, Fe-00457**C₉H₁₄ClFeO₄P**Carbonylchloro(η^5 -2,4-cyclopentadien-1-yl)(trimethylphosphite-*P*)iron, Fe-00458**C₉H₁₄FeIOP**Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-iodo(trimethylphosphine)iron, Fe-00459**C₉H₁₄FeIO₄P**Carbonyl(η^5 -2,4-cyclopentadien-1-yl)iodo(trimethylphosphite-*P*)iron, Fe-00460**C₉H₁₅FeOP**Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-hydro(trimethylphosphine)iron, Fe-00461**C₉H₁₅FeO₄P**Carbonyl(η^5 -2,4-cyclopentadien-1-yl)hydro(trimethylphosphite-*P*)iron, Fe-00462**C₉H₁₈As₂FeO₃**

Tricarbonylbis(trimethylarsine)iron, Fe-00463

C₉H₁₈FeO₂P₂S₂[(*C,S*)- η -Carbon disulfide]-dicarbonylbis(trimethylphosphine)iron, Fe-00464**C₉H₁₈FeO₃P₂**

Tricarbonylbis(trimethylphosphine)iron, Fe-00465

C₉H₁₈FeO₃Sb₂

Tricarbonylbis(trimethylstibine)iron, Fe-00466

C₉H₁₈FeO₉P₂Tricarbonylbis(trimethyl phosphite-*P*)iron, Fe-00467**C₉H₂₁FeIOP₂S₂**

Carbonyliodo[(methylthio)thioxomethyl]-bis(trimethylphosphine)iron, Fe-00468

C₉H₂₁FeIO₂P₂

Dicarbonyliodomethylbis(trimethylphosphine)iron, Fe-00469

C₁₀As₂F₁₂Fe₂O₆Bis[μ -[bis(trifluoromethyl)arsino]]hexacarbonyldiiron, Fe-00470**C₁₀Cl₁₀Fe**

Decachloroferrocene, Fe-00471

C₁₀Cl₁₀FeHg₁₀

Decakis(chloromercurio)ferrocene, Fe-00472

C₁₀F₅FeIO₄

Iodotetracarbonyl(pentafluorophenyl)iron, Fe-00473

C₁₀F₁₀Fe₂I₂O₆Hexacarbonyldi- μ -iodobis(pentafluoroethyl)diiron, *in* Fe-00064**C₁₀F₁₂FeO₄**Tetracarbonyl[(2,3- η)-1,1,1,4,4,4-hexafluoro-2,3-bis(trifluoromethyl)-2-butene]iron, Fe-00474**C₁₀F₁₂Fe₂O₆P₂**Bis[μ -[bis(trifluoromethyl)phosphino]]-hexacarbonyldiiron, Fe-00475**C₁₀F₁₄FeO₄**

Tetracarbonylbis(heptafluoropropyl)iron, Fe-00476

C₁₀FeI₁₀

Decaiodoferrocene, Fe-00477

C₁₀HFe₃NO₁₀ μ_3 -Carbonylnonacarbonyl- μ_3 -imidotriiron, Fe-00478**C₁₀H₂Cl₈Fe**

1,1',2,2',3,3',4,4'-Octachloroferrocene, Fe-00479

C₁₀H₄Cl₆F₄

1,1',2,2',3,3'-Hexachloroferrocene, Fe-00480

C₁₀H₄Fe₂O₆ μ -[(1,2,3,4- η :1,4- η)-1,3-Butadiene-1,4-diyl]]-hexacarbonyldiiron, Fe-00481 μ -[(1,2,3- η :2,3,4- η)-2-Butyne-1,4-diyl]]-hexacarbonyldiiron, Fe-00482**C₁₀H₄Fe₂O₈**Hexacarbonyl[μ -[(1,2,3,4- η :1,4- η)-1,4-dihydroxy-1,3-butadiene-1,4-diyl]]diiron, Fe-00483Octacarbonyl(μ -ethylidene)diiron, Fe-00484**C₁₀H₄Fe₂O₉**Octacarbonyl(μ -methoxymethylene)diiron, Fe-00485**C₁₀H₅Cl₅Fe**

1,2,3,4,5-Pentachloroferrocene, Fe-00486

C₁₀H₅F₅FeO₂Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(1,2,3,3,3-pentafluoro-1-propenyl)iron, Fe-00487**C₁₀H₅F₅FeO₃**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,2,3,3,3-pentafluoropropanoyl)iron, Fe-00488**C₁₀H₅F₇FeO₂**Dicarbonyl- π -cyclopentadienyl[tetrafluoro-1-(trifluoromethyl)ethyl]iron, Fe-00489**C₁₀H₆Cl₄Fe**

1,1',2,2'-Tetrachloroferrocene, Fe-00490

1,2,3,4-Tetrachloroferrocene, Fe-00491

C₁₀H₆F₆FeNO₃P[(1,6,7,8- η)-Bicyclo[4.2.0]octa-1,3,5,7-tetraene]-dicarbonylnitrosyliron(1+); Hexafluorophosphate, *in* Fe-00492**C₁₀H₆FeNO₃⁺**[(1,6,7,8- η)-Bicyclo[4.2.0]octa-1,3,5,7-tetraene]-dicarbonylnitrosyliron(1+), Fe-00492**C₁₀H₆FeO₃**[(1,5,6,7- η)-Bicyclo[3.2.0]hepta-2,5,7-triene]-tricarbonyliron, Fe-00493**C₁₀H₆FeO₄**[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-dien-7-one]-tricarbonyliron, *in* Fe-00530Tricarbonyl[(2,3,4,5- η)-2,4,6-cycloheptatrien-1-one]-iron, Fe-00494**C₁₀H₆FeO₅**

Tricarbonyl(4,6-cycloheptadiene-1,3-dione)iron, Fe-00495

C₁₀H₆FeO₆

Tetracarbonyl(2,3-dimethyl-1,4-dioxo-2-butene-1,4-diyl)-iron, Fe-00496

C₁₀H₆FeO₇Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1,2-dicarboxylic acid]iron; Mono-Me ester, *in* Fe-00345**C₁₀H₆Fe₂N₂O₇**Hexacarbonyl[μ -(cyanato-*N:N*)] [μ -(2-propaniminato)]-diiron, Fe-00497**C₁₀H₆Fe₂O₈**Bis[μ -(methyldidyneoxy)]hexacarbonyldiiron, Fe-00498**C₁₀H₆Fe₂O₈Si** $\triangleright$ Octacarbonyl[μ -(dimethylsilylene)]diiron, Fe-00499**C₁₀H₇BF₄FeO₃**Tricarbonyl(η^7 -2,4,6-cycloheptatrien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-00505**C₁₀H₇Cl₃Fe**

1,2,3-Trichloroferrocene, Fe-00500

C₁₀H₇FeKO₃ $\triangleright$ Tricarbonyl[(1,2,3- η)-2,4,6-cycloheptatrien-1-yl]-ferrate(1-); K salt, *in* Fe-00504**C₁₀H₇FeLiO₃**Tricarbonyl[(1,2,3- η)-2,4,6-cycloheptatrien-1-yl]-ferrate(1-); Li salt, *in* Fe-00504**C₁₀H₇FeNO₃**Tricarbonyl[(1,2,3,4- η)-1,3-cyclohexadiene-1-carbonitrile]iron, Fe-00501Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadiene-1-carbonitrile]iron, Fe-00502**C₁₀H₇FeNO₅**[(2,3,4,5- η)-1*H*-Azepine-1-carboxylic acid]tricarbonyliron, Fe-00503**C₁₀H₇FeO₃⁻**Tricarbonyl[(1,2,3- η)-2,4,6-cycloheptatrien-1-yl]-ferrate(1-), Fe-00504Tricarbonyl(η^7 -2,4,6-cycloheptatrien-1-yl)iron(1+), Fe-00505**C₁₀H₈Br₂Fe**

1,1'-Dibromoferrocene, Fe-00506

1,2-Dibromoferrocene, Fe-00507

C₁₀H₈Br₂FeMg₂ μ -1,1'-Ferrocenediylbis[bromomagnesium], Fe-00508**C₁₀H₈Cl₂Fe**

1,1'-Dichloroferrocene, Fe-00509

1,2-Dichloroferrocene, Fe-00510

C₁₀H₈Cl₂FeHg₂

1,1'-Bis(chloromercuri)ferrocene, Fe-00511

1,2-Bis(chloromercuri)ferrocene, Fe-00512

C₁₀H₈Cl₂FeO₄S₂

1,1'-Ferrocenedisulfonyl chloride, Fe-00513

C₁₀H₈Cl₂FeSi

(1,1'-Dichlorosilylene)ferrocene, Fe-00514

C₁₀H₈Cu₂Fe

1,1'-Ferrocenylenedicopper, Fe-00515

C₁₀H₈FeI₂

1,1'-Diiodoferrocene, Fe-00516

1,2-Diiodoferrocene, Fe-00517

C₁₀H₈FeLi₂

1,1'-Dilithioferrocene, Fe-00518

1,2-Dilithioferrocene, Fe-00519

C₁₀H₈FeN₂O₄Tricarbonyl[(4,5,6,7- η)-1*H*-1,2-diazepine]iron; 1-Ac, *in* Fe-00267**C₁₀H₈FeN₆**

1,1'-Diazidoferrocene, Fe-00520

C₁₀H₈FeNa₂ μ -1,1'-Ferrocenediylidisodium, Fe-00521**C₁₀H₈FeNa₂S₂O₄**Ferrocene-1,1'-disulfinic acid; Di-Na salt, *in* Fe-00592**C₁₀H₈FeO₂**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-1,2-propadienyliron, Fe-00522Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-1-propynyliron, Fe-00523

C₁₀H₈FeO₃

- [(1,5,6,7- η)-Bicyclo[3.2.0]hepta-5,7-diene]-
tricarbonyliron, Fe-00525
[(2,3,4,5- η)-Bicyclo[4.1.0]hepta-2,4-diene]-
tricarbonyliron, Fe-00526
[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene]-
tricarbonyliron, Fe-00524
Dicarbonyl[(η^5 -2,4-cyclopentadien-1-ylidene)(3-oxo-1,3-
propanediyl)]iron, Fe-00527
Tricarbonyl[(1,2,3,4- η)-1,3,5-cycloheptatriene]iron, Fe-00528
Tricarbonyl(spiro[2.4]hepta-4,6-diene)iron, Fe-00529

C₁₀H₈FeO₄

- [(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene-7-ol]-
tricarbonyliron, Fe-00530
Dicarbonyl(2-carboxyethenyl)(η^5 -2,4-cyclopentadien-1-
yl)iron, Fe-00531
Tricarbonyl[(2,3,4,5- η)-2,4-cycloheptadien-1-one]iron,
Fe-00532
Tricarbonyl[(3,4,5,6- η)-3,5-cycloheptadien-1-one]iron,
Fe-00533
Tricarbonyl[(1,2,3,4- η)-1,3-cyclohexadiene-1-
carboxaldehyde]iron, Fe-00534
Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadiene-1-
carboxaldehyde]iron, Fe-00535
Tricarbonyl[(1,3,4,5- η)-2-oxo-4-cycloheptene-1,3-diyl]-
iron, Fe-00537
Tricarbonyl[(1,3,4,5- η)-7-oxo-4-cycloheptene-1,3-diyl]-
iron, Fe-00536

C₁₀H₈FeO₅

- Tricarbonyl[(1,2,3,4- η)-1,3-cyclohexadiene-1-
carboxylic acid]iron, Fe-00538
Tricarbonyl[(1,2,5,6- η)-1,5-cyclohexadiene-1-
carboxylic acid]iron, Fe-00539
Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadiene-1-
carboxylic acid]iron, Fe-00540

C₁₀H₈FeO₈

- [(2,3- η)-2-Butene-1,4-dioic acid]tetracarbonyliron; Di-Me ester,
in Fe-00254

C₁₀H₈FeS₃

- 1,1'-Trithioferrocene, Fe-00541

C₁₀H₈FeSe₃

- 1,1'-Triselenoferrocene, Fe-00542

C₁₀H₉BCl₂Fe

- Dichloroborylferrocene, Fe-00543

C₁₀H₉BF₄FeO₃

- Tricarbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-
iron(1+); Tetrafluoroborate, *in* Fe-00557
Tricarbonyl[(1,2,3,4,5- η)-2-methyl-2,4-cyclohexadien-1-
yl]iron(1+); Tetrafluoroborate, *in* Fe-00559

C₁₀H₉BF₄FeO₄

- Tricarbonyl[(1,2,3,4,5- η)-3-methoxy-2,4-cyclohexadien-
1-yl]iron(1+); Tetrafluoroborate, *in* Fe-00561

C₁₀H₉BrFe

- Bromoferrocene, Fe-00544

C₁₀H₉BrFeMg

- Bromo(ferrocenyl)magnesium, Fe-00545

C₁₀H₉ClFe

- Chloroferrocene, Fe-00546

C₁₀H₉ClFeHg

- Chloromercuriferrocene, Fe-00547

C₁₀H₉ClFeO₂S

- Chlorosulfonylferrocene, *in* Fe-00580

C₁₀H₉ClFeO₇

- ▷ Tricarbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-
iron(1+); Perchlorate, *in* Fe-00557

C₁₀H₉FFe

- Fluoroferrocene, Fe-00548

C₁₀H₉F₆FeO₃P

- Tricarbonyl[(1,2,3,4,5- η)-2-methyl-2,4-cyclohexadien-1-
yl]iron(1+); Hexafluorophosphate, *in* Fe-00559

- Tricarbonyl[(1,2,3,4,5- η)-3-methyl-2,4-cyclohexadien-1-
yl]iron(1+); Hexafluorophosphate, *in* Fe-00560

C₁₀H₉FeI

- Iodoferrocene, Fe-00549

C₁₀H₉FeLi

- Lithioferrocene, Fe-00550

C₁₀H₉FeNO₂

- Dicarbonyl(cyano-C)[(1,2,3,4,5- η)-2,4-cycloheptadien-1-
yl]iron, Fe-00551
Nitroferrocene, Fe-00552

C₁₀H₉FeNO₂S

- 1,1'-(Iminosulfonyl)ferrocene, Fe-00553

C₁₀H₉FeNO₄

- Tricarbonyl[(1,2,3,4- η)-1,3-cyclohexadiene-1-
carboxylic acid]iron; Amide, *in* Fe-00538
Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadiene-1-
carboxylic acid]iron; Amide, *in* Fe-00540

C₁₀H₉FeNO₅

- (N-Carbomethoxy-1,2-dihydropyridine)tricarbonyliron, *in*
Fe-00373
Tricarbonyl[(1,2,3,4- η)-2-amino-3-(1,3-cyclobutadiene)-
propanoic acid]iron, Fe-00554

C₁₀H₉FeN₂[⊕]

- Ferrocenediazonium(1+), Fe-00555

C₁₀H₉FeN₃

- Azidoferrocene, Fe-00556

C₁₀H₉FeO₃[⊕]

- Tricarbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-
iron(1+), Fe-00557
Tricarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclohexadien-1-
yl]iron(1+), Fe-00558
Tricarbonyl[(1,2,3,4,5- η)-2-methyl-2,4-cyclohexadien-1-
yl]iron(1+), Fe-00559
Tricarbonyl[(1,2,3,4,5- η)-3-methyl-2,4-cyclohexadien-1-
yl]iron(1+), Fe-00560

C₁₀H₉FeO₄[⊕]

- Tricarbonyl[(1,2,3,4,5- η)-3-methoxy-2,4-cyclohexadien-
1-yl]iron(1+), Fe-00561

C₁₀H₉Fe₂NO₆S

- μ -Hexacarbonyl[μ -[2-methyl-2-(η^2 : η^2 -(thionitroso))-
propane]]diiron, Fe-00562

C₁₀H₁₀BF₄Fe

- Ferrocenium; Tetrafluoroborate, *in* Fe-00564

C₁₀H₁₀BiCl₄Fe

- Ferrocenium; Tetrachlorobismuthate, *in* Fe-00564

C₁₀H₁₀ClFe

- Ferrocenium; Chloride, *in* Fe-00564

C₁₀H₁₀CoF₉FeNOP₃

- Nitrosyltris(phosphorous trifluoride)ferrate(1-); Cobaltocenium
salt, *in* Fe-02211

C₁₀H₁₀F₆FeP

- Ferrocenium; Hexafluorophosphate, *in* Fe-00564

C₁₀H₁₀Fe

- ▷ Ferrocene, Fe-00563
Ferrocenium, Fe-00564

C₁₀H₁₀FeI₃

- Ferrocenium; Triiodide, *in* Fe-00564

C₁₀H₁₀FeNNaO₂

- Dicarbonyl(cyano-C)[(1,2,3,4- η)-1,3-cycloheptadiene]-
ferrate(1-); Na salt, *in* Fe-00565

C₁₀H₁₀FeNO₂[⊖]

- Dicarbonyl(cyano-C)[(1,2,3,4- η)-1,3-cycloheptadiene]-
ferrate(1-), Fe-00565

C₁₀H₁₀FeN₂O₄

- Carbonyl(ethoxyphenylmethylene)dinitrosyliron, Fe-00566

C₁₀H₁₀FeO

- Hydroxyferrocene, Fe-00567

$C_{10}H_{10}FeO_2$

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-2-propenyliron,
Fe-00568
1,1'-Dihydroxyferrocene, Fe-00569

 $C_{10}H_{10}FeO_2S$

Ferrocenesulfinic acid, Fe-00570

 $C_{10}H_{10}FeO_3$

Tricarbonyl[(1,2,3,4- η)-1,3-cycloheptadiene]iron, Fe-00571
Tricarbonyl[(1,3,4,5- η)-4-cycloheptene-1,3-diyl]iron, Fe-00572
Tricarbonyl[(1,2,3,4- η)-5,5-dimethyl-1,3-cyclopentadiene]iron, Fe-00573
Tricarbonyl[(3,4,5,6- η)-1,3,5-heptatriene]iron, Fe-00574
Tricarbonyl(isopropylcyclobutadiene)iron, Fe-00575
Tricarbonyl[(1,2,3,4- η)-1-methyl-1,3-cyclohexadiene]-iron, Fe-00577
Tricarbonyl[(1,2,3,4- η)-2-methyl-1,3-cyclohexadiene]-iron, Fe-00578
Tricarbonyl[(1,2,3,4- η)-5-methyl-1,3-cyclohexadiene]-iron, Fe-00576
Tricarbonyl[(1,2,3,4- η)-1,2,3-trimethyl-1,3-cyclobutadiene]iron, Fe-00579

 $C_{10}H_{10}FeO_3S$

Ferrocenesulfonic acid, Fe-00580

 $C_{10}H_{10}FeO_4$

[(Acetyloxy)methyl]dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, *in* Fe-00300
Tricarbonyl[(2,3,4,5- η)-2,4-cycloheptadien-1-ol]iron, Fe-00582
Tricarbonyl[(3,4,5,6- η)-3,5-cycloheptadien-1-ol]iron, Fe-00581
Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-2-one]iron, Fe-00583
Tricarbonyl[(1,2,3,4- η)-1-methoxy-1,3-cyclohexadiene]-iron, Fe-00584
Tricarbonyl[(1,2,3,4- η)-2-methoxy-1,3-cyclohexadiene]-iron, Fe-00585
Tricarbonyl[(1,2,3,4- η)-5-methoxy-1,3-cyclohexadiene]-iron, Fe-00586
Tricarbonyl[(2,3,4,5- η)-1-methyl-2,4-cyclopentadiene-1-methanol]iron, Fe-00587

 $C_{10}H_{10}FeO_5$

Tricarbonyl[η^4 -carbonyloxy(1,4-dimethyl-2-butene-1,4-diyl)]iron, Fe-00588
Tricarbonyl[(2,3,4,5- η)-2,4-hexadienoic acid]iron; Me ester, *in* Fe-00408

 $C_{10}H_{10}FeO_6S_2$

1,1'-Ferrocenedisulfonic acid, Fe-00589

 $C_{10}H_{10}FeS$

Mercaptoferrocene, Fe-00590

 $C_{10}H_{10}FeS_2$

1,1'-Dimercaptoferrocene, Fe-00591

 $C_{10}H_{10}FeS_2O_4$

Ferrocene-1,1'-disulfinic acid, Fe-00592

 $C_{10}H_{10}FeSe_2$

1,1'-Diselenylferrocene, Fe-00593

 $C_{10}H_{10}Fe_2N_2O_2$

Bis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(nitrosyl-*N:N*)]-diiron, Fe-00594

 $C_{10}H_{10}Fe_2O_6S_2$

Hexacarbonylbis[μ -(ethanethiolato)]diiron, Fe-00595

 $C_{10}H_{11}BF_4FeO_2$

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(1-methylethylidene)iron(1+); Tetrafluoroborate, *in* Fe-00605
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2- η)-1-propene]iron(1+); Tetrafluoroborate, *in* Fe-00606

 $C_{10}H_{11}BF_4FeO_3$

Dicarbonyl(η^6 -2,4-cyclopentadien-1-yl)(1-methoxyethylidene)iron(1+); Tetrafluoroborate, *in* Fe-00609

Tricarbonyl[(2,3,4,5,6- η)-3,5-heptadien-2-yl]iron(1+); Tetrafluoroborate, *in* Fe-00610

 $C_{10}H_{11}BFeO_2$

Ferroceneboronic acid, Fe-00596

 $C_{10}H_{11}F_6FeO_2PS_2$

[Bis(methylthio)methylene]dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-00607

 $C_{10}H_{11}F_6FeO_3P$

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2- η)-methoxyethene]iron(1+); Hexafluorophosphate, *in* Fe-00608
Dicarbonyl(η^6 -2,4-cyclopentadien-1-yl)(1-methoxyethylidene)iron(1+); Hexafluorophosphate, *in* Fe-00609

 $C_{10}H_{11}F_6FeO_3PSi$

Tricarbonyl[(2,3,4,5,6- η)-1,1-dimethylsilacyclohexa-3,5-dien-2-yl]iron(1+); Hexafluorophosphate, *in* Fe-00611

 $C_{10}H_{11}FeIN_2O$

Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-bis(isocyanomethane)iron(1+); Iodide, *in* Fe-00604

 $C_{10}H_{11}FeIO_2$

Dicarbonyl[(1,2,3,4,5- η)-2,4-cyclooctadien-1-yl]-iodoiron, Fe-00597

 $C_{10}H_{11}FeN$

Aminoferrocene, Fe-00598
2-Methylazaferrocene, Fe-00599

 $C_{10}H_{11}FeNO$

(Hydroxyamino)ferrocene, Fe-00600

 $C_{10}H_{11}FeNO_2S_2$

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(dimethylcarbamodithioato-*S*)iron, Fe-00601

 $C_{10}H_{11}FeNO_3$

Tricarbonyl[(dimethylaminomethyl)cyclobutadiene]iron, Fe-00602

 $C_{10}H_{11}FeNO_4$

(4-Acetyl- π -cyclohexenyl)dicarbonylnitrosyliron, Fe-00603

 $C_{10}H_{11}FeN_2O^{\oplus}$

Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-bis(isocyanomethane)iron(1+), Fe-00604

 $C_{10}H_{11}FeO_2^{\oplus}$

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(1-methylethylidene)iron(1+), Fe-00605
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2- η)-1-propene]iron(1+), Fe-00606

 $C_{10}H_{11}FeO_2S_2^{\oplus}$

[Bis(methylthio)methylene]dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00607

 $C_{10}H_{11}FeO_3^{\oplus}$

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2- η)-methoxyethene]iron(1+), Fe-00608
Dicarbonyl(η^6 -2,4-cyclopentadien-1-yl)(1-methoxyethylidene)iron(1+), Fe-00609
Tricarbonyl[(2,3,4,5,6- η)-3,5-heptadien-2-yl]iron(1+), Fe-00610

 $C_{10}H_{11}FeO_3Si^{\oplus}$

Tricarbonyl[(2,3,4,5,6- η)-1,1-dimethylsilacyclohexa-3,5-dien-2-yl]iron(1+), Fe-00611

 $C_{10}H_{12}As_2Fe_2O_6$

Hexacarbonylbis[μ -(dimethylarsino)]diiron, Fe-00612

 $C_{10}H_{12}B_2Fe$

Bis(η^6 -boratabenzene)iron, Fe-00613

 $C_{10}H_{12}B_2FeO_4$

1,1'-Ferrocenediboronic acid, Fe-00614

 $C_{10}H_{12}F_6FeNO_3P$

Dicarbonylnitrosyl[(1,2,3,4- η)-1,2,3,4-tetramethyl-1,3-cyclobutadiene]iron(1+); Hexafluorophosphate, *in* Fe-00615

C₁₀H₁₂FeNO₃[⊕]Dicarbonylnitrosyl[(1,2,3,4- η)-1,2,3,4-tetramethyl-1,3-cyclobutadiene]iron(1+), Fe-00615**C₁₀H₁₂FeN₂**

1,1'-Diaminoferrocene, Fe-00616

C₁₀H₁₂FeN₂O₄S₂

1,1'-Bis(aminosulfonyl)ferrocene, Fe-00617

C₁₀H₁₂FeN₆

Di(cyano-C)tetrakis(isocyanomethane)iron, Fe-00618

C₁₀H₁₂FeOCarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2,3- η)-2-methyl-2-propenyl]iron, Fe-00619**C₁₀H₁₂FeO₂**Dicarbonyl- π -cyclopentadienylisopropyliron, Fe-00620Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)propyliron, Fe-00621**C₁₀H₁₂FeO₃Si**Tricarbonyl[(2,3,4,5- η)-1,1-dimethylsilacyclohexa-2,4-diene]iron, Fe-00622**C₁₀H₁₂FeO₄**Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-1-ol]iron, Fe-00623Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-2-ol]iron, Fe-00624Tricarbonyl[(4,5,6,7- η)-4,6-heptadien-3-ol]iron, Fe-00625**C₁₀H₁₂Fe₂O₆P₂**Hexacarbonylbis[μ -(dimethylphosphino)]diiron, Fe-00626**C₁₀H₁₃BF₄FeO₂S**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(dimethylsulfonium- η -methylide)iron(1+); Tetrafluoroborate, *in* Fe-00628**C₁₀H₁₃FeNO₃**Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-2-amine]iron, Fe-00627**C₁₀H₁₃FeO₂S[⊕]**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(dimethylsulfonium- η -methylide)iron(1+), Fe-00628**C₁₀H₁₄BF₄FeO₂P**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trimethylphosphine)iron(1+); Tetrafluoroborate, *in* Fe-00632**C₁₀H₁₄Fe**Bis(η^5 -2,4-pentadienyl)iron, Fe-00629**C₁₀H₁₄FeGeO₂**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trimethylgermyl)-iron, Fe-00630**C₁₀H₁₄FeNOP**Carbonyl(cyano-C)(η^5 -2,4-cyclopentadien-1-yl)-(trimethylphosphine)iron, Fe-00631**C₁₀H₁₄FeO₂P[⊕]**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trimethylphosphine)iron(1+), Fe-00632**C₁₀H₁₄FeO₂Pb**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trimethylplumbyl)iron, Fe-00633**C₁₀H₁₄FeO₂Si**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trimethylsilyl)-iron, Fe-00634**C₁₀H₁₄FeO₂Sn**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trimethylstannyl)iron, Fe-00635**C₁₀H₁₄FeO₄Si**[[(η^4 -1,3-Butadienyl)oxy]trimethylsilane]-tricarbonyliron, *in* Fe-00203**C₁₀H₁₄FeO₅P[⊕]**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trimethylphosphite-*P*)iron(1+), Fe-00636**C₁₀H₁₅BF₄FeINO₂**[(3,4,5- η)-1-*tert*-Butyl-2,3-dihydro-2-methyl-1*H*-1,2-azaborol-3-yl-*B*²,*N*¹]iodoiron, Fe-00637**C₁₀H₁₅FeNO₅**Acetyltetracarbonylferrate(1-); Tetramethylammonium salt, *in* Fe-00108**C₁₀H₁₅FeO₄P**

Tetracarbonyl(triethylphosphine)iron, Fe-00638

C₁₀H₁₅FeO₇PTetracarbonyl(triethyl phosphite-*P*)iron, Fe-00639**C₁₀H₁₆ClFeO₄P**Carbonylchloro[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](trimethyl phosphite)iron, Fe-00640**C₁₀H₁₆FeIO₄P**Carbonyliodo[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](trimethyl phosphite-*P*)iron, Fe-00641**C₁₀H₁₆FeO₄Si₂**

Tetracarbonyl[1,2-ethanediylbis(dimethylsilylene)]iron, Fe-00642

C₁₀H₁₇FeOPCarbonyl(η^5 -2,4-cyclopentadien-1-yl)-methyl(trimethylphosphine)iron, Fe-00643**C₁₀H₁₈FeGe₂O₄**

Tetracarbonylbis(trimethylgermyl)iron, Fe-00644

C₁₀H₁₈FeO₄Si₂

Tetracarbonylbis(trimethylsilyl)iron, Fe-00645

C₁₀H₁₈FeO₄Sn₂

Tetracarbonylbis(trimethylstannyl)iron, Fe-00646

C₁₀H₁₉F₆FeO₃PTricarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclohexadien-1-yl]iron(1+); Hexafluorophosphate, *in* Fe-00558**C₁₀H₂₀FeN₆O₂**

Bis(1,3-dimethyl-2-imidazolidinylidene)dinitrosyliron, Fe-00647

C₁₀H₂₁FeIO₃P₂

Acetyldicarbonyliodobis(trimethylphosphine)iron, Fe-00648

C₁₀H₂₂FeO₈P₂Dicarbonyl(η^2 -ethene)bis(trimethyl phosphite-*P*)iron, Fe-00649**C₁₀H₂₄FeO₂P₂**

Dicarbonyldimethylbis(trimethylphosphine)iron, Fe-00650

C₁₀H₂₇B₉FeN(η^5 -2,4-Cyclopentadien-1-yl)[η^6 -decahydrocarbadeborato(2-)]ferrate(1-); Tetramethylammonium salt, *in* Fe-00141**C₁₀H₂₈FeIOP₃**

Carbonylhydroiodotris(trimethylphosphine)iron, Fe-00651

C₁₁Fe₃O₁₁[⊖]Di- μ_3 -carbonylnonacarbonyltriferrate(2-), Fe-00652**C₁₁HFe₃O₁₁[⊖]** μ -Carbonyldecacarbonyl- μ -hydrotriferrate(1-), Fe-00653**C₁₁H₃Fe₃O₁₀[⊖]**[μ_3 -[(*C*- η :*C*,*O*- η)-Acetyl-*O*]]nonacarbonyltriferrate(1-), Fe-00654**C₁₁H₄FeO₆**

1,3-Benzodioxol-2-ylidenetetracarbonyliron, Fe-00655

C₁₁H₄Fe₂N₂O₇ μ -Carbonylhexacarbonyl[μ -(pyridazine-*N*²,*N*³)]diiron, Fe-00656**C₁₁H₅CoFeO₆**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(tetracarbonylcobalt)iron, Fe-00657**C₁₁H₅FeNO₄**

Tetracarbonyl(isocyanobenzene)iron, Fe-00658

C₁₁H₅FeO₅[⊖]

Benzoyltetracarbonylferrate(1-), Fe-00659

C₁₁H₅FeO₅TlBenzoyltetracarbonylferrate(1-); Tl(1+) salt, *in* Fe-00659**C₁₁H₆Cl₂FeO₅**Tricarbonyl[(1,2,3,4- η)-1,2-bis(2-chloroacetyl)-1,3-cyclobutadiene]iron, Fe-00660

$C_{11}H_6FeN_2O_2$ Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,2-dicyanoethenyl)iron, Fe-00661 **$C_{11}H_6FeO_3$** [(1,6,7,8- η)-Bicyclo[4.2.0]octa-1,3,5,7-tetraene]-tricarbonyliron, Fe-00662 **$C_{11}H_6Fe_2N_2O_8$** Octacarbonyl[μ -(3,3-dimethyl-3*H*-diazirine-*N*¹,*N*²)]-diiron, Fe-00663 **$C_{11}H_6Fe_3N_2O_9$** Nonacarbonylbis[μ_3 -[methanaminato(2-)]triiron, Fe-00664
Nonacarbonyl[μ_3 -[ethanaminato(2-)]- μ_3 -imidotriiron, Fe-00665 **$C_{11}H_6Fe_3O_9$** Nonacarbonyl- μ_3 -ethylidynetri- μ -hydrotriiron, Fe-00666 **$C_{11}H_7FeIO_2$** Dicarbonyl[(1,2,3,3*a*,7*a*- η)-1*H*-inden-1-yl]iodoiron, Fe-00667 **$C_{11}H_7FeNaO_2$** Dicarbonyl[(1,2,3,3*a*,7*a*- η)-1*H*-inden-1-yl]ferrate(1-); Na salt, *in* Fe-00668 **$C_{11}H_7FeO_2^{\ominus}$** Dicarbonyl[(1,2,3,3*a*,7*a*- η)-1*H*-inden-1-yl]ferrate(1-), Fe-00668 **$C_{11}H_7FeO_4^{\ominus}$**

Benzyltetracarbonylferrate(1-), Fe-00669

 $C_{11}H_7Fe_3NO_9$ Nonacarbonyl[μ_3 -[ethanaminato(2-)]di- μ -hydrotriiron, Fe-00670 **$C_{11}H_8FeNNaO_2$** Dicarbonyl(cyano-*C*)[(1,2,3,4- η)-1,3,5,7-cyclooctatetraene]ferrate(1-); Na salt, *in* Fe-00671 **$C_{11}H_8FeNO_2^{\ominus}$** Dicarbonyl(cyano-*C*)[(1,2,3,4- η)-1,3,5,7-cyclooctatetraene]ferrate(1-), Fe-00671 **$C_{11}H_8FeO_3$** [(2,3,4,8- η)-Bicyclo[3.2.1]octa-3,6-diene-2,8-diyl]-tricarbonyliron, Fe-00672[(2,3,4,5- η)-Bicyclo[4.2.0]octa-2,4,7-triene]-tricarbonyliron, Fe-00673[η^4 -5,6-Bis(methylene)-1,3-cyclohexadiene]-tricarbonyliron, Fe-00674Tricarbonyl[(1,2,3,4- η)-1,3,5,7-cyclooctatetraene]iron, Fe-00675Tricarbonyl[(1,2,3,4- η)-1,2-divinyl-1,3-cyclobutadiene]-iron, Fe-00676Tricarbonyl[(1,2,3,4- η)-7-methylene-1,3,5-cycloheptatriene]iron, Fe-00678Tricarbonyl[(1,6,7,1'- η)-7-methylene-1,3,5-cycloheptatriene]iron, Fe-00677 **$C_{11}H_8FeO_4$** [(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene-2-carboxaldehyde]tricarbonyliron, Fe-00679[(2,3,4,5- η)-Bicyclo[4.2.0]octa-2,4-dien-7-one]-tricarbonyliron, Fe-00680[(3,4,5,6- η)-Bicyclo[5.1.0]octa-3,5-dien-2-one]-tricarbonyliron, Fe-00681Tricarbonyl[(3,4,5,6- η)-1,3,5-cycloheptatriene-1-carboxaldehyde]iron, Fe-00682Tricarbonyl[(2,3,4,5- η)-2,4,6-cyclooctatrien-1-one]-iron, Fe-00683 **$C_{11}H_8FeO_5$**

Tricarbonyl(1,3,5-cycloheptatriene-1-carboxylic acid)iron, Fe-00684

Tricarbonyl(1,2-diacetyl-1,3-cyclobutadiene)iron, Fe-00685

 $C_{11}H_8FeO_7$ Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1,2-dicarboxylic acid]iron; Di-Me ester, *in* Fe-00345 **$C_{11}H_8Fe_2O_3$** μ -Carbonyldicarbonylbis(η^4 -1,3-cyclobutadiene)diiron, Fe-00686 **$C_{11}H_9BF_4FeO_3$** [(2,3,4,6,7- η)-Bicyclo[3.2.1]octa-3,6-diene-2,8-diyl]-tricarbonyliron(1+); Tetrafluoroborate, *in* Fe-00699[(2,3,4,5,6- η)-Bicyclo[5.1.0]octa-3,5-dien-2-yl]-tricarbonyliron(1+); Tetrafluoroborate, *in* Fe-00700 **$C_{11}H_9ClFeO$** (Chlorocarbonyl)ferrocene, *in* Fe-00711 **$C_{11}H_9ClFeO_2$** Dicarbonyl(4-chloro-2-cyclobuten-1-yl)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00687 **$C_{11}H_9ClFeO_3$** Tricarbonylchloro[(1,2,3- η)-2,4,7-cyclooctatrien-1-yl]-iron, Fe-00688 **$C_{11}H_9F_6FeO_2P$** Dicarbonyl[(1,2- η)-1,3-cyclobutadiene](η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-00698 **$C_{11}H_9FeIO_3$** Tricarbonyl[(1,2,3- η)-2,4,7-cyclooctatrien-1-yl]-iodoiron, Fe-00689 **$C_{11}H_9FeN$**

Cyanoferrocene, Fe-00690

 $C_{11}H_9FeNO$

Isocyanatoferrocene, Fe-00691

 $C_{11}H_9FeNO_2$ Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^1 -1-pyrrolyl)-iron, Fe-00692 **$C_{11}H_9FeNO_3$** Dicarbonylnitrosyl[(1,2,3- η)-1-phenyl-2-propenyl]iron, Fe-00693Tricarbonyl[(1,4,5,6- η)-7-cyano-5-cycloheptene-1,4-diyl]iron, Fe-00694Tricarbonyl[(2,3,4,5- η)-2,4-cycloheptadiene-1-carbonitrile]iron, Fe-00695 **$C_{11}H_9FeNO_5$** [(2,3,4,5- η)-1*H*-Azepine-1-carboxylic acid]tricarbonyliron; Me ester, *in* Fe-00503 **$C_{11}H_9FeNS$**

Thiocyanatoferrocene, Fe-00696

 $C_{11}H_9FeNSe$

Selenocyanatoferrocene, Fe-00697

 $C_{11}H_9FeO_2^{\oplus}$ Dicarbonyl[(1,2- η)-1,3-cyclobutadiene](η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00698 **$C_{11}H_9FeO_3^{\oplus}$** [(2,3,4,6,7- η)-Bicyclo[3.2.1]octa-3,6-diene-2,8-diyl]-tricarbonyliron(1+), Fe-00699[(2,3,4,5,6- η)-Bicyclo[5.1.0]octa-3,5-dien-2-yl]-tricarbonyliron(1+), Fe-00700Tricarbonyl[(1,2,3,4,5- η)-2,4,6-cyclooctatrien-1-yl]-iron(1+), Fe-00701 **$C_{11}H_{10}BBrF_4Fe$** (η^6 -Bromobenzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-00702 **$C_{11}H_{10}BClF_4Fe$** (η^6 -Benzene)(η^5 -1-chloro-2,4-cyclopentadien-1-yl)-iron(1+); Tetrafluoroborate, *in* Fe-00703(η^6 -Chlorobenzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-00704 **$C_{11}H_{10}BrFe^{\ominus}$** (η^6 -Bromobenzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00702 **$C_{11}H_{10}ClF_6FeP$** (η^6 -Benzene)(η^5 -1-chloro-2,4-cyclopentadien-1-yl)-iron(1+); Hexafluorophosphate, *in* Fe-00703(η^6 -Chlorobenzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-00704 **$C_{11}H_{10}ClFe^{\oplus}$** (η^6 -Benzene)(η^5 -1-chloro-2,4-cyclopentadien-1-yl)-iron(1+), Fe-00703

- (η^6 -Chlorobenzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00704
- C₁₁H₁₀FFe[⊕]**
(η^5 -2,4-Cyclopentadien-1-yl)(η^6 -fluorobenzene)iron(1+), Fe-00705
- C₁₁H₁₀F₆FeNO₂P**
(η^5 -2,4-Cyclopentadien-1-yl)(η^6 -nitrobenzene)iron(1+); Hexafluorophosphate, *in* Fe-00706
- C₁₁H₁₀F₇FeP**
(η^5 -2,4-Cyclopentadien-1-yl)(η^6 -fluorobenzene)iron(1+); Hexafluorophosphate, *in* Fe-00705
- C₁₁H₁₀FeNO₂[⊕]**
(η^5 -2,4-Cyclopentadien-1-yl)(η^6 -nitrobenzene)iron(1+), Fe-00706
- C₁₁H₁₀FeN₂O₄**
Tricarbonyl[(4,5,6,7- η)-3-methyl-1*H*-1,2-diazepine]iron; 1-Ac, *in* Fe-00382
Tricarbonyl[(4,5,6,7- η)-5-methyl-1*H*-1,2-diazepine]iron; 1-Ac, *in* Fe-00383
- C₁₁H₁₀FeN₂O₅**
Tricarbonyl[(4,5,6,7- η)-1*H*-1,2-diazepine-1-carboxylic acid]iron; Et ester, *in* Fe-00351
- C₁₁H₁₀FeO**
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-6-oxo-2,4-cyclohexadien-1-yl]iron, Fe-00707
Ferrocenecarboxaldehyde, Fe-00708
- C₁₁H₁₀FeOS**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)[(2,3,6- η)-3-methylenethiophene]iron, Fe-00709
(Thiocarboxy)ferrocene, Fe-00710
- C₁₁H₁₀FeO₂**
Ferrocenecarboxylic acid, Fe-00711
- C₁₁H₁₀FeO₃**
[(2,3,4,5- η)-Bicyclo[4.2.0]octa-2,4-diene]-tricarbonyliron, Fe-00712
[(2,3,4,5- η)-Bicyclo[5.1.0]octa-2,4-diene]-tricarbonyliron, Fe-00713
[(2,3,6,7- η)-Bicyclo[3.2.1]octa-3,6-diene]-tricarbonyliron, Fe-00714
2-Hydroxy-1-ferrocenecarboxylic acid, Fe-00715
Tricarbonyl[(1,2,3,4- η)-1,3,5-cyclooctatriene]iron, Fe-00716
- C₁₁H₁₀FeO₄**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(3-methoxy-3-oxo-1-propenyl)iron, *in* Fe-00531
Tricarbonyl(1-acetyl-1,3-cyclohexadiene)iron, Fe-00717
Tricarbonyl(1-acetyl-2,4-cyclohexadiene)iron, Fe-00718
Tricarbonyl[(3,4,5,6- η)-1,3,5-cycloheptatriene-1-methanol]iron, Fe-00719
Tricarbonyl[(4,5,6,7- η)-2,4,6-cyclooctatrien-1-ol]iron, Fe-00720
Tricarbonyl[(2,3,4,5- η)-6,6-dimethyl-2,4-cyclohexadien-1-one]iron, Fe-00721
Tricarbonyl[(2,3,5,6- η)-4,4-dimethyl-2,5-cyclohexadien-1-one]iron, Fe-00722
Tricarbonyl[(2,3,4,5- η)-2,7-dimethyloxepin]iron, Fe-00723
- C₁₁H₁₀FeO₅**
Tricarbonyl[(1,2,3,4- η)-1,3-cyclohexadiene-1-carboxylic acid]iron; Me ester, *in* Fe-00538
Tricarbonyl[(1,2,5,6- η)-1,5-cyclohexadiene-1-carboxylic acid]iron; Me ester, *in* Fe-00539
Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadiene-1-carboxylic acid]iron; Me ester, *in* Fe-00540
- C₁₁H₁₀FeO₆**
[(3,4,5,6- η)-6-(Acetyloxy)-3,5-hexadien-2-one]-tricarbonyliron, Fe-00724
- C₁₁H₁₀FeO₇**
[η^4 -1,3-Dicarboxy-2-methylene-1,3-propanediyl]-tricarbonyliron; Di-Me ester, *in* Fe-00359
Tricarbonyl(η^4 -2-ethenyl-2-butenedioic acid)iron; Di-Me ester, *in* Fe-00360
- Tricarbonyl[(2,3,4,5- η)-2,4-hexadienedioic acid]iron; Di-Me ester, *in* Fe-00361
- C₁₁H₁₀FeS**
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-6-thioxo-2,4-cyclohexadien-1-yl]iron, Fe-00725
- C₁₁H₁₀FeS₂**
(Dithiocarboxy)ferrocene, Fe-00726
- C₁₁H₁₀Fe₂OS₄**
Carbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(dithio-S:S,S')diiron, Fe-00727
- C₁₁H₁₁BF₄Fe**
(η^6 -Benzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-00734
- C₁₁H₁₁BF₄FeO₃**
Tricarbonyl[(1,2,3,4,5- η)-2,4-cyclooctadien-1-yl]iron(1+); Tetrafluoroborate, *in* Fe-00744
Tricarbonyl[(1,2,3,5,6- η)-2,5-cyclooctadien-1-yl]iron(1+); Tetrafluoroborate, *in* Fe-00745
- C₁₁H₁₁BrFe**
[(1,2,3,4,5- η)-1-Bromo-2,4-cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00728
- C₁₁H₁₁ClFe**
(η^6 -Benzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Chloride, *in* Fe-00734
[(1,2,3,4,5- η)-1-Chloro-2,4-cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00729
[(1,2,3,4,5- η)-2-Chloro-2,4-cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00730
(Chloromethyl)ferrocene, Fe-00731
1-Chloro-2-methylferrocene, Fe-00732
- C₁₁H₁₁F₆FeOP**
(η^5 -2,4-Cyclopentadien-1-yl)(η^6 -phenol)iron(1+); Hexafluorophosphate, *in* Fe-00741
- C₁₁H₁₁F₆FeP**
(η^6 -Benzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-00734
- C₁₁H₁₁F₆FePS**
(η^6 -Benzenethiol)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-00747
- C₁₁H₁₁Fe**
(η^6 -Benzene)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00733
(η^6 -Benzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00734
- C₁₁H₁₁FeI**
(η^6 -Benzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Iodide, *in* Fe-00734
- C₁₁H₁₁FeN**
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-6-imino-2,4-cyclohexadien-1-yl]iron, Fe-00735
- C₁₁H₁₁FeNO**
Ferrocenecarboxaldehyde; Oxime, α -form, *in* Fe-00708
Ferrocenecarboxamide, Fe-00736
- C₁₁H₁₁FeNO₂**
[(2,3,4,5- η)-1*H*-Azepine-1-carboxylic acid](η^4 -1,3-cyclobutadiene)iron, Fe-00737
Dicarbonyl(cyano-C)[(1,2,3,4,5- η)-2,4-cyclooctadien-1-yl]iron, Fe-00738
1-Methyl-1'-nitroferrocene, Fe-00739
- C₁₁H₁₁FeNO₅**
(*N*-Carboethoxy-1,2-dihydropyridine)tricarbonyliron, *in* Fe-00373
- C₁₁H₁₁FeN₃**
(Azidomethyl)ferrocene, Fe-00740
- C₁₁H₁₁FeO[⊕]**
(η^5 -2,4-Cyclopentadien-1-yl)(η^6 -phenol)iron(1+), Fe-00741
- C₁₁H₁₁FeOP**
[(1,2,3,4,5- η)-2-Acetyl-1*H*-phosphol-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00742
[(1,2,3,4,5- η)-3-Acetyl-1*H*-phosphol-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00743

$C_{11}H_{11}FeO_3^{\oplus}$

Tricarbonyl[(1,2,3,4,5- η)-2,4-cyclooctadien-1-yl]-iron(1+), Fe-00744
 Tricarbonyl[(1,2,3,5,6- η)-2,5-cyclooctadien-1-yl]-iron(1+), Fe-00745

 $C_{11}H_{11}FeP$

1,1'-(Methylphosphinidene)ferrocene, Fe-00746

 $C_{11}H_{11}FeS^{\oplus}$

(η^6 -Benzenethioi)(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00747

 $C_{11}H_{12}BF_4FeN$

(η^5 -1-Amino-2,4-cyclopentadien-1-yl)(η^6 -benzene)-iron(1+); Tetrafluoroborate, *in* Fe-00750
 (η^6 -Aniline)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-00751

 $C_{11}H_{12}F_6FeNP$

(η^5 -1-Amino-2,4-cyclopentadien-1-yl)(η^6 -benzene)-iron(1+); Hexafluorophosphate, *in* Fe-00750
 (η^6 -Aniline)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-00751

 $C_{11}H_{12}Fe$

[(1,2,3,4,5- η)-2,4-Cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00748
 Methylferrocene, Fe-00749

 $C_{11}H_{12}FeN^{\oplus}$

(η^5 -1-Amino-2,4-cyclopentadien-1-yl)(η^6 -benzene)-iron(1+), Fe-00750
 (η^6 -Aniline)(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00751

 $C_{11}H_{12}FeO$

Ferrocenemethanol, Fe-00752
 Methoxyferrocene, *in* Fe-00567

 $C_{11}H_{12}FeO_3$

Tricarbonyl[(1,2,3,4- η)-1,3-cyclooctadiene]iron, Fe-00753
 Tricarbonyl(1,2,5,6- η)-1,5-cyclooctadieneiron, Fe-00754
 Tricarbonyl[(1,4,5,6- η)-5-cyclooctene-1,4-diyl]iron, Fe-00755
 Tricarbonyl[(1,2,3,4- η)-5,5-dimethyl-1,3-cyclohexadiene]iron, Fe-00756
 Tricarbonyl[(1,2,3,4- η)-1,2,3,4-tetramethyl-1,3-cyclobutadiene]iron, Fe-00757

 $C_{11}H_{12}FeO_3S$

Ferrocenesulfonic acid; Me ester, *in* Fe-00580

 $C_{11}H_{12}FeO_5$

(Ethyl sorbate)iron tricarbonyl, *in* Fe-00408

 $C_{11}H_{12}FeO_6$

Tetracarbonyl(4,4,5,5-tetramethyl-1,3-dioxolan-2-ylidene)iron, Fe-00758

 $C_{11}H_{12}FeO_7$

Tricarbonylbis[(2,3- η)-methyl-2-propenoate]iron, Fe-00759

 $C_{11}H_{12}FeS$

(Mercaptomethyl)ferrocene, Fe-00760
 (Methylthio)ferrocene, Fe-00761

 $C_{11}H_{12}FeSO_2$

Methylsulfonylferrocene, *in* Fe-00761

 $C_{11}H_{12}Fe_2Ge_2O_7$

μ -Carbonylhexacarbonylbis[μ -(dimethylgermylene)]diiron, Fe-00762

 $C_{11}H_{12}Fe_2N_2O_2$

Bis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylenedinitrosyldiiron, Fe-00763

 $C_{11}H_{12}Fe_2O_7Si_2$

μ -Carbonylhexacarbonylbis[μ -(dimethylsilylene)]diiron, Fe-00764

 $C_{11}H_{13}AsFe$

(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-2,5-dimethyl-1*H*-arsol-1-yl]iron, Fe-00765

 $C_{11}H_{13}BF_4FeO_2$

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2- η)-2-methyl-1-propene]iron(1+); Tetrafluoroborate, *in* Fe-00769

 $C_{11}H_{13}BF_4FeO_4$

Tetracarbonyl[(2,3,4- η)-2,4-dimethyl-2-penten-4-yl]-iron(1+); Tetrafluoroborate, *in* Fe-00771
 Tetracarbonyl[(1,2,3- η)-1,1,3-trimethyl-2-butenyl]-iron(1+); Tetrafluoroborate, *in* Fe-00772

 $C_{11}H_{13}BFe$

(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-1-methylboratabenzene]iron, Fe-00766

 $C_{11}H_{13}F_6FeO_4P$

Tricarbonyl[(1,2,3- η)-1,4-dimethyl-5-oxo-2-hexenyl-*O*]-iron(1+); Hexafluorophosphate, *in* Fe-00773

 $C_{11}H_{13}FeN$

(Aminomethyl)ferrocene, Fe-00767
 1-Amino-2-methylferrocene, Fe-00768
 Methylaminoferrocene, *in* Fe-00598

 $C_{11}H_{13}FeO_2^{\oplus}$

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2- η)-2-methyl-1-propene]iron(1+), Fe-00769

 $C_{11}H_{13}FeO_3^{\oplus}$

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(tetrahydrofuran)-iron(1+), Fe-00770

 $C_{11}H_{13}FeO_4^{\oplus}$

Tetracarbonyl[(2,3,4- η)-2,4-dimethyl-2-penten-4-yl]-iron(1+), Fe-00771
 Tetracarbonyl[(1,2,3- η)-1,1,3-trimethyl-2-butenyl]-iron(1+), Fe-00772
 Tricarbonyl[(1,2,3- η)-1,4-dimethyl-5-oxo-2-hexenyl-*O*]-iron(1+), Fe-00773

 $C_{11}H_{13}FeP$

(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-1-yl]iron, Fe-00774

 $C_{11}H_{14}Fe$

(η^4 -1,3-Butadiene)[(1,2,3,4,5,6- η)-methylbenzene]iron, Fe-00775

 $C_{11}H_{14}FeINO_3$

Tricarbonyl[(1,2,3,4- η)-*N,N,N*-trimethyl-1,3-cyclobutadiene-1-methanaminiumiron(1+)] iodide, *in* Fe-00602

 $C_{11}H_{14}FeIN_3$

(η^5 -2,4-Cyclopentadien-1-yl)tris(isocyanomethane)-iron(1+); Iodide, *in* Fe-00776

 $C_{11}H_{14}FeN_3^{\oplus}$

(η^5 -2,4-Cyclopentadien-1-yl)tris(isocyanomethane)-iron(1+), Fe-00776

 $C_{11}H_{14}FeO_2$

tert-Butyldicarbonyl- π -cyclopentadienyliron, Fe-00777
 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2-methylpropyl)-iron, Fe-00778

 $C_{11}H_{14}FeO_4$

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,2'-dimethoxyethyl)iron, Fe-00779

 $C_{11}H_{15}F_2FeN_6O_6S_2$

(Cyano-*C*)pentakis(isocyanomethane)iron(2+); Bis(fluorosulfate), *in* Fe-00781

 $C_{11}H_{15}FeNO_3$

(η^4 -*N*-2-Butenylidene-2-methyl-2-propanamine)-tricarbonyliron, Fe-00780

 $C_{11}H_{15}FeN_6^{\oplus\oplus}$

(Cyano-*C*)pentakis(isocyanomethane)iron(2+), Fe-00781

 $C_{11}H_{15}FeO_4PS$

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(*O,O*-diethylphosphorothioito-*P*)iron, Fe-00782

 $C_{11}H_{16}B_2FeO_3S$

Tricarbonyl[(1,2,3,4,5- η)-3,4-diethyl-2,5-dihydro-2,5-dimethyl-1,2,5-thiadiborole]iron, Fe-00783

 $C_{11}H_{16}FeN_2O_3$

Tricarbonyl[*N,N'*-1,2-ethanediyldienebis[2-propanamine]-*N,N'*]iron, Fe-00784

 $C_{11}H_{17}FeO_2P$

Acetylcarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trimethylphosphine)iron, Fe-00785

▷ Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-); Tetramethylphosphonium salt, *in* Fe-00194

C₁₁H₁₈FeO₄P

Carbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-iodo(trimethyl phosphite-*P*)iron, Fe-00786

C₁₁H₂₀FeI₃NO₃

Tricarbonyltriiodoferrate(1-); Tetraethylammonium salt, *in* Fe-00016

C₁₁H₂₁FeO₃P

Bis(η^4 -1,3-butadiene)(trimethyl phosphite-*P*)iron, Fe-00787

C₁₁H₂₂FeO₇P₂

Carbonyl(η^4 -1,3-cyclobutadiene)bis(trimethyl phosphite-*P*)iron, Fe-00788

C₁₁H₂₃B₉Fe

[(1,2,3,4,5,6- η)-Methylbenzene][(7,8,9,10,11- η)-1,2,3,4,5,6,8,10,11-nonahydro-7,9-dimethyl-7,9-dicarbaundecaborato(2-)]iron, Fe-00789
[(1,2,3,4,5,6- η)-1,3,5-Trimethylbenzene][(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]iron, Fe-00790

C₁₁H₂₃FeI₂P₂

(η^5 -2,4-Cyclopentadien-1-yl)iodobis(trimethylphosphine)-iron, Fe-00791

C₁₁H₂₇FeI₂O₂P₃[⊕]

Dicarbonyliodotris(trimethylphosphine)iron(1+), Fe-00792

C₁₁H₂₇FeI₄O₂P₃

Dicarbonyliodotris(trimethylphosphine)iron(1+); Triiodide, *in* Fe-00792

C₁₁H₂₇FeO₁₁P₃

Dicarbonyltris(trimethyl phosphite-*P*)iron, Fe-00793

C₁₁H₂₈B₉FeN

(η^5 -2,4-Cyclopentadien-1-yl)[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]-ferrate(1-); Tetramethylammonium salt, *in* Fe-00234

C₁₂FeNO₁₃Ru₃[⊖]

Tri- μ -carbonylnonacarbonyl(nitrosylferrate)-triruthenate(1-), Fe-00794

C₁₂FeO₁₂Os₂

Dodecacarbonylirondiosmium, Fe-00795

C₁₂FeO₁₂Ru₂

Octacarbonyl(tetracarbonyliron)diruthenium, Fe-00796

C₁₂Fe₂MnO₁₂[⊖]

Tetracarbonyl(di- μ -carbonylhexacarbonyldiferrate)-manganate(1-), Fe-00797

C₁₂Fe₂O₁₂Os

Tetracarbonyl(di- μ -carbonylhexacarbonyldiiron)osmium, Fe-00798

C₁₂Fe₂O₁₂Ru

Tetracarbonyl(di- μ -carbonylhexacarbonyldiiron)-ruthenium, Fe-00799

C₁₂Fe₃O₁₂[⊖]

Di- μ -carbonyldodecacarbonyltriferrate(1-), Fe-00800
Dodecacarbonyltriiron, Fe-00801

C₁₂Fe₄NO₁₂[⊖]

Dodecacarbonyl- μ_4 -nitridotetraferrate(1-), Fe-00802

C₁₂Fe₄N₄O₁₆Sn

Dodecacarbonyltetranitrosyl- μ_4 -stannanetetrayltetrairon, Fe-00803

C₁₂HFeNO₁₂Ru₃

Nonacarbonyl- μ -hydro- μ_4 -nitrido(tricarbonyliron)-triruthenium, Fe-00804

C₁₂HFe₄NO₁₂

Dodecacarbonyl- μ -hydro- μ_4 -nitridotetrairon, Fe-00805

C₁₂H₃BFe₄O₁₂

[(μ_4 -(Boryl-*B*:*B*:*H*:*H*'))dodecacarbonyl- μ -hydrotetrairon, Fe-00806

C₁₂H₄FeO₆

Tetracarbonyl(1,2-phenylenedicarbonyl)iron, Fe-00807

C₁₂H₄FeO₁₂Ru₃

Dodecacarbonyltetrahydro(iron)triruthenium, Fe-00808

C₁₂H₄Fe₃O₁₁

Decacarbonyl- μ -hydro[μ -(methoxymethylidyne)]triiron, Fe-00809

C₁₂H₅FeMnO₇

Pentacarbonyl[dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-iron]manganese, Fe-00810

C₁₂H₅Fe₂NO₆S

[μ -[2-Aminobenzenethiolato(2-)-*N,S:N,S*]]-hexacarbonyldiiron, Fe-00811

Hexacarbonyl[μ -[(thionitroso)benzene]]diiron, Fe-00812

C₁₂H₅Fe₃NO₁₀

μ_3 -Carbonylnonacarbonyl[μ_3 -[ethanaminato(2-))]triiron, Fe-00813

C₁₂H₆F₆FeO₃

[(2,3,5,6- η)-2,3-Bis(trifluoromethyl)bicyclo[2.2.1]-hepta-2,5-diene]tricarbonyliron, Fe-00814

C₁₂H₆FeO₄

[(1,7,8,9- η)-Bicyclo[5.2.0]nona-2,5,7,9-tetraen-4-one]-tricarbonyliron, Fe-00815

[(1,7,8,9- η)-Bicyclo[5.2.0]nona-3,5,7,9-tetraen-2-one]-tricarbonyliron, Fe-00816

C₁₂H₆Fe₂N₂O₆

Hexacarbonyl[μ -[*o*-phenylenediaminato(2-))]diiron, Fe-00817

C₁₂H₆Fe₂O₆

Hexacarbonyl[μ -(η^5 -2,4-cyclopentadien-1-ylidenemethylene)]diiron, Fe-00818

Hexacarbonyl[μ -[(1,2,5- η :1,4,5- η)-3-methylene-1,4-pentadiene-1,5-diyl]]diiron, Fe-00819

C₁₂H₇F₆FeO₃P

Tricarbonyl[(1,2,3,3*a*,7*a*- η)-1*H*-inden-1-yl]iron(1+); Hexafluorophosphate, *in* Fe-00821

C₁₂H₇FeMnO₆

μ -Carbonylpentacarbonyl(η^5 -2,4-cyclopentadienyl)iron- μ -methylenemanganese, Fe-00820

C₁₂H₇FeO₃[⊕]

Tricarbonyl[(1,2,3,3*a*,7*a*- η)-1*H*-inden-1-yl]iron(1+), Fe-00821

C₁₂H₇FeO₅Rh

Tricarbonyl[μ -[(1,2,3- η :4,5,6,7- η)-2,4,6-cycloheptatrien-1-yl]](dicarbonylrhodium)iron, Fe-00822

C₁₂H₈Cl₂FeO₂

1,1'-Bis(chlorocarbonyl)ferrocene, *in* Fe-00860

C₁₂H₈FeN₂

1,1'-Dicyanoferrocene, Fe-00823

1,2-Dicyanoferrocene, Fe-00824

C₁₂H₈FeN₂O₂

1,1'-Diisocyanatoferrocene, Fe-00825

C₁₂H₈FeN₂S₂

1,1'-Dithiocyanatoferrocene, Fe-00826

C₁₂H₈FeN₄O₂

Dinitrosyl(1,10-phenanthroline-*N*¹,*N*¹⁰)iron, Fe-00827

C₁₂H₈FeO₃

[(1,7,8,9- η)-Bicyclo[5.2.0]nona-2,4,7,9-tetraene]-tricarbonyliron, Fe-00828

[(1,7,8,9- η)-Bicyclo[5.2.0]nona-2,5,7,9-tetraene]-tricarbonyliron, Fe-00829

Tricarbonyl[(5,6,7,7*a*- η)-4*H*-indene]iron, Fe-00830

C₁₂H₈FeO₄

Tetracarbonyl(phenylethylene)iron, Fe-00831

Tricarbonyl(1,3,5,7-Cyclooctatetraene-1-carboxaldehyde)-iron, Fe-00832

Tricarbonyl[(4,5,6,7- η)-3*a*,7*a*-dihydro-1*H*-inden-1-one]-iron, Fe-00833

Tricarbonyl[(*O*,1,2,3- η)-3-phenyl-2-propenal]iron, Fe-00834

Tricarbonyl[(2,3- η)-1-phenyl-2-propen-1-one]iron, Fe-00835

- $C_{12}H_8FeO_6$**
Tetracarbonyl[(3,4-dimethyl-3-cyclobutene-1,2-diyl)-dicarbonyl]iron, Fe-00836
- $C_{12}H_8Fe_2O_8$**
Hexacarbonyl[μ -[(1,2,3,4- η :1,4- η)-1,4-dihydroxy-1,3-butadiene-1,4-diyl]]diiron; Di-Me ether, *in* Fe-00483
- $C_{12}H_9BF_4FeO_3$**
[(2,3,4,6,7- η)-Bicyclo[3.2.2]nona-3,6,8-trien-2-yl]-tricarbonyliron(1+); Tetrafluoroborate, *in* Fe-00842
- $C_{12}H_9BrFeO_3$**
Bromotricarbonyl[(1,2,3- η)-1-phenyl-2-propenyl]iron, Fe-00838
Bromotricarbonyl[(1,2,3- η)-2-phenyl-2-propenyl]iron, Fe-00837
- $C_{12}H_9ClFe$**
1-Chloro-1'-ethynylferrocene, Fe-00839
- $C_{12}H_9ClFeO_3$**
Tricarbonylchloro[(1,2,3- η)-1-phenyl-2-propenyl]iron, Fe-00841
Tricarbonylchloro[(1,2,3- η)-2-phenyl-2-propenyl]iron, Fe-00840
- $C_{12}H_9FeO_3^{\oplus}$**
[(2,3,4,6,7- η)-Bicyclo[3.2.2]nona-3,6,8-trien-2-yl]-tricarbonyliron(1+), Fe-00842
- $C_{12}H_{10}AsFeN_2O_2$**
(Diphenylarsino)dinitrosyliron, *in* Fe-01820
- $C_{12}H_{10}BF_4FeNO_2$**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(pyridine)-iron(1+); Tetrafluoroborate, *in* Fe-00846
- $C_{12}H_{10}F_6FeNO_2P$**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(pyridine)-iron(1+); Hexafluorophosphate, *in* Fe-00846
- $C_{12}H_{10}F_6FeNP$**
[(1,2,3,4,5,6- η)-Benzonitrile](η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-00845
- $C_{12}H_{10}F_6FeO_2P$**
(η^6 -Benzene){(1,2,3,4,5- η)-2,4-cyclopentadien-1-yl carboxylic acid}iron(1+); Hexafluorophosphate, *in* Fe-00847
- $C_{12}H_{10}Fe$**
Ethynylferrocene, Fe-00843
- $C_{12}H_{10}FeN^{\oplus}$**
(η^6 -Benzene){(1,2,3,4,5- η)-1-cyano-2,4-cyclopentadien-1-yl}iron(1+), Fe-00844
[(1,2,3,4,5,6- η)-Benzonitrile](η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00845
- $C_{12}H_{10}FeNO_2^{\oplus}$**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(pyridine)-iron(1+), Fe-00846
- $C_{12}H_{10}FeO_2^{\oplus}$**
(η^6 -Benzene){(1,2,3,4,5- η)-2,4-cyclopentadien-1-yl carboxylic acid}iron(1+), Fe-00847
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-2,4-cyclopentadien-1-yliron, Fe-00848
Dicarbonyl[(1,2,3,3a,7a- η)-1*H*-inden-1-yl]methyliron, Fe-00849
1,1'-Ferrocenedicarboxaldehyde, Fe-00850
1,2-Ferrocenedicarboxaldehyde, Fe-00851
- $C_{12}H_{10}FeO_2S$**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(3-thiophenylmethyl)iron, Fe-00852
- $C_{12}H_{10}FeO_3$**
[(2,3,6,7- η)-Bicyclo[6.1.0]nona-2,4,6-triene]-tricarbonyliron, Fe-00853
2-Ferrocenyl-2-oxoacetic acid, Fe-00854
2-Formyl-1-ferrocenecarboxylic acid, Fe-00855
Tricarbonyl[(1,2,3,4- η)-1,3,5,7-cyclononatetraene]iron, Fe-00856
Tricarbonyl[(3,4,5,6- η)-1,3,5,7-cyclononatetraene]iron, Fe-00857
Tricarbonyl[(4,5,6,7- η)-3a,7a-dihydro-1*H*-indene]iron, Fe-00858
Tricarbonyl[(1,2,3,8- η)-1-methyl-1,3,5,7-cyclooctatetraene]iron, Fe-00859
- $C_{12}H_{10}FeO_4$**
1,1'-Ferrocenedicarboxylic acid, Fe-00860
1,2-Ferrocenedicarboxylic acid, Fe-00861
Tricarbonyl(1-acetyl-1,3,5-cycloheptatriene)iron, Fe-00862
Tricarbonyl(2-acetyl-1,3,5-cycloheptatriene)iron, Fe-00863
Tricarbonyl(1,3,5,7-cyclooctatetraene-1-methanol)iron, Fe-00864
Tricarbonyl[(1,2,3,8- η)-1-methoxy-1,3,5,7-cyclooctatetraene]iron, Fe-00865
Tricarbonyl[(3,4,5,6- η)-8-methylbicyclo[5.1.0]octa-3,5-dien-2-one]iron, Fe-00866
Tricarbonyl[(4,5,6,7- η)-2,3,3a,7a-tetrahydro-1*H*-inden-1-one]iron, Fe-00867
- $C_{12}H_{10}FeO_5$**
Tricarbonyl(1,3,5-cycloheptatriene-1-carboxylic acid)iron; Me ester, *in* Fe-00684
Tricarbonyl[(2,3,5,6- η)-methyl bicyclo[2.2.1]hepta-2,5-diene-2-carboxylate]iron, Fe-00868
- $C_{12}H_{10}Fe_2N_2O_4$**
Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)di- μ -nitrosyldiiron, *in* Fe-00121
- $C_{12}H_{10}Fe_2N_4O_4S_2$**
Bis(μ -benzenethiolato)tetranitrosyldiiron, Fe-00869
- $C_{12}H_{10}Fe_2N_4O_4Se_2$**
Bis(μ -benzeneselenolato)tetranitrosyldiiron, Fe-00870
- $C_{12}H_{10}Fe_2N_4O_4Te_2$**
Bis(μ -benzenetelluroolato)tetranitrosyldiiron, Fe-00871
- $C_{12}H_{10}Fe_2O_6$**
Hexacarbonylbis(η^3 -2-propenyl)diiron, Fe-00872
- $C_{12}H_{11}BrFeO$**
1-Acetyl-1'-bromoferrocene, Fe-00873
- $C_{12}H_{11}ClFe$**
(1-Chloroethenyl)ferrocene, Fe-00874
(2-Chloroethenyl)ferrocene, Fe-00875
- $C_{12}H_{11}ClFeO$**
1-Acetyl-1'-chloroferrocene, Fe-00876
(Chloroacetyl)ferrocene, Fe-00877
- $C_{12}H_{11}Cl_3FeO$**
(2,2,2-Trichloro-1-hydroxyethyl)ferrocene, Fe-00878
- $C_{12}H_{11}F_6FeO_2P$**
[(1,2,3,4,5,6- η)-Benzoato](η^5 -2,4-cyclopentadien-1-yl)-iron(1+) compd. with HPF_6 (1:1), *in* Fe-00883
- $C_{12}H_{11}F_6FeO_4P$**
[(1,2,3,4,5- η)-2-Acetyl-2,4-cycloheptadien-1-yl]-tricarbonyliron(1+); Hexafluorophosphate, *in* Fe-00884
[(1,2,3,4,5- η)-6-Acetyl-2,4-cycloheptadien-1-yl]-tricarbonyliron(1+); Hexafluorophosphate, *in* Fe-00885
- $C_{12}H_{11}FeIO$**
1-Acetyl-1'-iodoferrocene, Fe-00879
1-Acetyl-2-iodoferrocene, Fe-00880
- $C_{12}H_{11}FeN$**
(Cyanomethyl)ferrocene, *in* Fe-00899
1-Cyano-2-methylferrocene, *in* Fe-00902
- $C_{12}H_{11}FeNO_2$**
(2-Nitroethenyl)ferrocene, Fe-00881
- $C_{12}H_{11}FeNO_3$**
Tricarbonyl[(1,4,5,6- η)-8-cyano-5-cyclooctene-1,4-diyl]-iron, Fe-00882
- $C_{12}H_{11}FeNO_5$**
Tricarbonyl[(2,3,4,5- η)ethyl-1*H*-azepine-1-carboxylate]-iron, *in* Fe-00503
- $C_{12}H_{11}FeO_2^{\oplus}$**
[(1,2,3,4,5,6- η)-Benzoic acid](η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00883
- $C_{12}H_{11}FeO_4^{\oplus}$**
[(1,2,3,4,5- η)-2-Acetyl-2,4-cycloheptadien-1-yl]-tricarbonyliron(1+), Fe-00884

- [(1,2,3,4,5- η)-6-Acetyl-2,4-cycloheptadien-1-yl]-tricarboxyliron(1+), Fe-00885
- C₁₂H₁₁Fe₃NO₉Si**
Nonacarbonyldi- μ -hydro[μ_3 -(1,1,1-trimethylsilanaminato(2-))]triiron, Fe-00886
- C₁₂H₁₂Br₂Fe**
(1,2-Dibromoethyl)ferrocene, Fe-00887
- C₁₂H₁₂Cl₂Fe**
1,1'-Bis(chloromethyl)ferrocene, Fe-00888
- C₁₂H₁₂F₆FeNOP**
[(1,2,3,4,5,6- η)-Benzamide](η^5 -2,4-cyclopentadien-1-yl)-iron(1+) hexafluorophosphate, *in* Fe-00883
- C₁₂H₁₂F₁₂FeP₂**
Bis(η^6 -benzene)iron(2+); Bis(hexafluorophosphate), *in* Fe-00889
- C₁₂H₁₂Fe^{⊕⊕}**
Bis(η^6 -benzene)iron(2+), Fe-00889
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-6-methylene-2,4-cyclohexadien-1-yl]iron, Fe-00890
1,1'-(1,2-Ethanediy)ferrocene, Fe-00891
Vinylferrocene, Fe-00892
- C₁₂H₁₂FeN₂O₂**
1,1'-Bis(aminocarbonyl)ferrocene, *in* Fe-00860
- C₁₂H₁₂FeN₂O₅**
Tricarbonyl[(4,5,6,7- η)-1*H*-1,2-diazepine-1-carboxylic acid]iron; Isopropyl ester, *in* Fe-00351
- C₁₂H₁₂FeO**
▷ Acetylferrocene, Fe-00893
Ferrocenylacetaldehyde, Fe-00894
1-Formyl-2-methylferrocene, Fe-00895
1-Formyl-3-methylferrocene, Fe-00896
Oxiranylferrocene, Fe-00897
1,1'-[Oxybis(methylene)]ferrocene, Fe-00898
- C₁₂H₁₂FeOS**
[(Methylthio)carbonyl]ferrocene, *in* Fe-00710
- C₁₂H₁₂FeO₂**
Acetoxyferrocene, *in* Fe-00567
Ferroceneacetic acid, Fe-00899
Ferrocenecarboxylic acid; Me ester, *in* Fe-00711
2-Hydroxymethylferrocenecarboxaldehyde, Fe-00900
1'-Methylferrocenecarboxylic acid, Fe-00901
2-Methylferrocenecarboxylic acid, Fe-00902
3-Methylferrocenecarboxylic acid, Fe-00903
- C₁₂H₁₂FeO₂S**
[(Carboxymethyl)thio]ferrocene, Fe-00904
- C₁₂H₁₂FeO₃**
1-Hydroxy-2-(methoxycarbonyl)ferrocene, *in* Fe-00715
Tricarbonyl[(1,2,3,4- η)-1,3,5-cyclononatriene]iron, Fe-00905
Tricarbonyl[(1,2,3,4- η)-spiro[4.4]nona-1,3-diene]iron, Fe-00906
Tricarbonyl[(3*a*,4,7,7*a*- η)-2,3,5,6-tetrahydro-1*H*-indene]-iron, Fe-00907
Tricarbonyl[(3*a*,6,7,7*a*- η)-2,3,4,5-tetrahydro-1*H*-indene]-iron, Fe-00908
Tricarbonyl[(4,5,6,7- η)-2,3,3*a*,7*a*-tetrahydro-1*H*-indene]-iron, Fe-00909
- C₁₂H₁₂FeO₄**
[2-[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-dien-7-yl]-ethanol]tricarbonyliron, Fe-00910
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(3-ethoxy-3-oxo-1-propenyl)iron, *in* Fe-00531
- C₁₂H₁₂FeO₈**
[(2,3- η)-2-Butene-1,4-dioic acid]tetracarboxyliron; Di-Et ester, *in* Fe-00254
- C₁₂H₁₂FeS**
(1-Thioxoethyl)ferrocene, Fe-00911
- C₁₂H₁₂Fe₂Ge₂O₈**
Octacarbonylbis[μ -(dimethylgermylene)]diiron, Fe-00912
- C₁₂H₁₂Fe₂N₂O₆**
Hexacarbonylbis[μ -(2-propaniminato)]diiron, Fe-00913
- C₁₂H₁₂Fe₂N₂O₇**
Hexacarbonyl[μ -(2-propaniminato)][μ -(2-propanoneoximato-*N:O*)]diiron, Fe-00914
- C₁₂H₁₂Fe₂O₈Pb₂**
Octacarbonylbis[μ -(dimethylplumbylene)]diiron, Fe-00915
- C₁₂H₁₂Fe₂O₈Si₂**
Octacarbonylbis[μ -(dimethylsilylene)]diiron, Fe-00916
- C₁₂H₁₂Fe₂O₈Sn₂**
Octacarbonylbis[μ -(dimethylstannylene)]diiron, Fe-00917
- C₁₂H₁₃BF₄Fe**
[(1,2,3,4,5,6- η)-1,3,5-Cycloheptatriene](η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-00924
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-methylbenzene]iron(1+); Tetrafluoroborate, *in* Fe-00925
- C₁₂H₁₃BrFe**
(1-Bromoethyl)ferrocene, Fe-00918
- C₁₂H₁₃ClFe**
(1-Chloroethyl)ferrocene, Fe-00919
(2-Chloroethyl)ferrocene, Fe-00920
- C₁₂H₁₃ClFeO**
(2-Chloro-1-hydroxyethyl)ferrocene, Fe-00921
- C₁₂H₁₃F₆FeOP**
(η^6 -Benzene)[(1,2,3,4,5- η)-1-methoxy-2,4-cyclopentadien-1-yl]iron(1+); Hexafluorophosphate, *in* Fe-00930
- C₁₂H₁₃F₆FeP**
(η^6 -Benzene)[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]-iron(1+); Hexafluorophosphate, *in* Fe-00922
(η^6 -Benzene)[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]iron(1+); Hexafluorophosphate, *in* Fe-00923
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-methylbenzene]iron(1+); Hexafluorophosphate, *in* Fe-00925
- C₁₂H₁₃Fe[⊕]**
(η^6 -Benzene)[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]-iron(1+), Fe-00922
(η^6 -Benzene)[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-00923
[(1,2,3,4,5,6- η)-1,3,5-Cycloheptatriene](η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00924
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-methylbenzene]iron(1+), Fe-00925
- C₁₂H₁₃FeI**
(2-Iodoethyl)ferrocene, Fe-00926
- C₁₂H₁₃FeIO**
(η^5 -2,4-Cyclopentadien-1-yl)(η^6 -phenol)iron(1+); Me ether, iodide, *in* Fe-00741
- C₁₂H₁₃FeNO**
Acetamidoferrocene, *in* Fe-00598
- C₁₂H₁₃FeNO₂**
1-Ethyl-1'-nitroferrocene, Fe-00927
(2-Nitroethyl)ferrocene, Fe-00928
- C₁₂H₁₃FeNO₃**
1-(Methoxymethyl)-1'-nitroferrocene, Fe-00929
- C₁₂H₁₃FeO[⊕]**
(η^6 -Benzene)[(1,2,3,4,5- η)-1-methoxy-2,4-cyclopentadien-1-yl]iron(1+), Fe-00930
(η^5 -2,4-Cyclopentadien-1-yl)(η^6 -methoxybenzene)iron(1+), *in* Fe-00741
- C₁₂H₁₃FeOP**
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphole-2-carboxaldehydato]iron, Fe-00931
- C₁₂H₁₄B₂Fe₂N₂O₄**
Di- μ -carbonyldicarbonylbis[(3,4,5- η)-2,3-dihydro-2-methyl-1*H*-1,2-azaborol-3-yl-*B*²,*N*¹]diiron, Fe-00932

- C₁₂H₁₄Fe**
 (η^6 -Benzene)[(1,2,3,4- η)-1,3-cyclohexadiene]iron, Fe-00933
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-6-methyl-2,4-cyclohexadien-1-yl]iron, Fe-00934
 1,1'-Dimethylferrocene, Fe-00935
 1,2-Dimethylferrocene, Fe-00936
 1,3-Dimethylferrocene, Fe-00937
 Ethylferrocene, Fe-00938
- C₁₂H₁₄FeN₄**
 1,1'-Bis(methylazo)ferrocene, Fe-00939
- C₁₂H₁₄FeO**
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-5-(hydroxymethyl)-2,4-cyclohexadien-1-yl]iron, Fe-00940
 ▶ 1-Ferrocenylethanol, Fe-00941
 (2-Hydroxyethyl)ferrocene, Fe-00942
 1-(Hydroxymethyl)-2-methylferrocene, Fe-00943
 (Methoxymethyl)ferrocene, Fe-00944
- C₁₂H₁₄FeO₂**
 1,1'-Bis(hydroxymethyl)ferrocene, Fe-00945
 1,2-Bis(hydroxymethyl)ferrocene, Fe-00946
 1,1'-Dihydroxy-3,3'-dimethylferrocene, Fe-00947
 1,1'-Dimethoxyferrocene, *in* Fe-00569
- C₁₂H₁₄FeO₆S₂**
 1,1'-Ferrocenedisulfonic acid; Di-Me ester, *in* Fe-00589
- C₁₂H₁₄FeS₂**
 1,1'-Bis(methylthio)ferrocene, Fe-00948
- C₁₂H₁₄FeSi**
 1,1'-(Dimethylsilylene)ferrocene, Fe-00949
- C₁₂H₁₄Fe₂N₂O₇**
 Hexacarbonyl[μ -(2-propanaminato)][μ -(2-propanoneoximato-*N:O*)]diiron, Fe-00950
- C₁₂H₁₄Fe₂O₆S₂**
 [μ -[1,2-Benzenedithiolato(2-)-*S,S':S,S'*]]-hexacarbonyldiiron, Fe-00951
- C₁₂H₁₅BF₄FeO₃Si**
 Tricarbonyl[(1,2,3,4,5- η)-1-trimethylsilyl-2,4-cyclohexadien-1-yl]iron(1+); Tetrafluoroborate, *in* Fe-00960
 Tricarbonyl[(1,2,3,4,5- η)-3-trimethylsilyl-2,4-cyclohexadien-1-yl]iron(1+); Tetrafluoroborate, *in* Fe-00962
- C₁₂H₁₅BFe**
 Dimethylborylferrocene, Fe-00952
- C₁₂H₁₅BrFeO₂**
 Bromodicarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, Fe-00953
- C₁₂H₁₅FeKO₂**
 Dicarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]ferrate(1-); K salt, *in* Fe-00959
- C₁₂H₁₅FeN**
 (1-Aminoethyl)ferrocene, Fe-00954
 (2-Aminoethyl)ferrocene, Fe-00955
 1-(Aminomethyl)-2-methylferrocene, Fe-00956
- C₁₂H₁₅FeNO₃**
 Tricarbonyl(2,2,3,4,5-pentamethyl-2*H*-pyrrole)iron, Fe-00957
- C₁₂H₁₅FeOP**
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphole-2-methanolato]iron, Fe-00958
- C₁₂H₁₅FeO₂[⊖]**
 Dicarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]ferrate(1-), Fe-00959
- C₁₂H₁₅FeO₃Si[⊕]**
 Tricarbonyl[(1,2,3,4,5- η)-1-trimethylsilyl-2,4-cyclohexadien-1-yl]iron(1+), Fe-00960
 Tricarbonyl[(1,2,3,4,5- η)-2-trimethylsilyl-2,4-cyclohexadien-1-yl]iron(1+), Fe-00961
 Tricarbonyl[(1,2,3,4,5- η)-3-trimethylsilyl-2,4-cyclohexadien-1-yl]iron(1+), Fe-00962
- C₁₂H₁₅FeP**
 (Dimethylphosphino)ferrocene, Fe-00963
- C₁₂H₁₆As₂Fe**
 Bis[(1,2,3,4,5- η)-2,5-dimethyl-1*H*-arsol-1-yl]iron, Fe-00964
- C₁₂H₁₆B₂Fe**
 Bis[(1,2,3,4,5,6- η)-1-methylboratabenzene]iron, Fe-00965
- C₁₂H₁₆FeN₂**
 1,1'-Bis(aminomethyl)ferrocene, Fe-00966
- C₁₂H₁₆FeO₃Si**
 Tricarbonyl[(1,2,3,4- η)-2-trimethylsilyl-1,3-cyclohexadiene]iron, Fe-00967
- C₁₂H₁₆FeP₂**
 Bis[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-1-yl]iron, Fe-00968
- C₁₂H₁₆FeSb₂**
 Bis[(1,2,3,4,5- η)-2,5-dimethyl-1*H*-stibol-1-yl]iron, Fe-00969
- C₁₂H₁₈Cl₂N₆Fe**
 Hexakis(isocyanomethane)iron(2+); Dichloride, *in* Fe-00972
- C₁₂H₁₈Fe**
 Bis[(1,2,3,4,5- η)-3-methyl-2,4-pentadienyl]iron, Fe-00970
- C₁₂H₁₈Fe₂Ge₃O₆**
 Hexacarbonyltris[μ -(dimethylgermylene)]diiron, Fe-00971
- C₁₂H₁₈N₆Fe^{⊕⊕}**
 Hexakis(isocyanomethane)iron(2+), Fe-00972
- C₁₂H₂₀B₄Fe**
 (η^6 -Benzene)[(2,3,4,5,6- η)-2,2-diethyl-1,4,5,6-tetrahydro-2,3-dicarbahehexaborato(2-)]iron, Fe-00973
 [(1,2,3,4,5,6- η)-1,3,5-Cyclooctatriene][(2,3,4,5,6- η)-2,3-dimethyl-1,4,5,6-tetrahydro-2,3-dicarbahehexaborato(2-)]iron, Fe-00974
- C₁₂H₂₀B₁₀Fe**
 (1,2-Dicarbododecaboran(12)-1-yl)ferrocene, Fe-00975
 (1,2-Dicarbododecaboran(12)-3-yl)ferrocene, Fe-00976
- C₁₂H₂₃BF₄FeOP₂**
 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-bis(trimethylphosphine)iron(1+); Tetrafluoroborate, *in* Fe-00978
- C₁₂H₂₃F₆FeOP₃**
 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-bis(trimethylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-00978
- C₁₂H₂₃FeNP₂**
 (Cyano-*C*)(η^5 -2,4-cyclopentadien-1-yl)-bis(trimethylphosphine)iron, Fe-00977
- C₁₂H₂₃FeOP₂[⊕]**
 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-bis(trimethylphosphine)iron(1+), Fe-00978
- C₁₂H₂₄FeO₆P₂**
 (η^6 -Benzene)bis(trimethyl phosphite-*P*)iron, Fe-00979
- C₁₂H₂₆FeO₆P₂**
 [(1,2,3,4,5- η)-2,4-Cyclohexadien-1-yl]-hydrobis(trimethyl phosphite-*P*)iron, Fe-00980
- C₁₂H₂₆FeP₂**
 (η^5 -2,4-Cyclopentadien-1-yl)-methylbis(trimethylphosphine)iron, Fe-00981
- C₁₂H₃₀FeO₂P₃[⊕]**
 Dicarbonylmethyltris(trimethylphosphine)iron(1+), Fe-00982
- C₁₂H₃₆FeP₄**
 Tetrakis(trimethylphosphine)iron, Fe-00983
- C₁₂H₃₈FeO₁₂P₄**
 Dihydrotetrakis(trimethyl phosphite-*P*)iron, Fe-00984
- C₁₂H₃₈FeP₄**
 Dihydrotetrakis(trimethylphosphine)iron, Fe-00985
- C₁₂H₄₂B₁₈FeN**
 Bis[(7,8,9,10,11- η)-1,2,3,4,5,6,9,10,11-nonahydro-7,8-dimethyl-7,8-dicarbaundecaborato(2-)]ferrate(1-); Tetramethylammonium salt, *in* Fe-00328

C₁₂H₄₆B₁₈FeN₂

Bis[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]ferrate(2-); Bis(tetramethylammonium) salt, *in* Fe-00061

C₁₃Br₂Fe₅O₁₂²⁻

(μ_3 -Dibromoferrio)(μ_5 -carbon)-dodecacarbonyltetrafferrate(2-), Fe-00986

C₁₃Fe₄O₁₂²⁻

(Carbon)dodecacarbonyltetrafferrate(2-), Fe-00987

C₁₃Fe₄O₁₂S₂

Dodecacarbonyl[μ_4 -[methanethiolato(4-)-C:C:C:S]]- μ_3 -thioxotetrairon, Fe-00988

C₁₃Fe₄O₁₃²⁻

Tri- μ -carbonyldecacarbonyltetrafferrate(2-), Fe-00989

C₁₃HFeO₁₃Ru₃⁺

Di- μ -carbonylnonacarbonyl(dicarbonylferrate)- μ -hydrotriruthenate(1-), Fe-00990

C₁₃HFe₂O₁₃Ru₂⁺

Hexacarbonyl(μ -carbonylhexacarbonyldiferrate)- μ -hydrodiruthenate(1-), Fe-00991

C₁₃HFe₄O₁₂⁺

Dodecacarbonyl- μ -hydro- μ_4 -methanetetrayltetrafferrate(1-), Fe-00992

C₁₃HFe₄O₁₃⁺

μ_3 -Carbonyldodecacarbonylhydrotetrafferrate(1-), Fe-00993

C₁₃H₂FeO₁₃OsRu₂

Di- μ -carbonyltricarbonyl(dicarbonyliron)(hexacarbonyl- μ -hydrodiruthenium)- μ -hydroosmium, Fe-00994

C₁₃H₂FeO₁₃Os₂Ru

Di- μ -carbonylhexacarbonyl(dicarbonyliron)di- μ -hydro(tricarbonylruthenium)diosmium, Fe-00995

C₁₃H₂FeO₁₃Os₃

Di- μ -carbonylnonacarbonyl(dicarbonyliron)di- μ -hydrotriosmium, Fe-00996

C₁₃H₂FeO₁₃Ru₃

Di- μ -carbonyldicarbonyldi- μ -hydrotris[μ_3 -(tricarbonylruthenio)]iron, Fe-00997

C₁₃H₂Fe₂O₁₃Ru₂

μ -Carbonylhexacarbonyl(μ -carbonylpentacarbonyldiiron)-di- μ -hydrodiruthenium, Fe-00999

C₁₃H₂Fe₄O₁₂

Dodecacarbonyl- μ -hydro[μ_4 -(methylidyne-C:C:C:C,H)]-tetrairon, Fe-01000

C₁₃H₂Fe₄O₁₃

Dodecacarbonyl- μ -hydro[μ_4 -(hydroxymethylidyne-C:C:C:C,O)]tetrairon, Fe-01001

C₁₃H₅F₅FeO₂

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(pentafluorophenyl)iron, Fe-01002

C₁₃H₅F₅FeO₂S

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(pentafluorobenzenethiolato)iron, Fe-01003

C₁₃H₇FeMnO₆

Tricarbonyl[μ -[(1,2,3- η :4,5,6,7- η)-2,4,6-cycloheptatrien-1-yl]](tricarbonyliron)manganese, Fe-01004

C₁₃H₇Fe₃NO₁₀

Decacarbonyl[μ -[(dimethylamino)methylidyne]]- μ -hydrotriiron, Fe-01005

C₁₃H₈FeO₃

Tricarbonyl(phenylcyclobutadiene)iron, Fe-01006

C₁₃H₈FeO₄

(Benzoxepin)tricarbonyliron, Fe-01007

C₁₃H₈FeO₅

Tetracarbonyl[(2,3- η)-3-phenyl-2-propenal]iron, Fe-01008

C₁₃H₈FeO₆

Tetracarbonyl[(2,3- η)-3-phenyl-2-propenoic acid]iron, Fe-01009

C₁₃H₈Fe₂O₅

μ -Carbonyltetracarbonyl[μ -[(1,2,3,4- η :5,6,7,8- η)-1,3,5,7-cyclooctatetraene]]diiron, Fe-01010

C₁₃H₈Fe₂O₆

Hexacarbonyl[μ -[(1,2,3- η :4,5,6- η)-1,3,5-cycloheptatriene]]diiron, Fe-01011

C₁₃H₉FeN

(Cyanoethynyl)ferrocene, Fe-01012

C₁₃H₁₀FeHgO₂

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(phenylmercury)-iron, Fe-01013

C₁₃H₁₀FeINO

Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-iodo(isocyanobenzene)iron, Fe-01014

C₁₃H₁₀FeO

1-Ferrocenyl-2-propyn-1-one, Fe-01015

C₁₃H₁₀FeOS₃

Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(phenyltrithiocarbonato-S,S')iron, Fe-01016

C₁₃H₁₀FeO₂

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)phenyliron, Fe-01017
3-Ferrocenyl-2-propynoic acid, Fe-01018

C₁₃H₁₀FeO₂S

(Benzenethiolato)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-iron, Fe-01019

C₁₃H₁₀FeO₂Se

(Benzeneselenolato)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01020

C₁₃H₁₀FeO₂Te

(Benzenetellurolato)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01021

C₁₃H₁₀FeO₃

[(η^4 -1,3-Butadienyl)benzene]tricarbonyliron, Fe-01022
Tricarbonyl[η^4 -2-methylene-1-phenyl-1,3-propanediyl]-iron, Fe-01023

C₁₃H₁₀FeO₄

Tricarbonyl(acetylcyclooctatetraene)iron, Fe-01024
Tricarbonyl[(O,2,3,4- η)-4-phenyl-3-buten-2-one]iron, Fe-01025
Tricarbonyl[(O,1,2,3- η)-1-phenyl-2-buten-1-one]iron, Fe-01026
Tricarbonyl[2,3,5,6-tetrakis(methylene)-7-oxabicyclo[2.2.1]heptaneiron, Fe-01027

C₁₃H₁₀FeO₄S

(Benzenesulfonyl)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-iron, Fe-01028
Tricarbonyl[1-(phenylsulfinyl)-1,3-butadiene]iron, Fe-01029

C₁₃H₁₀FeO₅

Tetracarbonyl(ethoxyphenylmethylene)iron, Fe-01030
Tricarbonyl[methyl(3,4,5,6- η)-1,3,5,7-cyclooctatetraene-1-carboxylate]iron, Fe-01031

C₁₃H₁₀FeO₆

Tetracarbonyl[(1-cycloheptene-1,2-diyl)dicarbonyl]iron, Fe-01032

C₁₃H₁₀FeO₇

Tricarbonyl[(2,3,4,5- η)-2,4,6,8-decatetraenedioic acid]iron, Fe-01033
Tricarbonyl[(4,5,6,7- η)-2,4,6,8-decatetraenedioic acid]iron, Fe-01034

C₁₃H₁₀Fe₃O₉S

Nonacarbonyl- μ -hydro[μ_3 -(2-methyl-2-propanethiolato)]-triiron, Fe-01035

C₁₃H₁₁F₆FeO₄P

[(2,3,4,6,7- η)-8-Acetylbicyclo[3.2.1]octa-3,6-dien-2-yl]tricarbonyliron(1+); Hexafluorophosphate, *in* Fe-01042

C₁₃H₁₁FeN

(2-Cyanoethenyl)ferrocene, Fe-01036

C₁₃H₁₁FeNO

1-Acetyl-1'-cyanoferrocene, Fe-01037

(3-Cyanooxiranyl)ferrocene, Fe-01038

C₁₃H₁₁FeNO₃(η⁴-N-2-Butenylideneaniline)tricarbonyliron, Fe-01039Tricarbonyl[η⁴-N-(3-phenyl-2-propenylidene)methanamine]-iron, Fe-01040**C₁₃H₁₁FeNO₄**

Tetracarbonyl[(dimethylamino)phenylmethylene]iron, Fe-01041

C₁₃H₁₁FeO₄[⊕]

[(2,3,4,6,7-η)-8-Acetylbicyclo[3.2.1]octa-3,6-dien-2-yl]tricarbonyliron(1+), Fe-01042

C₁₃H₁₂CrFeP₂O₉

Tetracarbonyl[μ-(tetramethyldiphosphine)]-(pentacarbonylchromium)iron, Fe-01043

C₁₃H₁₂Fe

[3]Ferrocenophan-1-ene, Fe-01044

C₁₃H₁₂FeOCarbonyl[(1,2,3-η)-2,4,6-cycloheptatrien-1-yl](η⁵-2,4-cyclopentadien-1-yl)iron, Fe-01045Carbonyl[(1,2,3,3a,7a-η)-1H-inden-1-yl](η³-2-propenyl)-iron, Fe-01046(η⁵-2,4-Cyclopentadien-1-yl)[(3a,4,5,6,6a-η)-2,3-dihydro-1-oxo-3a(1H)-pentalenyl]iron, Fe-01047

[3]Ferrocenophan-1-one, Fe-01048

[3]Ferrocenophan-2-one, Fe-01049

1-Ferrocenyl-2-propyn-1-ol, Fe-01050

(1-Oxo-2-propenyl)ferrocene, Fe-01051

(3-Oxo-1-propenyl)ferrocene, Fe-01052

C₁₃H₁₂FeOS(η⁵-2,4-Cyclopentadien-1-yl)[(4a,5,6,7,7a-η)-1,3,4-trihydro-4-oxocyclopenta[c]thiopyran-4a-yl]iron, Fe-01053**C₁₃H₁₂FeO₂**

1-Ferrocenyl-1,2-propanedione, Fe-01054

3-Ferrocenyl-2-propenoic acid, Fe-01055

C₁₃H₁₂FeO₃

3-Ferrocenyl-3-oxopropanoic acid, Fe-01056

1-Fomyl-2-(methoxycarbonyl)ferrocene, *in* Fe-00855(Methoxycarbonylcarbonyl)ferrocene, *in* Fe-00854Tricarbonyl[(2,3,4,5-η)-tricyclo[4.3.1.0^{1,6}]deca-2,4-diene]iron, Fe-01057**C₁₃H₁₂FeO₅**

Tricarbonyl[(2,3,5,6-η)-2,3,5,6-tetramethyl-2,5-cyclohexadiene-1,4-dione]iron, Fe-01058

C₁₃H₁₃AsFeO₂Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(2,5-dimethyl-1H-arsol-1-yl)iron, Fe-01059**C₁₃H₁₃BF₄FeO₂**(η⁵-2,4-Cyclopentadien-1-yl)[1,2,3,4,5,6-η]-methyl benzoate]iron(1+) tetrafluoroborate, *in* Fe-00883**C₁₃H₁₃BF₄FeO₃**Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(tetrahydrofuran)-iron(1+); Tetrafluoroborate, *in* Fe-00770**C₁₃H₁₃BFeN₆O₃**Acetyldicarbonyl[hydrotris(1H-pyrazolato-N¹)borato(1-)-N²,N^{2'},N^{2''}]iron, Fe-01060**C₁₃H₁₃F₆FeOP**[(1,2,3,4,5-η)-1-Acetyl-2,4-cyclopentadien-1-yl](η⁶-benzene)iron(1+); Hexafluorophosphate, *in* Fe-01064**C₁₃H₁₃F₆FeP**[(1,2,3,4,5,6-η)-1,3,5,7-Cyclooctatetraene](η⁵-2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-01061**C₁₃H₁₃Fe[⊕]**[(1,2,3,4,5,6-η)-1,3,5,7-Cyclooctatetraene](η⁵-2,4-cyclopentadien-1-yl)iron(1+), Fe-01061**C₁₃H₁₃FeN**

(2-Cyanoethyl)ferrocene, Fe-01062

(η⁵-2,4-Cyclopentadien-1-yl)[(4a,5,6,7,7a-η)-3,4-dihydro-4aH-2-pyridin-4a-yl]iron, Fe-01063**C₁₃H₁₃FeO[⊕]**[(1,2,3,4,5-η)-1-Acetyl-2,4-cyclopentadien-1-yl](η⁶-benzene)iron(1+), Fe-01064**C₁₃H₁₄Fe**(η⁶-Benzene)[(1,2,3,4-η)-1,3,5-cycloheptatriene]iron, Fe-01065[(1,2,3,4,5-η)-2,4,6-Cyclooctatrien-1-yl](η⁵-2,4-cyclopentadien-1-yl)iron, Fe-01066

[3]Ferrocenophane, Fe-01067

(1-Methylethenyl)ferrocene, Fe-01068

C₁₃H₁₄FeO

1-Acetyl-1'-methylferrocene, Fe-01069

1-Acetyl-2-methylferrocene, Fe-01070

1-Acetyl-3-methylferrocene, Fe-01071

(η⁴-1,3-Butadiene)carbonyl[(1,2,3,4-η)-1,3,5,7-cyclooctatetraene]iron, Fe-01072

(Oxiranylmethyl)ferrocene, Fe-01073

(2-Oxopropyl)ferrocene, Fe-01074

C₁₃H₁₄FeO₂1-Carbomethoxy-2-methylferrocene, *in* Fe-00902(η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,4,5-η)-5-(methoxycarbonyl)-2,4-cyclohexadien-1-yl]iron, Fe-01075

1',2-Dimethylferrocenecarboxylic acid, Fe-01076

1',3-Dimethylferrocenecarboxylic acid, Fe-01077

Ferroceneacetic acid; Me ester, *in* Fe-00899

Ferrocenepropanoic acid, Fe-01078

1-Methoxycarbonyl-1'-methylferrocene, *in* Fe-009011-Methoxycarbonyl-3-methylferrocene, *in* Fe-00903**C₁₃H₁₄FeO₂S**

[(2-Carboxyethyl)thio]ferrocene, Fe-01079

[(Ferrocenylmethyl)thio]acetic acid, Fe-01080

C₁₃H₁₄FeO₃1-Methoxy-2-(methoxycarbonyl)ferrocene, *in* Fe-00715**C₁₃H₁₄FeO₆S**[2-[(2,3,5,6-η)-Bicyclo[2.2.1]hepta-2,5-dien-7-yl]-ethanol]tricarbonyliron; Methanesulfonyl, *in* Fe-00910**C₁₃H₁₄FeO₇**[η⁴-1,3-Dicarboxy-2-methylene-1,3-propanediyl]-tricarbonyliron; Di-Et ester, *in* Fe-00359Tricarbonyl[(2,3,4,5-η)-2,4-hexadienedioic acid]iron; Di-Et ester, *in* Fe-00361**C₁₃H₁₅AlCl₄FeO₅**(3-Acetyl-2,4-dimethyl-2-penten-4-yl)-tetracarbonyliron(1+); Tetrachloroaluminate, *in* Fe-01088**C₁₃H₁₅BF₄FeO**Carbonyl[(1,2,3,4-η)-1,3-cyclohexadiene][(1,2,3,4,5-η)-2,4-cyclohexadien-1-yl]iron(1+); Tetrafluoroborate, *in* Fe-01083**C₁₃H₁₅BF₄FeO₂**Dicarbonyl[(1,2-η)-cyclohexene](η⁵-2,4-cyclopentadien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-01085**C₁₃H₁₅F₆FeO₂P**Dicarbonyl[(1,2-η)-cyclohexene](η⁵-2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-01085**C₁₃H₁₅F₆FeO₃P**Tricarbonyl[(1,2,3,4,5-η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron(1+); Hexafluorophosphate, *in* Fe-01087**C₁₃H₁₅FeKO₂S₂**Dicarbonyl(dithiocarboxylato)[(1,2,3,4,5-η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]ferrate(1-); K salt, *in* Fe-01086**C₁₃H₁₅FeN**(η⁵-2,4-Cyclopentadien-1-yl)[(4a,5,6,7,7a-η)-1,2,3,4-tetrahydro-4aH-2-pyridin-4a-yl]iron, Fe-01081

C₁₃H₁₅FeNO1-Amino-2-methylferrocene; Ac, *in* Fe-00768**C₁₃H₁₅FeNO₂**2-Amino-3-ferrocenylpropanoic acid, Fe-01082
[(2,3,4,5- η)-1*H*-Azepine-1-carboxylic acid](η^4 -1,3-cyclobutadiene)iron; Et ester, *in* Fe-00737**C₁₃H₁₅FeNP₂**[(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphole-2-carbonitrilato][(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-1-yl]iron, *in* Fe-01103**C₁₃H₁₅FeO⁺**Carbonyl[(1,2,3,4- η)-1,3-cyclohexadiene][(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]iron(1+), Fe-01083**C₁₃H₁₅FeOP**[(1,2,3,4,5- η)-2-Acetyl-3,4-dimethyl-1*H*-phosphol-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01084**C₁₃H₁₅FeO₂⁺**Dicarbonyl[(1,2- η)-cyclohexene](η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-01085**C₁₃H₁₅FeO₂S₂⁺**Dicarbonyl(dithiocarboxylato)[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]ferrate(1-), Fe-01086**C₁₃H₁₅FeO₃⁺**Tricarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-01087**C₁₃H₁₅FeO₅⁺**

(3-Acetyl-2,4-dimethyl-2-penten-4-yl)-tetracarbonyliron(1+), Fe-01088

C₁₃H₁₆AgFeN[2-[(Dimethylamino)methyl]ferrocenyl-*C,N*]silver, Fe-01089**C₁₃H₁₆As₂FeO₃**Tricarbonyl[1,2-phenylenebis(dimethylarsine)-*As,As'*]-iron, Fe-01090**C₁₃H₁₆BrFeN**

1-Bromo-2-[(dimethylamino)methyl]ferrocene, Fe-01091

C₁₃H₁₆ClFeN

1-Chloro-2-[(dimethylamino)methyl]ferrocene, Fe-01092

C₁₃H₁₆CuFeN[2-[(Dimethylamino)methyl]ferrocenyl-*C,N*]copper, Fe-01093**C₁₃H₁₆F₆FeNP**(η^5 -2,4-Cyclopentadien-1-yl)(*N,N*-dimethylaniline)-iron(1+); Hexafluorophosphate, *in* Fe-01099**C₁₃H₁₆Fe**Isopropylferrocene, Fe-01094
Propylferrocene, Fe-01095**C₁₃H₁₆FeGeO₃**Tricarbonyl[(2,3,4,5- η)-2,4,6-cycloheptatrien-1-yl]-trimethylgermane]iron, Fe-01096**C₁₃H₁₆FeI₄P**Carbonyliodo[(1,2,3,3*a*,7*a*- η)-1*H*-inden-1-yl](trimethylphosphite-*P*)iron, Fe-01097**C₁₃H₁₆FeLiN**

1-[(Dimethylamino)methyl]-2-lithioferrocene, Fe-01098

C₁₃H₁₆FeN⁺(η^5 -2,4-Cyclopentadien-1-yl)(*N,N*-dimethylaniline)-iron(1+), Fe-01099**C₁₃H₁₆FeO**Carbonylbis[(1,2,3,4- η)-1,3-cyclohexadiene]iron, Fe-01100
(1-Hydroxy-1-methylethyl)ferrocene, Fe-01101**C₁₃H₁₆FeOP₂**[(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphole-2-carboxaldehydato][(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-1-yl]iron, Fe-01102**C₁₃H₁₆FeO₂P₂**[(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl]-[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphole-2-carboxylato]iron, Fe-01103**C₁₃H₁₆FeO₃**Tricarbonyl(η^4 -7-methyl-3-methylene-1,6-octadiene)iron, Fe-01104Tricarbonyl[(1,2,3,4- η)-5,5,6,6-tetramethyl-1,3-cyclohexadiene]iron, Fe-01105**C₁₃H₁₆FeO₃Si**Tricarbonyl[(2,3,4,5- η)-2,4,6-cycloheptatrien-1-yl]-trimethylsilane]iron, Fe-01106**C₁₃H₁₇BF₄FeO**Carbonyl[(1,2,3,4- η)-1,3-cycloheptadiene][(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]iron(1+); Tetrafluoroborate, *in* Fe-01109**C₁₃H₁₇F₆FePS**(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-tetramethylthiophene]iron(1+); Hexafluorophosphate, *in* Fe-01110**C₁₃H₁₇Fe⁺**[(1,2,5,6- η)-1,5-Cyclooctadiene](η^5 -2,4-cyclopentadien-1-yl)ferrate(1-), Fe-01107**C₁₃H₁₇FeN**

(Ferrocenylmethyl)dimethylamine, Fe-01108

C₁₃H₁₇FeNOP₂[(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphole-2-carboxaldehydato][(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-1-yl]iron; Oxime, *in* Fe-01102**C₁₃H₁₇FeO⁺**Carbonyl[(1,2,3,4- η)-1,3-cycloheptadiene][(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]iron(1+), Fe-01109**C₁₃H₁₇FeS⁺**(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-tetramethylthiophene]iron(1+), Fe-01110**C₁₃H₁₈BFeNO₂**

2-[(Dimethylamino)methyl]ferroceneboronic acid, Fe-01111

C₁₃H₁₈FeGe

(Trimethylgermyl)ferrocene, Fe-01112

C₁₃H₁₈FeN₂O₃Tricarbonylbis(2-isocyano-2-methylpropane)iron, Fe-01113
Tricarbonyl(2,2,4-triethyl-5-methyl-2*H*-imidazole)iron, Fe-01114**C₁₃H₁₈FeOP₂**[(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphole-2-methanolato]-[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-1-yl]-iron, Fe-01115**C₁₃H₁₈FeO₂**Dicarbonylmethyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, Fe-01116**C₁₃H₁₈FeSi**

(Trimethylsilyl)ferrocene, Fe-01117

C₁₃H₁₈FeSn

(Trimethylstannyl)ferrocene, Fe-01118

C₁₃H₂₀FeN₂O₃Tricarbonyl[*N,N'*-1,2-ethanediyliidenebis[2-methyl-2-propanamine]]iron, Fe-01119**C₁₃H₂₁FeLiN₂O₂**Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-); Li salt, tetramethylethylenediamine complex (1:1), *in* Fe-00194**C₁₃H₂₁FeN₃O₆**Tetracarbonyl(methoxycarbonyl)ferrate(1-); Tris(dimethylamino)methylum salt, *in* Fe-00109**C₁₃H₂₂BFeNO₃Si**Tricarbonyl[(3,4- η)-4,5-diethyl-1,2,2,3-tetramethyl-1-aza-2-sila-5-boracyclopent-3-ene-*B*⁵,*N*¹]iron, Fe-01120**C₁₃H₂₂FeN₂O**(η^4 -1,3-Butadiene)carbonyl[*N,N'*-1,2-ethanediyliidenebis[2-propanamine]-*N,N'*]iron, Fe-01121**C₁₃H₂₄BFeNO₂Si**Dicarbonyl[(3,4,5- η)-1-(1,1-dimethylethyl)-2,3-dihydro-2-methyl-1*H*-1,2-azaborol-3-yl-*B*²,*N*¹]-trimethylsilyl]iron, Fe-01122

- C₁₃H₂₆FeO₆P₂**
[(1,2,3,4,5,6- η)-Methylbenzene]bis(trimethyl phosphite-*P*)iron, Fe-01123
- C₁₃H₃₃FeO₉P₃**
(η^4 -1,3-Butadiene)tris(trimethyl phosphite-*P*)iron, Fe-01124
- C₁₃H₃₃FeP₃**
(η^4 -1,3-Butadiene)tris(trimethylphosphine)iron, Fe-01125
- C₁₃H₃₄FeO₉P₃[⊖]**
[(1,2,3- η)-2-Butenyl]tris(trimethyl phosphite-*P*)iron(1+), Fe-01126
- C₁₃H₃₆FeO₁₃P₄**
Carbonyltetrakis(trimethyl phosphite-*P*)iron, Fe-01127
- C₁₄F₄Fe₂O₈**
Octacarbonyl[μ -(3,4,5,6-tetrafluoro-1,2-phenylene)]-diiron, Fe-01128
- C₁₄FeMnO₁₄Re**
Pentacarbonyl(pentacarbonylmanganese)-(tetracarbonyliron)rhenium, Fe-01129
- C₁₄FeMn₂O₁₄**
Tetracarbonylbis(pentacarbonylmanganio)iron, Fe-01130
- C₁₄FeO₁₄Re₂**
Tetracarbonylbis(pentacarbonylrhenio)iron, Fe-01131
- C₁₄Fe₄O₁₃**
 μ -Carbonyldodecacarbonyl- μ_4 -methanetetrayltetrairon, Fe-01132
- C₁₄Fe₅NO₁₄[⊖]**
 μ -Carbonyltridecacarbonyl- μ_5 -nitridopentaferrate(1-), Fe-01133
- C₁₄Fe₅O₁₃S₃**
[μ_4 -(Carbonothioyl-C:C:S:S)]tridecacarbonyldi- μ_3 -thioxopentairon, Fe-01134
- C₁₄HFe₅NO₁₄**
Tri- μ -carbonylundecacarbonyl- μ -hydro- μ_5 -nitridopentairon, Fe-01135
- C₁₄H₃Fe₄O₁₃[⊖]**
 μ -Carbonylundecacarbonyl[μ_3 -(methoxymethylidyne)]-tetrafferrate(1-), Fe-01136
- C₁₄H₄Fe₄O₁₃**
Dodecacarbonyl- μ -hydro[μ_4 -(methoxymethylidyne-C:C:C:C,O)]tetrairon, Fe-01137
- C₁₄H₅F₅FeO₃**
Tricarbonyl[(5-pentafluorophenyl)-1,3-cyclopentadiene]-iron, Fe-01138
- C₁₄H₆Fe₂O₆**
[μ -(Bi-1,3-cyclobutadien-1-yl)]hexacarbonyldiiron, Fe-01139
Hexacarbonyl[μ -(η^2 : η^4 -(3,5-cyclohexadiene-1,2-diylidenedimethylidyne))]diiron, Fe-01140
Hexacarbonyl[μ -(η^2 : η^4 -1,2-ethenediyl-1,2-phenylene)]-diiron, Fe-01141
- C₁₄H₆Fe₂O₆S₂**
[μ -[Bis(η^4 -1,3-cyclobutadien-1-yl)disulfide]]-hexacarbonyldiiron, Fe-01142
- C₁₄H₆Fe₄O₁₂S₃**
Dodecacarbonylbis(μ -methanethiolato)- μ_4 -thioxotetrairon, Fe-01143
- C₁₄H₈FeO₄**
Tricarbonyl(1-benzoyl-1,3-cyclobutadiene)iron, Fe-01144
- C₁₄H₈Fe₂I₂O₄**
Di- μ -carbonyldicarbonylbis(η^5 -1-iodo-2,4-cyclopentadien-1-yl)diiron, Fe-01145
- C₁₄H₈Fe₂O₆**
Hexacarbonyl[μ -(1,2,3,4- η :5,6,7,8- η)-1,3,5,7-cyclooctatetraene)]diiron, Fe-01146
- C₁₄H₉FeNO₃**
Tricarbonyl[(2,3,4,5- η)-5-phenyl-2,4-pentadienenitrile]-iron, Fe-01147
- C₁₄H₁₀FeN₂O₅S**
Tricarbonyl[(4,5,6,7- η)-1*H*-1,2-diazepine]iron; 1-Phenylsulfonyl, *in* Fe-00267
- C₁₄H₁₀FeN₄O₂**
Bis(isocyanobenzene)dinitrosyliron, Fe-01148
- C₁₄H₁₀FeO₂**
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3*a*,7*a*- η)-4,7-dihydro-4,7-dioxo-1*H*-inden-1-yl]iron, Fe-01149
- C₁₄H₁₀FeO₂S₃**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(phenyltrithiocarbonato-*S*)iron, Fe-01150
- C₁₄H₁₀FeO₃**
Benzoyldicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01151
- C₁₄H₁₀FeO₄**
Tricarbonyl[α -(1,2,3,4- η)-1,3-cyclobutadien-1-yl]-benzenemethanol]iron, Fe-01152
Tricarbonyl(η^4 -2-methylene-1-phenyl-3-buten-1-one)iron, Fe-01153
Tricarbonyl[η^4 -2-(2-oxo-2-phenylethylidene)-1,3-propanediyl]iron, Fe-01154
Tricarbonyl[(2,3,4,5- η)-5-phenyl-2,4-pentadienal]iron, Fe-01155
Tricarbonyl[(2,3,4,5- η)-1-phenyl-2,4-pentadien-1-one]-iron, Fe-01156
- C₁₄H₁₀FeO₅**
(1,3-Butadien-1-ol)tricarbonyliron; Benzoyl, *in* Fe-00203
(1,3-Butadien-2-ol)tricarbonyliron; Benzoyl, *in* Fe-00204
Tetracarbonyl[(3,4- η)-4-phenyl-3-buten-2-one]iron, Fe-01157
Tricarbonyl[4-(η^4 -1,3-butadienyl)benzoic acid]iron, Fe-01158
Tricarbonyl[(2,3,4,5- η)-5-phenyl-2,4-pentadienoic acid]iron, Fe-01159
- C₁₄H₁₀FeO₆**
Tetracarbonyl[(2,3- η)-3-phenyl-2-propenoic acid]iron; Me ester, *in* Fe-01009
- C₁₄H₁₀Fe₂HgO₄**
Tetracarbonylbis(η^5 -2,4-cyclopentadien-1-yl)(mercury)-diiron, Fe-01160
- C₁₄H₁₀Fe₂MgO₄**
Bis[dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron]-magnesium, Fe-01161
- C₁₄H₁₀Fe₂O₂S₂**
Bis[μ -(carbonothioyl)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01162
- C₁₄H₁₀Fe₂O₃S**
[μ -(Carbonothioyl)]- μ -carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01163
- C₁₄H₁₀Fe₂O₄**
Di- μ -carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)-diiron, Fe-01164
- C₁₄H₁₀Fe₂O₄Zn**
Tetracarbonylbis(η^5 -2,4-cyclopentadien-1-yl)(zinc)-diiron, Fe-01165
- C₁₄H₁₀Fe₂O₆**
Hexacarbonyl[(1,5,6- η :2,3,4- η)-1,3,5-cyclooctatriene]-diiron, Fe-01166
Hexacarbonyl[μ -[1-(η : η^5 -2,4-cyclopentadien-1-ylidene)-1-methylethylidene]]diiron, Fe-01167
- C₁₄H₁₁BF₄Fe₂O₃**
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylidenediiron(1+); Tetrafluoroborate, *in* Fe-01174
- C₁₄H₁₁BrFeO₂**
(η^5 -Benzylcyclopentadienyl)bromodicarbonyliron, Fe-01168
- C₁₄H₁₁F₆FeO₂P**
Benzylidenedicarbonyl(η^5 -cyclopentadienyl)iron(1+); Hexafluorophosphate, *in* Fe-01172
Dicarbonyl-2,4,6-cycloheptatrien-1-ylidene(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-01173

- C₁₄H₁₁F₆Fe₂O₃P**
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylidynediiron(1+); Hexafluorophosphate, *in* Fe-01174
- C₁₄H₁₁FeIO₂**
 Dicarboxyiodo[(1,2,3,4,5- η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl]iron, Fe-01169
- C₁₄H₁₁FeNO₄**
 [(1,2,3- η)-2-Butene-1,4-diyl][(phenylimino)carbonyl]-tricarboxyliron, Fe-01170
 Tetracarboxyl[N-(3-phenyl-2-propenylidene)methanamine]-iron, Fe-01171
- C₁₄H₁₁FeO₂⁺**
 Benzylidenedicarbonyl(η^5 -cyclopentadienyl)iron(1+), Fe-01172
 Dicarboxyl-2,4,6-cycloheptatrien-1-ylidene(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-01173
- C₁₄H₁₁FeO₃⁺**
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylidynediiron(1+), Fe-01174
- C₁₄H₁₂Fe**
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3a,7a- η)-1*H*-inden-1-yl]iron, Fe-01175
- C₁₄H₁₂FeN₂**
 1,1'-Ferrocenediacetonitrile, *in* Fe-01208
 4-Pyrimidinylferrocene, Fe-01176
- C₁₄H₁₂FeO₂**
 Benzylidencarbonyl- π -cyclopentadienyliron, Fe-01177
 Dicarboxyl-1,3,5-cycloheptatrien-1-yl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01178
 Dicarboxyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]phenyliron, Fe-01179
 [4]Ferrocenophane-1,4-dione, Fe-01180
- C₁₄H₁₂FeO₃**
 Tricarboxyl[(1,3,3a,7a- η)-2,2-dimethyl-2*H*-indene]iron, Fe-01181
- C₁₄H₁₂FeS**
 (2-Thienyl)ferrocene, Fe-01182
- C₁₄H₁₂Fe₂O₃**
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylenediiron, Fe-01183
- C₁₄H₁₂Fe₂O₆**
 Hexacarboxyl[μ -[(1,2,3,4- η :1,4- η)-1,2,3,4-tetramethyl-1,3-butadiene-1,4-diyl]]diiron, Fe-01184
 Hexacarboxyl[μ -[(1,2,3- η :2,3,4- η)-1,1,4,4-tetramethyl-2-butyne-1,4-diyl]]diiron, Fe-01185
- C₁₄H₁₃BF₄Fe₂O₃**
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylidynediiron(1+); Tetrafluoroborate, *in* Fe-01191
- C₁₄H₁₃ClFeO₂**
 1-Acetyl-1'-(chloroacetyl)ferrocene, Fe-01186
- C₁₄H₁₃FeN**
 (1-Cyanocyclopropyl)ferrocene, Fe-01187
 (1-Pyrrolyl)ferrocene, Fe-01188
 (2-Pyrrolyl)ferrocene, Fe-01189
 (3-Pyrrolyl)ferrocene, Fe-01190
- C₁₄H₁₃Fe₂O₃⁺**
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylidynediiron(1+), Fe-01191
- C₁₄H₁₄Fe**
 (η^6 -Benzene)[(1,2,3,4- η)-1,3,5,7-cyclooctatetraene]-iron, Fe-01192
 1,3-Butadienylferrocene, Fe-01193
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3a,7a- η)-4,5-dihydro-1*H*-inden-1-yl]iron, Fe-01194
 1,1'-Divinylferrocene, Fe-01195
 1,2-Divinylferrocene, Fe-01196
 [4]Ferrocenophane-2-ene, Fe-01197
- C₁₄H₁₄FeO**
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3a,7a- η)-4,5,6,7-tetrahydro-4-oxo-1*H*-inden-1-yl]iron, Fe-01198
- [4]Ferrocenophane-1-one, Fe-01199
 [4]Ferrocenophane-2-one, Fe-01200
 1-Ferrocenyl-2-buten-1-one, Fe-01201
 4-Ferrocenyl-3-buten-2-one, Fe-01202
- C₁₄H₁₄FeO₂**
 1,1'-Diacetylferrocene, Fe-01203
 1,2-Diacetylferrocene, Fe-01204
 1,3-Diacetylferrocene, Fe-01205
 (1,3-Dioxobutyl)ferrocene, Fe-01206
- C₁₄H₁₄FeO₃**
 γ -Oxoferrocenebutanoic acid, Fe-01207
- C₁₄H₁₄FeO₄**
 1,1'-Dihydroxyferrocene; Di-Ac, *in* Fe-00569
 1,1'-Ferrocenediacetic acid, Fe-01208
 1,1'-Ferrocenedicarboxylic acid; Di-Me ester, *in* Fe-00860
- C₁₄H₁₄FeO₅**
 [2-[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-dien-7-yl]-ethanol]tricarboxyliron; Ac, *in* Fe-00910
- C₁₄H₁₄Fe₂N₄O₄S₂**
 Bis(μ -benzylthio)tetranitrosyldiiron, Fe-01209
- C₁₄H₁₄Fe₂N₄O₄Se₂**
 Bis(μ -benzylseleno)tetranitrosyldiiron, Fe-01210
- C₁₄H₁₄Fe₂N₄O₄Te₂**
 Bis(μ -benzyltelluro)tetranitrosyldiiron, Fe-01211
- C₁₄H₁₅F₆FeP**
 [η^1 -1-(3-Phenylpropyl)-2,4-cyclopentadien-1-yl]-iron(1+); Hexafluorophosphate, *in* Fe-01212
- C₁₄H₁₅Fe⁺**
 [η^1 -1-(3-Phenylpropyl)-2,4-cyclopentadien-1-yl]-iron(1+), Fe-01212
- C₁₄H₁₅FeN**
 (1-Cyano-1-methylethyl)ferrocene, Fe-01213
- C₁₄H₁₆BF₄Fe₂O₂S₂**
 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron(1+); Tetrafluoroborate, *in* Fe-01232
- C₁₄H₁₆B₂F₈Fe₂O₂S₂**
 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron(2+); Bis(tetrafluoroborate), *in* Fe-01233
- C₁₄H₁₆F₆Fe₂O₂PS₂**
 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron(1+); Hexafluorophosphate, *in* Fe-01232
- C₁₄H₁₆F₆Fe₂O₂S₂Sb**
 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron(1+); Hexafluoroantimonate, *in* Fe-01232
- C₁₄H₁₆F₁₂FeP₂**
 Bis[(1,2,3,4,5,6- η)-methylbenzene]iron(2+); Bis(hexafluorophosphate), *in* Fe-01214
- C₁₄H₁₆F₁₂Fe₂O₂P₂S₂**
 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron(2+); Bis(hexafluorophosphate), *in* Fe-01233
- C₁₄H₁₆Fe²⁺**
 Bis[(1,2,3,4,5,6- η)-methylbenzene]iron(2+), Fe-01214
 [(1,2,3,4,5- η)-2,4-Cycloheptadien-1-yl][(1,2,3,4,5- η)-2,4,6-cycloheptatrien-1-yl]iron, Fe-01215
 [(1,2,3,4- η)-1,3,5-Cycloheptatriene][(1,2,3,4,5,6- η)-methylbenzene]iron, Fe-01216
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3a,7a- η)-4,5,6,7-tetrahydro-1*H*-inden-1-yl]iron, Fe-01217
 [4]Ferrocenophane, Fe-01218
- C₁₄H₁₆FeLiNO₂**
 2-[(Dimethylamino)methyl]ferrocenecarboxylic acid; Li salt, *in* Fe-01239
- C₁₄H₁₆FeN₂**
 1-Cyano-2-[(dimethylamino)methyl]ferrocene, Fe-01219

$C_{14}H_{16}FeN_2O_4$ 1,1'-Diaminoferrocene; Bis(methoxycarbonyl), *in* Fe-00616 **$C_{14}H_{16}FeO$**

1-Acetyl-1',2-dimethylferrocene, Fe-01220

1-Acetyl-1',3-dimethylferrocene, Fe-01221

1-Acetyl-1'-ethylferrocene, Fe-01222

1-Acetyl-2-ethylferrocene, Fe-01223

1-Acetyl-3-ethylferrocene, Fe-01224

 $(\eta^5-2,4\text{-Cyclopentadien-1-yl})[(1,2,3,3a,7a\text{-}\eta)\text{-}4,5,6,7\text{-tetrahydro-4-hydroxy-1}H\text{-inden-1-yl}]$ iron, Fe-01225Isomer 2, *in* Fe-01225

1,1'-(Oxydiethylidene)ferrocene, Fe-01226

 $C_{14}H_{16}FeO_2$ Ferrocenepropanoic acid; Me ester, *in* Fe-010781-Ferrocenylethanol; Ac, *in* Fe-00941 **$C_{14}H_{16}FeO_2S$**

[1-[(Carboxymethyl)thio]ethyl]ferrocene, Fe-01227

 $C_{14}H_{16}FeO_3$

Ferrocenebutanoic acid, Fe-01228

 $C_{14}H_{16}FeO_4Si_2$

Tetracarbonyl[(1,2-phenylenebis(dimethylsilylene))]iron, Fe-01229

 $C_{14}H_{16}FeS_2$

1,3-Dithian-2-ylferrocene, Fe-01230

 $C_{14}H_{16}Fe_2I_3O_2S_2$ Dicarbonylbis($\eta^5-2,4\text{-cyclopentadien-1-yl}$)bis[μ -(methanethiolato)]diiron(1+); Triiodide, *in* Fe-01232 **$C_{14}H_{16}Fe_2O_2S_2$** Dicarbonylbis($\eta^5-2,4\text{-cyclopentadien-1-yl}$)bis[μ -(methanethiolato)]diiron, Fe-01231Dicarbonylbis($\eta^5-2,4\text{-cyclopentadien-1-yl}$)bis[μ -(methanethiolato)]diiron(1+), Fe-01232Dicarbonylbis($\eta^5-2,4\text{-cyclopentadien-1-yl}$)bis[μ -(methanethiolato)]diiron(2+), Fe-01233 **$C_{14}H_{17}BF_4Fe$** $(\eta^5-2,4\text{-Cyclopentadien-1-yl})[(1,2,3,4,5,6\text{-}\eta)\text{-}1,3,5\text{-trimethylbenzene}]$ iron(1+); Tetrafluoroborate, *in* Fe-01235 **$C_{14}H_{17}BF_4FeO$** Carbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-[(1,2,3,4- η)-1,3-cyclohexadiene]iron(1+); Tetrafluoroborate, *in* Fe-01240 **$C_{14}H_{17}ClFeO_2$** Dicarbonylchloro[(1,2,3,4,5- η)-1,2,3,4-tetramethyl-5-(1-methylethenyl)-2,4-cyclopentadien-1-yl]iron, Fe-01234 **$C_{14}H_{17}F_6FeP$** $(\eta^5-2,4\text{-Cyclopentadien-1-yl})[(1,2,3,4,5,6\text{-}\eta)\text{-}1,3,5\text{-trimethylbenzene}]$ iron(1+); Hexafluorophosphate, *in* Fe-01235 **$C_{14}H_{17}Fe^{\oplus}$** $(\eta^5-2,4\text{-Cyclopentadien-1-yl})[(1,2,3,4,5,6\text{-}\eta)\text{-}1,3,5\text{-trimethylbenzene}]$ iron(1+), Fe-01235 **$C_{14}H_{17}FeI$** $(\eta^5-2,4\text{-Cyclopentadien-1-yl})[(1,2,3,4,5,6\text{-}\eta)\text{-}1,3,5\text{-trimethylbenzene}]$ iron(1+); Iodide, *in* Fe-01235 **$C_{14}H_{17}FeN$** [(1,2,3,3a,7a- η)-4-Amino-4,5,6,7-tetrahydro-1*H*-inden-1-yl]($\eta^5-2,4\text{-cyclopentadien-1-yl}$)iron, Fe-01236 $(\eta^5-2,4\text{-Cyclopentadien-1-yl})[(4a,5,6,7,7a\text{-}\eta)\text{-}1,2,3,4\text{-tetrahydro-4a}H\text{-2-pyridin-4a-yl}]$ iron; *N*-Me, *in* Fe-010811*H*-Tetrahydro-2,3,4,5-ferroceno[*c*]azepine, Fe-01237 **$C_{14}H_{17}FeNO$**

1'-[(Dimethylamino)methyl]ferrocenecarboxaldehyde, Fe-01238

 $C_{14}H_{17}FeNO_2$

2'-[(Dimethylamino)methyl]ferrocenecarboxylic acid, Fe-01239

 $C_{14}H_{17}FeO^{\oplus}$ Carbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-[(1,2,3,4- η)-1,3-cyclohexadiene]iron(1+), Fe-01240 **$C_{14}H_{18}B_2FeO$** [(1,2,3,4,5,6- η)-2-Acetyl-1-methylboratabenzene]-[(1,2,3,4,5,6- η)-1-methylboratabenzene]iron, Fe-01241 **$C_{14}H_{18}Fe$** $(\eta^6\text{-Benzene})[(1,2,5,6\text{-}\eta)\text{-}1,5\text{-cyclooctadiene}]$ iron, Fe-01242Bis[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iron, Fe-01243*tert*-Butylferrocene, Fe-01244

1,1'-Diethylferrocene, Fe-01245

1,2-Diethylferrocene, Fe-01246

1,3-Diethylferrocene, Fe-01247

[(1,2,3,4,5,6- η)-Methylbenzene][(1,2,3,4- η)-methyl-1,3-cyclohexadiene]iron, Fe-01248

1,1',2,2'-Tetramethylferrocene, Fe-01249

 $C_{14}H_{18}FeO$ Carbonyl[(1,2,3,4- η)-1,3-cycloheptadiene][(1,2,3,4- η)-1,3-cyclohexadiene]iron, Fe-01250Carbonyl[(1,2,4,5- η)-1,4-cycloheptadiene][(1,2,3,4- η)-1,3-cyclohexadiene]iron, Fe-01251 **$C_{14}H_{18}FeOP_2$** [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl][1-[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-2-yl]-ethanonato]iron, Fe-01252 **$C_{14}H_{18}FeOSi$**

[(Trimethylsilyl)carbonyl]ferrocene, Fe-01253

 $C_{14}H_{18}FeO_2$

1,1'-Bis(1-hydroxyethyl)ferrocene, Fe-01254

Dicarbonyl[(1,2,3,4,5,6- η)-hexamethylbenzene]iron, Fe-01255 **$C_{14}H_{18}FeO_3$** Acetyldicarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, Fe-01256 **$C_{14}H_{18}FeO_4$** Tetracarbonyl[(3,4- η)-2,2,5,5-tetramethyl-3-hexyne]-iron, Fe-01257 **$C_{14}H_{18}Fe_2O_8Si_2$**

Octacarbonylbis(trimethylsilyl)diiron, Fe-01258

 $C_{14}H_{18}Fe_2O_8Sn_2$

Octacarbonylbis(trimethylstannyl)diiron, Fe-01259

 $C_{14}H_{19}FeN$

[1-(Dimethylamino)ethyl]ferrocene, Fe-01260

1-[(Dimethylamino)methyl]-2-methylferrocene, Fe-01261

1-Ferrocenyl-2-methyl-1-propylamine, Fe-01262

 $C_{14}H_{19}FeNO$ *tert*-Butyl ferrocenyl nitroxide, Fe-01263

1-[(Dimethylamino)methyl]-2-(hydroxymethyl)ferrocene, Fe-01264

 $C_{14}H_{19}FeNOS$ (Thiocarboxy)ferrocene; Trimethylammonium salt, *in* Fe-00710 **$C_{14}H_{19}FeNS$**

1-(Dimethylamino)methyl-2-methylthioferrocene, Fe-01265

 $C_{14}H_{20}As_2Fe$

1,1'-Bis(dimethylarsino)ferrocene, Fe-01266

 $C_{14}H_{20}As_2FeS_2$ 1,1'-Bis(dimethylarsino)ferrocene; Bissulfide, *in* Fe-01266 **$C_{14}H_{20}FeGe_2$**

1,1'-(1,1,2,2-Tetramethyl-1,2-digermanediyl)ferrocene, Fe-01267

 $C_{14}H_{20}FeN_2$

1,1'-Bis(1-aminoethyl)ferrocene, Fe-01268

1,1'-Bis(*N,N*-dimethylamino)ferrocene, Fe-01269 **$C_{14}H_{20}FeOP_2$** [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl]-[(1,2,3,4,5- η)- α ,3,4-trimethyl-1*H*-phosphole-2-methanolato]iron, Fe-01270

- C₁₄H₂₀FeOSi₂**
1,1'-(1,1,3,3-Tetramethyl-1,3-disiloxanediyl)ferrocene, Fe-01271
- C₁₄H₂₀FeP₂**
1,1'-Bis(dimethylphosphino)ferrocene, Fe-01272
[(1,2,3,4,5-η)-3,4-Dimethyl-1*H*-phosphol-1-yl]-
[(1,2,3,4,5-η)-2-ethyl-3,4-dimethyl-1*H*-phosphol-
1-yl]iron, Fe-01273
- C₁₄H₂₀FeSi₂**
1,1'-(1,1,2,2-Tetramethyl-1,2-disilanediy)ferrocene, Fe-01274
- C₁₄H₂₁Al₂ClFe**
μ-Chloro-μ-ferrocenylidenetetramethyldialuminum, Fe-01275
- C₁₄H₂₂Fe**
Bis[(1,2,3,4,5-η)-2,3-dimethyl-2,4-pentadienyl]iron, Fe-01276
Bis[(1,2,3,4,5-η)-2,4-dimethyl-2,4-pentadienyl]iron, Fe-01277
- C₁₄H₂₄FeN₄O₅**
Tetracarbonyl[(dimethylamino)carbonyl]ferrate(1-); Tris(di-
methylamino)methylum salt, *in* Fe-00197
- C₁₄H₂₅B₃Fe**
[(1,2,3,4,5,6-η)-1,3,5-Cyclooctatriene][(1,2,3,4,5-η)-
pentahydro-1,2-diethyl-1,2-dicarbapentaborato(2-)]-
iron, Fe-01278
- C₁₄H₂₉BF₄FeO₆P₂**
Methyl[(1,2,3,4,5,6-η)-methylbenzene]bis(trimethyl
phosphite-*P*)iron(1+); Tetrafluoroborate, *in* Fe-01280
- C₁₄H₂₉B₉Fe**
[(1,2,3,4,5,6-η)-Hexamethylbenzene][(7,8,9,10,11-η)-
undecahydro-7,8-dicarbaundecaborato(2-)]iron, Fe-01279
- C₁₄H₂₉FeO₆P₂[⊕]**
Methyl[(1,2,3,4,5,6-η)-methylbenzene]bis(trimethyl
phosphite-*P*)iron(1+), Fe-01280
- C₁₄H₃₂BrFeP₃**
(η⁵-2,4-Cyclopentadien-1-yl)tris(trimethylphosphine)-
iron(1+); Bromide, *in* Fe-01282
- C₁₄H₃₂F₆FeO₉P₄**
(η⁵-2,4-Cyclopentadien-1-yl)tris(trimethyl
phosphite-*P*)iron(1+); Hexafluorophosphate, *in* Fe-01281
- C₁₄H₃₂F₆FeP₄**
(η⁵-2,4-Cyclopentadien-1-yl)tris(trimethylphosphine)-
iron(1+); Hexafluorophosphate, *in* Fe-01282
- C₁₄H₃₂F₁₂FeP₅**
(η⁵-2,4-Cyclopentadien-1-yl)tris(trimethylphosphine)-
iron(2+); Bis(hexafluorophosphate), *in* Fe-01283
- C₁₄H₃₂FeO₉P₃[⊕]**
(η⁵-2,4-Cyclopentadien-1-yl)tris(trimethyl
phosphite-*P*)iron(1+), Fe-01281
- C₁₄H₃₂FeP₃[⊕]**
(η⁵-2,4-Cyclopentadien-1-yl)tris(trimethylphosphine)-
iron(1+), Fe-01282
(η⁵-2,4-Cyclopentadien-1-yl)tris(trimethylphosphine)-
iron(2+), Fe-01283
- C₁₅Fe₅O₁₄^{⊖⊖}**
(Carbon)tetradecacarbonylpentaferrate(2-), Fe-01284
- C₁₅H₃Fe₄O₁₄[⊖]**
Dodecacarbonyl[μ₄-(methoxyoxoethylidyne)]-
tetraferrate(1-), Fe-01285
- C₁₅H₅AsFe₃O₉S**
Nonacarbonyl[μ₃-(phenylarsinidene)]-μ₃-thioxotriiron,
Fe-01286
- C₁₅H₅Fe₃O₉PS**
Nonacarbonyl(μ₃-phenylphosphido)(μ₃-thio)triiron, Fe-01287
- C₁₅H₇CoFeO₆**
Di-μ-carbonylcarbonyl[(1,2,3,3*a*,7*a*-η)-1*H*-inden-1-yl]-
(tricarbonylcobalt)iron, Fe-01288
- C₁₅H₇Fe₃O₉P**
Nonacarbonyldi-μ-hydro[μ₃-(phenylphosphinidene)]-
triiron, Fe-01289
- C₁₅H₈F₅FeNO₂**
Dicarbonyl(methyl isocyanide)[5-(pentafluorophenyl)-
1,3-cyclopentadiene]iron, Fe-01290
- C₁₅H₈Fe₂O₅**
[μ-[(1,2,3,3*a*,8*a*-η:4,5,6-η)Azulene]]-
pentacarbonyldiiron, Fe-01291
- C₁₅H₉BrCrFeO₄**
Bromotetracarbonyl(ferrocenylmethylidyne)chromium,
Fe-01292
- C₁₅H₉BrFeMoO₄**
Bromotetracarbonyl(ferrocenylmethylidyne)molybdenum,
Fe-01293
- C₁₅H₉BrFeO₄W**
Bromotetracarbonyl(ferroceniumylmethylidyne)tungsten,
Fe-01294
- C₁₅H₁₀CrFeO₅**
Tricarbonyl(η⁵-2,4-cyclopentadien-1-yl)[dicarbonyl(η⁵-
2,4-cyclopentadien-1-yl)iron]chromium, Fe-01295
- C₁₅H₁₀FeMoO₅**
Tricarbonyl(η⁵-2,4-cyclopentadien-1-yl)[dicarbonyl(η⁵-
2,4-cyclopentadien-1-yl)iron]molybdenum, Fe-01296
- C₁₅H₁₀FeN₂O₄**
Tricarbonyl[(4,5,6,7-η)-1*H*-1,2-diazepine]iron; 1-Benzoyl, *in*
Fe-00267
- C₁₅H₁₀FeO₂**
Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(phenylethynyl)-
iron, Fe-01297
- C₁₅H₁₀FeO₃**
[(5,6,7,8-η)-Benzocyclooctatetraene]tricarbonyliron, Fe-01298
- C₁₅H₁₀FeO₅W**
Tricarbonyl(η⁵-2,4-cyclopentadien-1-yl)[dicarbonyl(η⁵-
2,4-cyclopentadien-1-yl)iron]tungsten, Fe-01299
- C₁₅H₁₀Fe₄N₂O₁₂**
Tri-μ-carbonyloctacarbonyl[μ₄-(ethanaminato(2-))][μ₄-
(nitrosoethane-*N:N:O:O*)]tetrairon, Fe-01300
- C₁₅H₁₁F₆FeO₂P**
[(7,8-η)Bicyclo[4.2.0]octa-1,3,5,7-tetraene]-
dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron(1+); Hexafluoro-
phosphate, *in* Fe-01302
- C₁₅H₁₁FeNO₂**
Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)(η¹-1*H*-indol-1-
yl)iron, Fe-01301
- C₁₅H₁₁FeO₂[⊕]**
[(7,8-η)Bicyclo[4.2.0]octa-1,3,5,7-tetraene]-
dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)iron(1+), Fe-01302
- C₁₅H₁₂F₆FeO₃**
Tricarbonyl[(1,2,3,6-η)-1,2,3,4-tetramethyl-5,6-
bis(trifluoromethyl)benzene]iron, Fe-01303
- C₁₅H₁₂FeLiN**
1-Lithio-2-(2-pyridinyl)ferrocene, Fe-01304
- C₁₅H₁₂FeO**
(η⁵-2,4-Cyclopentadien-1-yl)[(1,2,3,3*a*,8*a*-η)-6-
oxoazulenyl]iron, Fe-01305
- C₁₅H₁₂FeOS**
(2-Thienylcarbonyl)ferrocene, Fe-01306
- C₁₅H₁₂FeO₂**
Dicarbonyl-1,3,5,7-cyclooctatetraen-1-yl(η⁵-2,4-
cyclopentadien-1-yl)iron, Fe-01307
[5]Ferrocenophan-2-ene-1,5-dione, Fe-01308
(2-Furanylcarbonyl)ferrocene, Fe-01309
- C₁₅H₁₂FeO₃**
Tricarbonyl(1-phenyl-1,3-cyclohexadiene)iron, Fe-01310
Tricarbonyl(2-phenyl-1,3-cyclohexadiene)iron, Fe-01311

- Tricarbonyl(5-phenyl-1,3-cyclohexadiene)iron, Fe-01312
- C₁₅H₁₂FeO₄**
Tricarbonyl[(3,4,5,6- η)-6-phenyl-3,5-hexadien-2-one]-iron, Fe-01313
- C₁₅H₁₂FeO₅**
Tricarbonyl[4-(η^4 -1,3-butadienyl)benzoic acid]iron; Me ester, *in* Fe-01158
- C₁₅H₁₂FeO₇**
Tricarbonyl[(4,5,6,7- η)-dimethyl-2,4,6,8-cyclooctatetraene-1,2-dicarboxylate]iron, Fe-01314
- C₁₅H₁₂FeOs**
Tricarbonyl[(2,3,4,5- η)-5-phenyl-2,4-pentadienoic acid]iron; Me ester, *in* Fe-01159
- C₁₅H₁₂Fe₂O₃**
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -ethylenediiiron, Fe-01315
- C₁₅H₁₂Fe₂O₄**
Di- μ -carbonyldicarbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)-diiron, Fe-01316
Di- μ -carbonyldicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]-diiron, Fe-01317
- C₁₅H₁₂Fe₂O₇**
Hexacarbonyl[μ -[(1,2,5- η :1,4,5- η)-1,2,4,5-tetramethyl-3-oxo-1,4-pentadiene-1,5-diyl]]diiron, Fe-01318
- C₁₅H₁₂O₂Fe**
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3*a*,8*a*- η)-5-oxo-6-hydroxyazulenyl]iron, Fe-01319
- C₁₅H₁₃BF₄Fe**
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,4*a*,8*a*- η)-naphthalene]iron(1+); Tetrafluoroborate, *in* Fe-01322
- C₁₅H₁₃BF₄Fe₂O₃**
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(η : η^2 -ethenyl)]diiron(1+); Tetrafluoroborate, *in* Fe-01329
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -ethylenediiiron(1+); Tetrafluoroborate, *in* Fe-01330
- C₁₅H₁₃BFeO₃**
Tricarbonyl[(1,2,3,6,7- η)-4,5-dihydro-1-phenyl-1*H*-borepin]iron, Fe-01320
Tricarbonyl[(1,2,3,4,5- η)-2-ethyl-1-phenyl-1*H*-borole]-iron, Fe-01321
- C₁₅H₁₃F₃Fe₂O₆S**
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylidiiiron(1+); Trifluoromethanesulfonate, *in* Fe-01191
- C₁₅H₁₃F₆FeP**
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,4*a*,8*a*- η)-naphthalene]iron(1+); Hexafluorophosphate, *in* Fe-01322
- C₁₅H₁₃F₆Fe₂O₂PS₂**
[μ -(Carbonothioyl)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(methylthio)methylidyne]]diiron(1+); Hexafluorophosphate, *in* Fe-01328
- C₁₅H₁₃Fe[⊕]**
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,4*a*,8*a*- η)-naphthalene]iron(1+), Fe-01322
- C₁₅H₁₃FeN**
2-Pyridinylferrocene, Fe-01323
(3-Pyridinyl)ferrocene, Fe-01324
- C₁₅H₁₃FeP**
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-2-phenyl-1*H*-phosphol-1-yl]iron, Fe-01325
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-3-phenyl-1*H*-phosphol-1-yl]iron, Fe-01326
- C₁₅H₁₃Fe₂NO₃**
Tricarbonylbis(η^5 -2,4-cyclopentadien-1-yl)-(isocyanomethane)diiron, Fe-01327
- C₁₅H₁₃Fe₂O₂S₂[⊕]**
[μ -(Carbonothioyl)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(methylthio)methylidyne]]diiron(1+), Fe-01328
- C₁₅H₁₃Fe₂O₃[⊕]**
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(η : η^2 -ethenyl)]diiron(1+), Fe-01329
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -ethylenediiiron(1+), Fe-01330
- C₁₅H₁₄BCl₂FeN**
Dichloroferrocenyl(pyridine)boron, *in* Fe-00543
- C₁₅H₁₄FeO₂**
Benzyl(methyl- π -cyclopentadienyl)dicarbonyliron, Fe-01331
Dicarbonylmethyl[(1,2,3,4,5- η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl]iron, Fe-01332
[5]Ferrocenophane-1,5-dione, Fe-01333
- C₁₅H₁₄FeO₄S**
Tricarbonyl[1-(phenylsulfinyl)-2,3-dimethyl-1,3-butadiene]iron, Fe-01334
- C₁₅H₁₄FeO₅S**
Tricarbonyl[1-(phenylsulfonyl)-2,3-dimethyl-1,3-butadiene]iron, Fe-01335
- C₁₅H₁₄FeO₇**
Tricarbonyl[(2,3,4,5- η)-2,4,6,8-decatetraenedioic acid]iron; Di-Me ester, *in* Fe-01033
Tricarbonyl[(4,5,6,7- η)-2,4,6,8-decatetraenedioic acid]iron; Di-Me ester, *in* Fe-01034
- C₁₅H₁₄Fe₂O₃**
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -ethylenediiiron, Fe-01336
- C₁₅H₁₄Fe₂O₄**
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(methoxymethylene)]diiron, Fe-01337
- C₁₅H₁₅BFeO₃Si**
Tricarbonyl[(2,3,4,5,6- η)-1,1-dimethyl-4-phenyl-1-sila-4-boracyclohexa-2,5-diene]iron, Fe-01338
- C₁₅H₁₆Fe**
[(1,2,3,4- η)-1,3,5,7-Cyclooctatetraene][(1,2,3,4,5,6- η)-methylbenzene]iron, Fe-01339
1,1'-(1,3-Cyclopentanediy)ferrocene, Fe-01340
(1-Cyclopenten-1-yl)ferrocene, Fe-01341
- C₁₅H₁₆FeO**
[5]Ferrocenophan-1-one, Fe-01342
- C₁₅H₁₆FeO₃**
Ethyl ferrocenoylacetate, *in* Fe-01056
 γ -Oxoferrocenebutanoic acid; Me ester, *in* Fe-01207
- C₁₅H₁₆Fe₂GeO₃**
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(dimethylgermylene)]diiron, Fe-01343
- C₁₅H₁₆Fe₂O₃Sn**
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(dimethylstannylene)]diiron, Fe-01344
- C₁₅H₁₈Fe**
[5]Ferrocenophane, Fe-01345
- C₁₅H₁₈FeO₂**
Ferrocenepentanoic acid, Fe-01346
- C₁₅H₁₈FeO₂S**
[1-[(Carboxymethyl)thio]ethyl]ferrocene; Me ester, *in* Fe-01227
- C₁₅H₁₈FeO₃**
Ferrocenebutanoic acid; Me ester, *in* Fe-01228
- C₁₅H₁₈FeO₄**
(5-Acetyl-1,2,3,4,5-pentamethyl-1,3-cyclopentadiene)-tricarbonyliron, Fe-01347
Tricarbonyl[(2,3,4,5- η)-2,3,4,5,6,6-hexamethyl-2,4-cyclohexadien-1-one]iron, Fe-01348
- C₁₅H₁₉BF₄FeO**
Carbonyl[(1,2,3,4- η)-1,3-cycloheptadiene][(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iron(1+); Tetrafluoroborate, *in* Fe-01352

- C₁₅H₁₉FeN**
(1-Pyrrolidinylmethyl)ferrocene, Fe-01349
- C₁₅H₁₉FeNO**
1-Acetyl-1'-[(dimethylamino)methyl]ferrocene, Fe-01350
1-Acetyl-2'-[(dimethylamino)methyl]ferrocene, Fe-01351
- C₁₅H₁₉FeO[⊕]**
Carbonyl[(1,2,3,4-η)-1,3-cycloheptadiene][(1,2,3,4,5-η)-2,4-cycloheptadien-1-yl]iron(1+), Fe-01352
- C₁₅H₂₀Fe**
[(1,2,3,4-η)-1,3-Cyclooctadiene][(1,2,3,4,5,6-η)-methylbenzene]iron, Fe-01353
[(1,2,5,6-η)-1,5-Cyclooctadiene][(1,2,3,4,5,6-η)-methylbenzene]iron, Fe-01354
- C₁₅H₂₀FeO₂P₂**
[(1,2,3,4,5-η)-3,4-Dimethyl-1*H*-phosphol-1-yl]-[(1,2,3,4,5-η)-3,4-dimethyl-1*H*-phosphole-2-carboxylato]iron; Et ester, *in* Fe-01103
- C₁₅H₂₀FeO₃**
Tricarbonyl[(1,2,3,4-η)-1,2-di-*tert*-butyl-1,3-cyclobutadiene]iron, Fe-01355
- C₁₅H₂₁FeN**
1-[(Dimethylamino)methyl]-2-ethylferrocene, Fe-01356
- C₁₅H₂₁FeNS₂**
(Dithiocarboxy)ferrocene; Diethylammonium salt, *in* Fe-00726
- C₁₅H₂₁FeO₃P**
[(Diethoxyphosphinyl)methyl]ferrocene, Fe-01357
- C₁₅H₂₂FeIN**
1-[(Dimethylamino)methyl]-2-methylferrocene; B, MeI, *in* Fe-01261
- C₁₅H₂₂FeOP₂**
[(1,2,3,4,5-η)-3,4-Dimethyl-1*H*-phosphol-1-yl]-[(1,2,3,4,5-η)-α,α,3,4-tetramethyl-1*H*-phosphole-2-methanolato]iron, Fe-01358
- C₁₅H₂₃As₂FeI**
1,1'-Bis(dimethylarsino)ferrocene; B, MeI, *in* Fe-01266
- C₁₅H₂₅FeN₅**
Pentakis(isocyanoethane)iron, Fe-01359
- C₁₅H₂₅FeO₂P**
▷ Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)ferrate(1-); Tetraethylphosphonium salt, *in* Fe-00194
- C₁₅H₂₆FeN₂O**
Carbonyl(1,2,3,4-η)-2,3-dimethyl-1,3-butadiene[*N,N'*-1,2-ethanediylidenebis[2-propanamine]-*N,N'*]iron, Fe-01360
- C₁₅H₃₀FeO₃P₂**
Tricarbonylbis(triethylphosphine)iron, Fe-01361
- C₁₅H₃₀FeO₉P₂**
Tricarbonylbis(triethyl phosphite-*P*)iron, Fe-01362
- C₁₅H₃₅FeO₉P₃**
[(1,2,3,4-η)-1,3-Cyclohexadiene]tris(trimethyl phosphite-*P*)iron, Fe-01363
- C₁₅H₄₁FeO₁₂P₄[⊕]**
(η³-2-Propenyl)tetrakis(trimethyl phosphite-*P*)iron(1+), Fe-01364
- C₁₅H₄₅FeO₆P₅**
Tris(trimethylphosphine)bis(trimethyl phosphite-*P*)iron, Fe-01365
- C₁₅H₄₅FeO₁₅P₅**
Pentakis(trimethyl phosphite-*P*)iron, Fe-01366
- C₁₅H₄₆F₆FeO₁₅P₆**
Hydropentakis(trimethyl phosphite-*P*)iron(1+); Hexafluorophosphate, *in* Fe-01367
- C₁₅H₄₆FeO₁₅P₅[⊕]**
Hydropentakis(trimethyl phosphite-*P*)iron(1+), Fe-01367
- C₁₆F₁₀FeO₄**
Tetracarbonylbis(pentafluorophenyl)iron, Fe-01368
- C₁₆Fe₄GeO₁₆**
Hexadecacarbonyl-μ₄-germanetetrayltetrairon, Fe-01371
- C₁₆Fe₄O₁₆Pb**
Hexadecacarbonyl-μ₄-plumbanetetrayltetrairon, Fe-01369
- C₁₆Fe₄O₁₆Sn**
Hexadecacarbonyl-μ₄-stannanetetrayltetrairon, Fe-01370
- C₁₆Fe₅O₁₅**
(Carbon)pentadecacarbonylpentairon, Fe-01372
- C₁₆H₆Co₂FeO₉**
Tricarbonyl(hexacarbonyldicobalt)hydro[μ₃-(phenylmethylidyne)]iron, Fe-01373
- C₁₆H₉F₅Fe**
(Pentafluorophenyl)ferrocene, Fe-01374
- C₁₆H₁₀AsFeO₄[⊖]**
Tetracarbonyl(diphenylarsino)ferrate(1-), Fe-01375
- C₁₆H₁₀FeLiO₄P**
Tetracarbonyl(diphenylphosphino)ferrate(1-); Li salt, *in* Fe-01376
- C₁₆H₁₀FeO₄P[⊖]**
Tetracarbonyl(diphenylphosphino)ferrate(1-), Fe-01376
- C₁₆H₁₀Fe₂HgO₄S₄**
Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)-(dithiocarboxylato)ferrate(1-); Hg(2+) salt, *in* Fe-00265
- C₁₆H₁₀Fe₂O₆**
Hexacarbonyl[μ-(η⁴:η⁴-1,3-diethenylbenzene)]diiron, Fe-01377
Hexacarbonyl[μ-(η⁴:η⁴-1,4-diethenylbenzene)]diiron, Fe-01378
- C₁₆H₁₁F₉FeO**
[(1,2,3,4,5-η)-6-Acetyl-1,3,5-tris(trifluoromethyl)-2,4-cyclohexadien-1-yl](η⁵-2,4-cyclopentadien-1-yl)iron, Fe-01379
- C₁₆H₁₁FeMnO₅**
(2-Acetylferrocenyl-*C,O*)tetracarbonylmanganese, Fe-01380
Pentacarbonyl(ferrocenylmethyl)manganese, Fe-01381
- C₁₆H₁₁FeO₄P**
Tetracarbonyl(diphenylphosphine)iron, Fe-01382
- C₁₆H₁₂Fe**
[(3*a*,3'*a*,4,4',5,5',6,6',6*a*,6'*a*-η)-[1,1'-Bipentalene]-3*a*,3'*a*,(1*H*,1'*H*)-diyl]iron, Fe-01383
Bis[(3*a*,3'*a*,4,4',5,5',6,6',6*a*,6'*a*-η)-pentalenyl]-ferrate(2-), Fe-01384
- C₁₆H₁₂FeN₂**
1,1'-Bis(2-cyanoethenyl)ferrocene, Fe-01385
- C₁₆H₁₂FeO₂**
Dicarbonyl(η⁵-2,4-cyclopentadien-1-yl)-1*H*-inden-1-yliron, Fe-01386
- C₁₆H₁₂FeO₃**
Tricarbonyl[(1,2,3,4-η)-7-phenyl-1,3,5-cycloheptatriene]iron, Fe-01387
- C₁₆H₁₂FeO₄**
Tricarbonyl[(2,3,4,5-η)-7-phenyl-2,4,6-heptatrienal]-iron, Fe-01388
Tricarbonyl[(4,5,6,7-η)-7-phenyl-2,4,6-heptatrienal]-iron, Fe-01389
- C₁₆H₁₂Fe₂O₅**
[(1,2,3,4,5-η)-1-Acetyl-2,4-cyclopentadien-1-yl]di-μ-carbonyldicarbonyl(η⁵-2,4-cyclopentadien-1-yl)-diiron, Fe-01390
- C₁₆H₁₂Li₂Fe**
Bis[(3*a*,3'*a*,4,4',5,5',6,6',6*a*,6'*a*-η)-pentalenyl]-ferrate(2-); Di-Li salt, *in* Fe-01384
- C₁₆H₁₃AsFe**
1,1'-(Phenylarsinidene)ferrocene, Fe-01391
- C₁₆H₁₃BrFe**
(4-Bromophenyl)ferrocene, Fe-01392
- C₁₆H₁₃ClFe**
(4-Chlorophenyl)ferrocene, Fe-01393

C₁₆H₁₃CoFeO₄

[[$(2,3,5,6-\eta)$ -Bicyclo[2.2.1]hepta-2,5-diene]-carbonylcobalt]di- μ -carbonylcarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01394

C₁₆H₁₃FeNO₂

(4-Nitrophenyl)ferrocene, Fe-01395

C₁₆H₁₃FeP

1,1'-(Phenylphosphinidene)ferrocene, Fe-01396

C₁₆H₁₄Fe

Bis[1*H*-(3*a*,3*a'*,4,4',5,5',6,6',6*a*,6'*a*- η)hydropentalenyl]-iron, Fe-01397
(2,4-Cyclopentadien-1-ylidenemethyl)ferrocene, Fe-01398
Phenylferrocene, Fe-01399

C₁₆H₁₄FeN₂

Phenylazoferrocene, Fe-01400

C₁₆H₁₄FeO

(4-Hydroxyphenyl)ferrocene, Fe-01401
Phenoxyferrocene, Fe-01402

C₁₆H₁₄FeO₂

1,1'-Bis(3-oxo-1-propenyl)ferrocene, Fe-01403
Bis[(1,2,3,3*a*,6*a*- η)-3*a*,4,5,6-tetrahydro-6-oxo-3*a*-pentalenyl]iron, Fe-01404
[3][3](1,3)Ferrocenophane-1,9-dione, Fe-01405

C₁₆H₁₄FeO₂S

(Phenylsulfonyl)ferrocene, *in* Fe-01406

C₁₆H₁₄FeS

(Benzenethiolato)ferrocene, Fe-01406

C₁₆H₁₄FeS₂

Bis[(3*a*,4,5,6,6*a*- η)-5-methyl-3*aH*-cyclopenta[*b*]thien-3*a*-yl]iron, Fe-01407

C₁₆H₁₄Fe₂O₄

Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]diiron, Fe-01408
Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]diiron, Fe-01409
Di- μ -carbonyldicarbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)-diiron, Fe-01410

C₁₆H₁₄Fe₂O₄Si

Di- μ -carbonyldicarbonyl[μ -[(1,2,3,4,5- η):1',2',3',4',5'- η)-(dimethylsilylene)bis(2,4-cyclopentadien-1-ylidene)]]diiron, Fe-01411

C₁₆H₁₅BFe

(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-1-phenylboratabenzene]iron, Fe-01412

C₁₆H₁₅BFeO₃

Tricarbonyl[(2,3,5,6- η)-1,4-dihydro-4,4-dimethyl-1-phenylborin]iron, Fe-01413

C₁₆H₁₅FeN

(4-Aminophenyl)ferrocene, Fe-01414
N-Phenylaminoferrocene, Fe-01415

C₁₆H₁₅FeN₃

(3-Phenyl-1-triazenyl)ferrocene, Fe-01416

C₁₆H₁₆B₂Fe₂O₄

Di- μ -carbonylbis[(1,2,3,4,5,6- η)-1-methylboratabenzene]-diiron, Fe-01417

C₁₆H₁₆Fe

(η^6 -1,3,5,7-Cyclooctatetraene)(η^4 -1,3,5,7-cyclooctatetraene)iron, Fe-01418
(2,4-Cyclopentadien-1-ylmethyl)ferrocene, Fe-01419

C₁₆H₁₆FeN₂

1,1'-Bis(2-cyanoethyl)ferrocene, Fe-01420

C₁₆H₁₆FeO

[3][3](1,3)Ferrocenophan-1-one, Fe-01421

C₁₆H₁₆Fe₂N₂O₂

Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)-bis(isocyanomethane)diiron, Fe-01422

C₁₆H₁₆Fe₂O₃

μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -propylidenediiron, Fe-01423

C₁₆H₁₆Fe₂O₄Pb

Bis[(cyclopentadienyl)dicarbonyliron]dimethyllead, Fe-01424

C₁₆H₁₇FeNO₆S

Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadiene-1-sulfonic acid]iron; 4-Methylanilinum salt, *in* Fe-00412

C₁₆H₁₈Fe

1,1'-Bis(1-methylethenyl)ferrocene, Fe-01425
[3][3](1,2)Ferrocenophane, Fe-01426
[3][3](1,3)Ferrocenophane, Fe-01427

C₁₆H₁₈FeO₂

(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3*a*,7*a*- η)-4,5,6,7-tetrahydro-4-hydroxy-1*H*-inden-1-yl]iron; Ac, *in* Fe-01225

C₁₆H₁₈FeO₄

1,1'-Ferrocenedipropanoic acid, Fe-01428

C₁₆H₁₈Fe₂O₆

Hexacarbonyl[μ -[(3,4- η :3,4- η)-2,2,5,5-tetramethyl-3-hexyne]]diiron, Fe-01429

C₁₆H₁₉BFeINO₂

(1-*tert*-Butyl-3-methyl-2-phenyl-1*H*-1,2-azaborol-3-yl)-*B*²,*N*¹)dicarbonyliodoiron, Fe-01430

C₁₆H₁₉FeNO

[(1,2,3,3*a*,7*a*- η)-4-Amino-4,5,6,7-tetrahydro-1*H*-inden-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron; *N*-Ac, *in* Fe-01236

C₁₆H₁₉FeO⁺

[(1,2,3,4,5- η)-1-Acetyl-2,4-cyclopentadien-1-yl]-[(1,2,3,4,5,6- η)-1,3,5-trimethylbenzene]iron(1+), Fe-01431

C₁₆H₂₀Fe

[(2,3,4,5- η)-Bicyclo[4.2.0]octa-2,4-diene]-[(1,2,3,4,5,6- η)-1,3,5-cyclooctatriene]iron, Fe-01432
Cyclohexylferrocene, Fe-01433
1,1,2,2-Tetramethyl[2]ferrocenophane, Fe-01434

C₁₆H₂₀FeO₂

Ferrocenehexanoic acid, Fe-01435
Ferrocenepentanoic acid; Me ester, *in* Fe-01346

C₁₆H₂₀FeO₂P₂

Bis[1-[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-2-yl]-ethanonato]iron, Fe-01436

C₁₆H₂₀Fe₂N₂O₆

Hexacarbonyl[μ -[η^2 -*N,N'*-1,2-ethanediylidenebis[2-methyl-2-propanamine]-*N,N'*]]diiron, Fe-01437

C₁₆H₂₁B₂FeMnO₃S

Tricarbonyl[(η^5 -2,4-cyclopentadien-1-yl)iron][μ -[(1,2,3,4,5- η :1,2,3,4,5- η)-3,4-diethyl-2,5-dihydro-2,5-dimethyl-1,2,5-thiadiborole]]-manganese, Fe-01438

C₁₆H₂₁Cl₄Fe₂O₃

Tricarbonyl[(1,2,3,4,5- η)-1,2,3,4,5,6,6-heptamethyl-2,4-cyclohexadien-1-yl]iron(1+); Tetrachloroferrate, *in* Fe-01442

C₁₆H₂₁F₆FeP

(η^6 -Benzene)[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron(1+); Hexafluorophosphate, *in* Fe-01440

C₁₆H₂₁Fe

(η^6 -Benzene)[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, Fe-01439
(η^6 -Benzene)[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-01440

C₁₆H₂₁FeN

(1-Piperidinylmethyl)ferrocene, Fe-01441

C₁₆H₂₁FeNOS

(Thiocarboxy)ferrocene; Piperidinium salt, *in* Fe-00710

- C₁₆H₂₁FeO₃[⊕]**
Tricarbonyl[(1,2,3,4,5- η)-1,2,3,4,5,6,6-heptamethyl-2,4-cyclohexadien-1-yl]iron(1+), Fe-01442
- C₁₆H₂₁Fe₂NO₈**
Di- μ -carbonylhexacarbonyl- μ -hydridiferrate(1-); Tetraethylammonium salt, *in* Fe-00246
- C₁₆H₂₂As₂Fe₂O₂**
Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -[(dimethylarsino)]diiron, Fe-01443
- C₁₆H₂₂Fe**
[(1,2,5,6- η)-1,5-Cyclooctadiene][(1,2,3,4,5,6- η)-1,3,5-cyclooctatriene]iron, Fe-01444
1,1'-Diisopropylferrocene, Fe-01445
1,1',2-Triethylferrocene, Fe-01446
1,1',3-Triethylferrocene, Fe-01447
1,2,3-Triethylferrocene, Fe-01448
1,2,4-Triethylferrocene, Fe-01449
- C₁₆H₂₂FeINO**
1-[(Dimethylamino)methyl]-2-(hydroxymethyl)ferrocene; B, MeI, *in* Fe-01264
- C₁₆H₂₂Fe₂Ge₂O₂**
Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(dimethylgermylene)]diiron, Fe-01450
- C₁₆H₂₂Fe₂O₂P₂**
Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(dimethylphosphino)]diiron, Fe-01451
- C₁₆H₂₄F₂FeP₂S₂**
Bis[(2,3,4,5- η)-tetramethylthiophene-S]iron(2+); Bis(hexafluorophosphate), *in* Fe-01456
- C₁₆H₂₄Fe**
▷ Bis[(1,2,5,6- η)-1,5-cyclooctadiene]iron, Fe-01452
- C₁₆H₂₄FeLi₂N₂**
▷ 1,1'-Dilithioferrocene; Tetramethylethylenediamine complex (1:1), *in* Fe-00518
- C₁₆H₂₄FeNP**
1-[1-(Dimethylamino)ethyl]-2-(dimethylphosphino)-ferrocene, Fe-01453
- C₁₆H₂₄FeN₂**
1,1'-Bis[(dimethylamino)methyl]ferrocene, Fe-01454
1,2-Bis[(dimethylamino)methyl]ferrocene, Fe-01455
- C₁₆H₂₄FeS₂^{⊕⊕}**
Bis[(2,3,4,5- η)-tetramethylthiophene-S]iron(2+), Fe-01456
- C₁₆H₂₅F₆FeO₂P₃S₂**
[(Benzylthio)thioxomethyl]-dicarbonylbis(trimethylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-01457
- C₁₆H₂₅FeO₂P₂S₂[⊕]**
[(Benzylthio)thioxomethyl]-dicarbonylbis(trimethylphosphine)iron(1+), Fe-01457
- C₁₆H₂₆As₂FeI₂**
1,1'-Bis(dimethylarsino)ferrocene; B, 2MeI, *in* Fe-01266
- C₁₆H₂₆FeSi₂**
1,1'-Bis(trimethylsilyl)ferrocene, Fe-01458
- C₁₆H₂₆FeSi₃**
1,1'-(1,1,2,2,3,3-Hexamethyl-1,3-trisilanediy)-ferrocene, Fe-01459
- C₁₆H₂₆FeSn₂**
1,1'-Bis(trimethylstannyl)ferrocene, Fe-01460
- C₁₆H₂₇FeO₄P**
Tetracarbonyl(tributylphosphine)iron, Fe-01461
- C₁₆H₂₈FeIP₂**
Bis[(2,3,4,5- η)-1,1,3,4-tetramethyl-1*H*-phospholium]-iron(1+); Iodide, *in* Fe-01462
- C₁₆H₂₈FeP₂[⊕]**
Bis[(2,3,4,5- η)-1,1,3,4-tetramethyl-1*H*-phospholium]-iron(1+), Fe-01462
- C₁₆H₃₀B₁₈Fe[⊖]**
Bis[(7,8,9,10,11- η)-1,2,3,4,5,6,8,9,10,11-decahydro-7-phenyl-7,8-dicarbaundecaborato(2-)]ferrate(1-), Fe-01463
- C₁₆H₃₀FeO₄Pb₂**
Tetracarbonylbis(triethylplumbyl)iron, Fe-01464
- C₁₆H₃₅FeO₉P₃**
[(1,2,3,4- η)-1,3,5-Cycloheptatriene]tris(trimethylphosphite-*P*)iron, Fe-01465
- C₁₆H₃₇FeO₉P₃**
[(1,2,3,4- η)-1,3-Cycloheptadiene]tris(trimethylphosphite-*P*)iron, Fe-01466
- C₁₆H₄₈F₆FeO₁₅P₆**
Methylpentakis(trimethyl phosphite-*P*)iron(1+); Hexafluorophosphate, *in* Fe-01467
- C₁₆H₄₈FeO₁₅P₅[⊕]**
Methylpentakis(trimethyl phosphite-*P*)iron(1+), Fe-01467
- C₁₇Fe₆O₁₆^{⊕⊕}**
[μ_6 -(Carbon)]tri- μ -carbonyltridecacarbonylhexaferrate(2-), Fe-01468
- C₁₇H₆Fe₃O₉**
Nonacarbonyl[μ^3 -[(η^2 : η^4 : η^4)-1,2-ethanediyl-1,2-phenylene]]triiron, Fe-01469
- C₁₇H₈Fe₄O₁₁**
Tri- μ -carbonyloctacarbonylbis[μ_4 -[(1- η :1,2- η :1,2- η :2- η)-1-methyl-1,2- η :ethenediyl]]tetrairon, Fe-01470
- C₁₇H₁₀FeN₂O₃**
Tricarbonylbis(isocyanobenzene)iron, Fe-01471
- C₁₇H₁₀Fe₂N₂O₃**
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(dicyanoethenylidene)]diiron, Fe-01472
- C₁₇H₁₂CrFeO₆**
Pentacarbonyl(ferrocenylmethoxymethylene)chromium, Fe-01473
- C₁₇H₁₂FeO**
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3*a*,8*a*- η)-1,8-dihydro-8-oxocyclopenta[*a*]inden-1-yl]iron, Fe-01474
- C₁₇H₁₂FeO₃**
Tricarbonyl[(1,2,3,8- η)-1-phenyl-1,3,5,7-cyclooctatetraene]iron, Fe-01475
- C₁₇H₁₂FeO₄**
Tricarbonyl(1-benzoyl-1,3,5-cycloheptatriene)iron, Fe-01476
- C₁₇H₁₂Fe₃O₈**
Octacarbonyl[μ_3 -[(η^2 : η^2 : η^4)-5-ethylidene-1,3-dimethyl-1,3-pentadiene-1,5-diyl]]triiron, Fe-01477
- C₁₇H₁₃FeIN₂O₂**
(2,2'-Bipyridine-*N*)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Iodide, *in* Fe-01479
- C₁₇H₁₃FeNO**
2-Benzoxazolylferrocene, Fe-01478
- C₁₇H₁₃FeN₂O₂[⊕]**
(2,2'-Bipyridine-*N*)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-01479
- C₁₇H₁₄FeN₂**
1*H*-Benzimidazol-2-ylferrocene, Fe-01480
- C₁₇H₁₄FeO**
Benzoylferrocene, Fe-01481
(4-Formylphenyl)ferrocene, Fe-01482
- C₁₇H₁₄FeO₂**
Benzoyloxyferrocene, *in* Fe-00567
1-Carboxy-2-phenylferrocene, Fe-01483
4-Ferrocenylbenzoic acid, Fe-01484
3-Phenyl(ferrocenecarboxylic acid), Fe-01485
- C₁₇H₁₄FeS**
(Phenylthioxomethyl)ferrocene, Fe-01486
- C₁₇H₁₄Fe₂O₂**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrocenyliron, Fe-01487
- C₁₇H₁₄Fe₂O₃**
[(η^4 -1,3-Butadienyl)ferrocene]tricarbonyliron, Fe-01488

C₁₇H₁₅BF₄Fe

(η^6 -Benzene)[(1,2,3,4,5- η)-1-phenyl-2,4-cyclopentadien-1-yl]iron(1+); Tetrafluoroborate, *in* Fe-01489
 [(1,2,3,4,5,6- η)-1,1'-Biphenyl](η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-01490
 Ferrocenylphenylmethylum(1+); Tetrafluoroborate, *in* Fe-01491

C₁₇H₁₅ClFeO₄

Ferrocenylphenylmethylum(1+); Perchlorate, *in* Fe-01491

C₁₇H₁₅F₆FeP

Ferrocenylphenylmethylum(1+); Hexafluorophosphate, *in* Fe-01491

C₁₇H₁₅Fe⁺

(η^6 -Benzene)[(1,2,3,4,5- η)-1-phenyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-01489
 [(1,2,3,4,5,6- η)-1,1'-Biphenyl](η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-01490
 Ferrocenylphenylmethylum(1+), Fe-01491

C₁₇H₁₅FeNO

Benzamidoferrocene, *in* Fe-00598
 Benzoylferrocene; Oxime, *in* Fe-01481

C₁₇H₁₆Fe

Benzylferrocene, Fe-01492
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-1-phenyl-2,4-cyclohexadien-1-yl]iron, Fe-01494
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-6-phenyl-2,4-cyclohexadien-1-yl]iron, Fe-01493

C₁₇H₁₆FeO

(Hydroxyphenylmethyl)ferrocene, Fe-01495

C₁₇H₁₆FeO₂S

Ferrocenesulfinic acid; Benzyl ester, *in* Fe-00570
 [(Phenylsulfonyl)methyl]ferrocene, Fe-01496

C₁₇H₁₆Fe₂O₄

μ -1,3-Propanediyltetracarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01497

C₁₇H₁₇FeP

(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-3,4-dimethyl-2-phenyl-1*H*-phosphol-1-yl]iron, Fe-01498

C₁₇H₁₉Fe₂N₃O

Carbonylbis(η^5 -2,4-cyclopentadien-1-yl)-tris(isocyanomethane)diiron, Fe-01499

C₁₇H₂₀BFeN

Dimethylborylferrocene; Py complex, *in* Fe-00952

C₁₇H₂₀F₉FeNO₃

Tricarbonyl[(1,2,3- η)-1,2,3,4,4,5,5,6,6-nonafluoro-2-cyclohexen-1-yl]ferrate(1-); Tetraethylammonium salt, *in* Fe-00332

C₁₇H₂₂Fe

(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-6-methylene-2,4-cyclohexadien-1-yl]iron, Fe-01500

C₁₇H₂₂FeO₂

Ferrocenehexanoic acid; Me ester, *in* Fe-01435
 Ferrocenepentanoic acid; Et ester, *in* Fe-01346

C₁₇H₂₂FeO₆

[(β -D-Glucopyranosyloxy)methyl]ferrocene, Fe-01501

C₁₇H₂₃BF₄Fe

(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-hexamethylbenzene]iron(1+); Tetrafluoroborate, *in* Fe-01503

C₁₇H₂₃Fe

(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-1,2,3,4,5,6-hexamethylbenzene]iron, Fe-01502
 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-hexamethylbenzene]iron(1+), Fe-01503

C₁₇H₂₄Fe

(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-1,2,3,4,5,6-hexamethyl-2,4-cyclohexadien-1-yl]iron, Fe-01504

C₁₇H₂₄FeN₂O₃

Tricarbonyl[*N,N'*-1,2-ethanediyldienebis(cyclohexanamine)-*N,N'*]iron, Fe-01505

C₁₇H₂₇F₁₂FeN₅OP₂

(Acetonitrile)carbonyl(2,3,9,10-tetramethyl-1,4,8,11-tetraazacyclotetradeca-1,3,8,10-tetraene-*N*¹,*N*⁴,*N*⁸,*N*¹¹)iron(2+); Bis(hexafluorophosphate), *in* Fe-01506

C₁₇H₂₇FeN₅O^{⊕⊕}

(Acetonitrile)carbonyl(2,3,9,10-tetramethyl-1,4,8,11-tetraazacyclotetradeca-1,3,8,10-tetraene-*N*¹,*N*⁴,*N*⁸,*N*¹¹)iron(2+), Fe-01506

C₁₇H₃₅FeO₉P₃

[(1,2,3,4- η)-1,3,5,7-Cyclooctatetraene]tris(trimethylphosphite-*P*)iron, Fe-01507

C₁₇H₃₇FeO₉P₃

[(1,2,3,4- η)-1,3,5-Cyclooctatriene]tris(trimethylphosphite-*P*)iron, Fe-01508

C₁₇H₃₉FeO₉P₃

[(1,2,3,4- η)-1,3-Cyclooctadiene]tris(trimethylphosphite-*P*)iron, Fe-01509

C₁₇H₃₉BF₄FeO₉P₃

[(1,2,3- η)-2-Cycloocten-1-yl]tris(trimethylphosphite-*P*)iron(1+); Tetrafluoroborate, *in* Fe-01511

C₁₇H₄₀FeO₉P₃

[(1,2,3- η)-2-Cycloocten-1-yl]tris(trimethylphosphite-*P*)iron, Fe-01510
 [(1,2,3- η)-2-Cycloocten-1-yl]tris(trimethylphosphite-*P*)iron(1+), Fe-01511

C₁₈F₁₀Fe₂O₆S₂

Hexacarbonylbis[μ -(pentafluorobenzenethiolato)]diiron, Fe-01512

C₁₈F₁₀Fe₂O₆Se₂

Hexacarbonylbis[μ -(pentafluorobenzeneselenolato)]diiron, Fe-01513

C₁₈F₁₀Fe₂O₆Te₂

Hexacarbonylbis[μ -(pentafluorobenzenetellurolato)]diiron, Fe-01514

C₁₈H₇Fe₄NO₁₃

μ_3 -Carbonyldodecacarbonylhydrotetraferrate(1-); Pyridinium salt, *in* Fe-00993

C₁₈H₈Fe₂N₂O₆

[μ -(5,6-Dihydrobenzo[*c*]cinnolinato-*N*⁵,*N*⁶:*N*⁵,*N*⁶)]-hexacarbonyldiiron, Fe-01515

C₁₈H₁₀Co₂FeO₆

Hexacarbonyl[μ -[(1,2- η :1,2- η)-ethynyl]ferrocene]]-dicobalt, Fe-01516

C₁₈H₁₀Fe₂N₂O₆

Hexacarbonyl[μ -[1,2-diphenylhydrazinato(2-))]diiron, Fe-01517
 Hexacarbonyl[μ -[*N*-phenyl-1,2-benzenediaminato(2-))]diiron, Fe-01518

C₁₈H₁₀Fe₂N₂O₈

Hexacarbonylbis[μ -[*N*-hydroxybenzenaminato(2-)-*N*:*N*,*O*]]diiron, Fe-01519

C₁₈H₁₀Fe₂O₆

Hexacarbonyl[μ -[(1,2,3,4- η :6,7,8,9- η)-heptalene]]diiron, Fe-01520

C₁₈H₁₀Fe₂O₆S₂

Bis[μ -(benzenethiolato)]hexacarbonyldiiron, Fe-01521

C₁₈H₁₀Fe₂O₆Se₂

Bis[μ -(benzeneselenolato)]hexacarbonyldiiron, Fe-01522

C₁₈H₁₀Fe₂O₆Te₂

Bis[μ -(benzenetellurolato)]hexacarbonyldiiron, Fe-01523

C₁₈H₁₂FeO₄

Tricarbonyl[(*O*,1,2,3- η)-1,3-diphenyl-2-propen-1-one]iron, Fe-01524

- C₁₈H₁₂Fe₂N₂O₆**
Bis(μ -anilinato)hexacarbonyldiiron, Fe-01525
- C₁₈H₁₂Fe₂O₄**
Di- μ -carbonyldicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(1,2,3,3a,7a- η)-1*H*-inden-1-yl]diiron, Fe-01526
- C₁₈H₁₃Cl₂FeN₃O**
[1,3-Bis(4-chlorophenyl)-1-triazenato-*N*¹,*N*³]-carbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01527
- C₁₈H₁₃FeMnO₃**
Tricarbonyl[(1,2,3,4,5- η)-ferrocenyl-2,4-cyclopentadien-1-yl]manganese, Fe-01528
- C₁₈H₁₃FeNO₂**
(1*H*-Isoindole-1,3-dione-2-yl)ferrocene, Fe-01529
- C₁₈H₁₃FeNO₂S**
(2-Carboxy-4-isothiocyanatophenyl)ferrocene, Fe-01530
- C₁₈H₁₃FeNO₃**
Tricarbonyl[η^4 -*N*-(3-phenyl-2-propenylidene)benzenamine]-iron, Fe-01531
- C₁₈H₁₄F₁₂Fe₂O₄P₄**
Tetracarbonyl[μ -[(1,2- η :3,4- η)-1,3-cyclobutadiene]]-bis(η^5 -2,4-cyclopentadien-1-yl)diiron(2+); Bis(hexafluorophosphate), *in* Fe-01545
- C₁₈H₁₄Fe**
Bis[(1,2,3,3a,7a- η)-1*H*-inden-1-yl]iron, Fe-01532
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,4a,9a- η)-9*H*-fluoren-9-yl]iron, Fe-01533
(Phenylethynyl)ferrocene, Fe-01534
- C₁₈H₁₄FeMoO₃**
Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)-ferrocenylmolybdenum, Fe-01535
- C₁₈H₁₄FeMoO₆**
Pentacarbonyl(ethoxyferrocenylmethylene)molybdenum, Fe-01536
- C₁₈H₁₄FeO₂**
Benzoyldicarbonyl[(1,2,3,3a,7a- η)-1*H*-inden-1-yl]iron, Fe-01537
1-Ferrocenyl-2-phenyl-1,2-ethanedione, Fe-01538
- C₁₈H₁₄FeO₂W**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(ferrocenylmethylidyne)tungsten, Fe-01539
- C₁₈H₁₄FeO₃**
2-Ferrocenoylbenzoic acid, Fe-01540
- C₁₈H₁₄FeO₃W**
Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)-ferrocenyltungsten, Fe-01541
- C₁₈H₁₄FeO₄**
Dibenzyltetracarbonyliron, Fe-01542
- C₁₈H₁₄FeO₆W**
Pentacarbonyl(ethoxyferrocenylmethylene)tungsten, Fe-01543
- C₁₈H₁₄Fe₂O₃**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(ferrocenylcarbonyl)iron, Fe-01544
- C₁₈H₁₄Fe₂O₄^{⊕⊕}**
Tetracarbonyl[μ -[(1,2- η :3,4- η)-1,3-cyclobutadiene]]-bis(η^5 -2,4-cyclopentadien-1-yl)diiron(2+), Fe-01545
- C₁₈H₁₄Fe₂O₆**
Bis[(1,2,3,4,5- η)-1-acetyl-2,4-cyclopentadien-1-yl]di- μ -carbonyldicarbonyldiiron, Fe-01546
- C₁₈H₁₄Fe₂O₁₀**
Heptacarbonyl[μ -[(2,6-dimethoxyphenyl)ethoxymethylene]]-diiron, Fe-01547
- C₁₈H₁₅AsFeIN₂O₂**
Iododinitrosyl(triphenylarsine)iron, Fe-01548
- C₁₈H₁₅BrFeN₂O₂P**
Bromodinitrosyl(triphenylphosphine)iron, Fe-01549
- C₁₈H₁₅BrFeN₂O₂Sb**
Bromodinitrosyl(triphenylstibine)iron, Fe-01550
- C₁₈H₁₅ClFeN₂O₂P**
Chlorodinitrosyl(triphenylphosphine)iron, Fe-01551
- C₁₈H₁₅F₆FeOP**
(η^6 -Benzene)[(1,2,3,4,5- η)-1-benzoyl-2,4-cyclopentadien-1-yl]iron(1+); Hexafluorophosphate, *in* Fe-01555
- C₁₈H₁₅F₆FeP**
[(3a,4,5,6,7,7a- η)-1*H*-indene][(1,2,3,3a,7a- η)-1*H*-inden-1-yl]iron(1+); Hexafluorophosphate, *in* Fe-01552
- C₁₈H₁₅Fe[⊕]**
[(3a,4,5,6,7,7a- η)-1*H*-indene][(1,2,3,3a,7a- η)-1*H*-inden-1-yl]iron(1+), Fe-01552
- C₁₈H₁₅FeIN₂O₂P**
Iododinitrosyl(triphenylphosphine)iron, Fe-01553
- C₁₈H₁₅FeIN₂O₂Sb**
Iododinitrosyl(triphenylstibine)iron, Fe-01554
- C₁₈H₁₅FeO[⊕]**
(η^6 -Benzene)[(1,2,3,4,5- η)-1-benzoyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-01555
- C₁₈H₁₆Fe**
(1-Phenylethenyl)ferrocene, Fe-01556
(2-Phenylethenyl)ferrocene, Fe-01557
- C₁₈H₁₆FeO**
(4-Acetylphenyl)ferrocene, Fe-01558
1-Acetyl-1'-phenylferrocene, Fe-01559
1-Acetyl-2-phenylferrocene, Fe-01560
1-Acetyl-3-phenylferrocene, Fe-01561
Benzoylmethylferrocene, Fe-01562
(Phenylacetyl)ferrocene, Fe-01563
- C₁₈H₁₆FeO₂**
4-Carbomethoxyphenylferrocene, *in* Fe-01484
Ferrocenemethanol; Benzoyl, *in* Fe-00752
1-Ferrocenyl-2-hydroxy-2-phenylethanone, Fe-01564
- C₁₈H₁₇FeN**
N,N-(1,1'-Ferrocenediyl)dimethylene)aniline, Fe-01565
- C₁₈H₁₇FeNO**
(4-Aminophenyl)ferrocene; Ac, *in* Fe-01414
- C₁₈H₁₈FeO₂**
1,1'-Bis(3-oxo-1-butenyl)ferrocene, Fe-01566
Bis(4,5,6,7-tetrahydro-4-oxo- π -indenyl)iron, Fe-01567
[4][4](1,3)Ferrocenophane-2,11-dione, Fe-01568
- C₁₈H₁₈FeO₄**
1,1'-Bis(1,3-dioxobutyl)ferrocene, Fe-01569
- C₁₈H₁₈Fe₂O₄**
 μ -1,4-Butanediyltetracarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01570
Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]diiron, Fe-01571
- C₁₈H₁₈Fe₃O₂S₂**
Di- μ -carbonyltris(η^5 -2,4-cyclopentadien-1-yl)[μ_3 -(methanethiolato)]- μ_3 -thioxotriiron, Fe-01572
- C₁₈H₂₀FeO**
[4][4](1,3)Ferrocenophan-1-one, Fe-01573
[4][4](1,3)Ferrocenophan-2-one, Fe-01574
- C₁₈H₂₀FeO₂**
Dicarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]phenyliron, Fe-01575
- C₁₈H₂₂Fe**
[4][4](1,3)Ferrocenophane, Fe-01576
- C₁₈H₂₂FeO₄**
1,1'-Ferrocenedibutanoic acid, Fe-01577
- C₁₈H₂₃BF₄FeO₂**
[(1,2,3,4,5- η)-1-Carboxylato-2,4-cyclopentadien-1-yl]-[(1,2,3,4,5,6- η)-hexamethylbenzene]iron compd. with HBF₄, *in* Fe-01579
- C₁₈H₂₃FeNO₂Pd**
[2-[(Dimethylamino)methyl]ferrocenyl-*C,N*]-[2,4-pentanedionato-*O,O'*]palladium, Fe-01578

- $C_{18}H_{23}FeO_2^{\oplus}$**
(η^5 -Carboxycyclopentadienyl)(η^6 -hexamethylbenzene)-iron(1+), Fe-01579
- $C_{18}H_{24}F_{12}FeP_2$**
Bis[(1,2,3,4,5,6- η)-1,3,5-trimethylbenzene]iron(2+); Bis(hexafluorophosphate), *in* Fe-01580
- $C_{18}H_{24}Fe^{\oplus\oplus}$**
Bis[(1,2,3,4,5,6- η)-1,3,5-trimethylbenzene]iron(2+), Fe-01580
- $C_{18}H_{24}FeO_2$**
Ferrocenehexanoic acid; Et ester, *in* Fe-01435
- $C_{18}H_{26}Fe$**
[(1,2,3,4- η)-1,3-Cyclohexadiene][(1,2,3,4,5,6- η)-hexamethylbenzene]iron, Fe-01581
1,1'-Di-*tert*-butylferrocene, Fe-01582
1,3-Di-*tert*-butylferrocene, Fe-01583
[(1,2,3,4,5,6- η)-1,2,3,4,5,6-Hexamethylbenzene]-[(2,3,4,5- η)-5-methyl-1,3-cyclopentadiene]iron, Fe-01584
1,1',2,2',3,3',4,4'-Octamethylferrocene, Fe-01585
1,1',2,2'-Tetraethylferrocene, Fe-01586
1,1',3,3'-Tetraethylferrocene, Fe-01587
- $C_{18}H_{26}FeO_3$**
Dicarbonyl- η^5 -cyclopentadienyl(menthyloxymethyl)iron, Fe-01588
- $C_{18}H_{28}B_2Fe$**
Bis(1-*tert*-butylborabenzene)iron, Fe-01589
- $C_{18}H_{30}F_8FeO_8P_2$**
Dicarbonyl(octafluorotetramethylene)bis(triethylphosphite)iron, Fe-01590
- $C_{18}H_{54}FeO_{18}P_6^{\oplus\oplus}$**
Hexakis(trimethyl phosphite-*P*)iron(2+), Fe-01591
- $C_{19}H_8Fe_2N_2O_7$**
[μ -(Benzo[*c*]cinnoline-*N*⁵,*N*⁶]- μ -carbonylhexacarbonyldiiron, Fe-01592
- $C_{19}H_{10}Fe_2N_2O_7$**
Hexacarbonyl[μ -[*N,N'*-diphenylureato(2-)-*N,N':N,N'*]-diiron, Fe-01593
- $C_{19}H_{11}Fe_2NO_6$**
Hexacarbonyl[μ -[η^2 : η^4 -1,2-phenylene(2-phenylaminomethylene)]]diiron, Fe-01594
- $C_{19}H_{12}FeO_3$**
Tricarbonyl(1,2-diphenyl-1,3-cyclobutadiene)iron, Fe-01595
- $C_{19}H_{12}FeO_5$**
Tetracarbonyl[(2,3- η)-1,3-diphenyl-2-propen-1-one]-iron, Fe-01596
Tricarbonyl[(*O*,1,2,3- η)-1,4-diphenyl-2-butene-1,4-dione]iron, Fe-01597
- $C_{19}H_{13}FeNO_2$**
(η^1 -9*H*-Carbazol-1-yl)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01598
- $C_{19}H_{13}FeNO_4$**
Tetracarbonyl[*N*-(3-phenyl-2-propenylidene)benzenamine]-iron, Fe-01599
- $C_{19}H_{14}CrFeO_3$**
Tricarbonyl(phenylferrocene)chromium, Fe-01600
- $C_{19}H_{14}FeO_3$**
Tricarbonyl(1,4-diphenyl-1,3-butadiene)iron, Fe-01601
Tricarbonyl(η^4 -2-methylene-1,1-diphenyl-1,3-propanediyl)iron, Fe-01602
- $C_{19}H_{14}FeO_4W$**
Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(ferrocenylcarbonyl)tungsten, Fe-01603
- $C_{19}H_{15}AsFeN_2O_3$**
Carbonyldinitrosyl(triphenylarsine)iron, Fe-01604
- $C_{19}H_{15}AsFeN_3O_2$**
Cyanodinitrosyl(triphenylarsine)iron, Fe-01605
- $C_{19}H_{15}BF_4Fe$**
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,4*a*,10*a*- η)-phenanthrene]iron(1+); Tetrafluoroborate, *in* Fe-01609
- $C_{19}H_{15}BFeO_2$**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-diphenylboraneiron, Fe-01606
- $C_{19}H_{15}BrFeN_2$**
Bromo(η^5 -2,4-cyclopentadien-1-yl)bis(isocyanobenzene)-iron, Fe-01607
- $C_{19}H_{15}F_6FeP$**
[(1,2,3,4,4*a*,9*a*- η)-Anthracene](η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-01608
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,4*a*,10*a*- η)-phenanthrene]iron(1+); Hexafluorophosphate, *in* Fe-01609
- $C_{19}H_{15}Fe^{\oplus}$**
[(1,2,3,4,4*a*,9*a*- η)-Anthracene](η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-01608
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,4*a*,10*a*- η)-phenanthrene]iron(1+), Fe-01609
- $C_{19}H_{15}FeIN_2$**
(η^5 -2,4-Cyclopentadien-1-yl)iodobis(isocyanobenzene)-iron, Fe-01610
- $C_{19}H_{15}FeMnO_3$**
Tricarbonyl[(1,2,3,4,5- η)-1-(ferrocenylmethyl)-2,4-cyclopentadien-1-yl]manganese, Fe-01611
- $C_{19}H_{15}FeN$**
2-Quinolinylferrocene, Fe-01612
- $C_{19}H_{15}FeNO_2$**
Dicarbonyl- π -cyclopentadienyl(diphenylamino)iron, Fe-01613
- $C_{19}H_{15}FeN_2O_3P$**
Carbonyldinitrosyl(triphenylphosphine)iron, Fe-01614
- $C_{19}H_{15}FeN_2O_3Sb$**
Carbonyldinitrosyl(triphenylstibine)iron, Fe-01615
- $C_{19}H_{15}FeN_2O_6P$**
Carbonyldinitrosyl(triphenyl phosphite-*P*)iron, Fe-01616
- $C_{19}H_{15}FeN_3O_2P$**
Cyanodinitrosyl(triphenylphosphine)iron, Fe-01617
- $C_{19}H_{15}FeO_2P$**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(diphenylphosphino)iron, Fe-01618
- $C_{19}H_{15}FeO_2PSe$**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(diphenylphosphinoselenoito-*P*)iron, Fe-01619
- $C_{19}H_{15}FeO_3P$**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(diphenylphosphinito-*P*)iron, Fe-01620
- $C_{19}H_{16}FeN_2O_3$**
Tricarbonyl[*N,N'*-(1,2-dimethyl-1,2-ethanediylidene)-bis[benzenamine]-*N,N'*]iron, Fe-01621
- $C_{19}H_{16}FeO$**
1-Ferrocenyl-3-phenyl-2-propen-1-one, Fe-01622
3-Ferrocenyl-1-phenyl-2-propen-1-one, Fe-01623
- $C_{19}H_{16}FeO_2$**
1-Acetyl-1'-benzoylferrocene, Fe-01624
(1,3-Dioxo-3-phenylpropyl)ferrocene, Fe-01625
- $C_{19}H_{16}Fe_2O_3$**
Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadien-1-yl]-ferrocene]iron, Fe-01626
- $C_{19}H_{17}FeNO$**
1-Ferrocenyl-3-phenyl-2-propen-1-one; Oxime, *in* Fe-01622
- $C_{19}H_{18}Fe_4O_{11}P_2$**
 μ -Carbonyldecacarbonylbis[μ_4 -(1,1-dimethylethyl)-phosphino]tetrairon, Fe-01627
- $C_{19}H_{19}FeNO_2$**
[4-(2-Amino-2-carboxyethyl)phenyl]ferrocene, Fe-01628

- C₁₉H₁₉FeOP**
[(1,2,3,4,5- η)-2-Acetyl-3,4-dimethyl-5-phenyl-1*H*-phosphol-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01629
- C₁₉H₂₀FeOP₂**
[(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl]-[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-2-yl]-phenylmethanonato]iron, Fe-01630
- C₁₉H₂₀Fe₂O₄**
 μ -1,5-Pentanediyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01631
- C₁₉H₂₁FeN**
1-[(Dimethylamino)methyl]-2-phenylferrocene, Fe-01632
- C₁₉H₂₁Fe₃NO₁₁**
 μ -Carbonyldecacarbonyl- μ -hydrotriferrate(1-); Tetraethylammonium salt, *in* Fe-00653
- C₁₉H₂₂Fe**
[3][3][3](1,2,3)Ferrocenophane, Fe-01633
[3][3][3](1,2,4)Ferrocenophane, Fe-01634
- C₁₉H₂₂FeO₂**
Benzylpentamethyl- η^5 -cyclopentadienyldicarbonyliron, Fe-01635
- C₁₉H₂₃Fe₃NO₁₀**
[μ_3 -[(*C*- η :*C*,*O*- η)-Acetyl-*O*]]nonacarbonyltriferrate(1-); Tetraethylammonium salt, *in* Fe-00654
- C₁₉H₂₅Fe⁺**
[(1,2,3,4,5- η)-2,4,6-Cycloheptatrien-1-yl]-[(1,2,3,4,5,6- η)-hexamethylbenzene]iron(1+), Fe-01636
- C₁₉H₂₅FeNO₂Pd**
[2-[1-(Dimethylamino)ethyl]ferrocenyl-*C,N*](2,4-pentanedionato-*O,O'*)palladium, Fe-01637
- C₁₉H₂₆Fe**
[(1,2,3,4- η)-1,3,5-Cycloheptatriene][(1,2,3,4,5,6- η)-hexamethylbenzene]iron, Fe-01638
- C₁₉H₂₆FeO₄**
Dicarbonyl(carboxymethyl)- π -cyclopentadienyliiron menthyl ester, Fe-01639
- C₁₉H₂₈Fe**
1,1',2,2',3,3',4,4',5-Nonamethylferrocene, Fe-01640
- C₁₉H₃₃FeLiN₂**
[(1,2,5,6- η)-1,5-Cyclooctadiene](η^5 -2,4-cyclopentadien-1-yl)ferrate(1-); Li salt, tetramethylethylenediamine complex, *in* Fe-01107
- C₁₉H₄₄B₅FeNO₃**
Tricarbonyl[(1,2,5- η)-octahydropentaborato(3-)-*H*²]-ferrate(1-); Tetrabutylammonium salt, *in* Fe-00025
- C₂₀H₉Co₃FeO₉**
Nonacarbonyl[μ_3 -(ferrocenylmethylidyne)]tricobalt, Fe-01641
- C₂₀H₁₀FeMnO₈P**
Tetracarbonyl[μ -(diphenylphosphino)]-(tetracarbonylmanganio)iron, Fe-01642
- C₂₀H₁₀FeO₆**
Tetracarbonyl(1,4-dioxo-2,3-diphenyl-2-butene-1,4-diyl)-iron, Fe-01643
- C₂₀H₁₀FeO₂₀**
Ferrocenedecarboxylic acid, Fe-01644
- C₂₀H₁₀Fe₂GeO₈**
Octacarbonyl(μ -diphenylgermylene)diiron, Fe-01645
- C₂₀H₁₀Fe₂O₆**
Hexacarbonyl[μ -[η^2 : η^4 -1,2-phenylene(2-phenyl-1,2-ethenediyl)]]diiron, Fe-01646
- C₂₀H₁₀Fe₂O₈**
Bis[μ -(benzylidyneoxy)]hexacarbonyldiiron, Fe-01647
- C₂₀H₁₂FeO₆**
Tetracarbonyl[(2,3- η)-1,4-diphenyl-2-butene-1,4-dione]-iron, Fe-01648
- C₂₀H₁₃FeO₁₂PRu₃**
Di- μ -carbonyloctacarbonyl(dicarbonyliron)di- μ -hydro(dimethylphenylphosphine)triruthenium, Fe-01649
- C₂₀H₁₃Fe₂NO₆**
 μ -(*N*-Benzylidene-4-methylaniline)hexacarbonyldiiron, Fe-01650
- C₂₀H₁₄Fe**
(8*H*-Cyclopent[*a*]acenaphthylenyl)cyclopentadienyliiron, Fe-01651
- C₂₀H₁₄FeO₂S₂**
1,1'-Bis[(2-thienyl)carbonyl]ferrocene, Fe-01652
- C₂₀H₁₄Fe₂O₆S₂**
Bis(benzylthiolato)hexacarbonyldiiron, Fe-01653
- C₂₀H₁₅F₆FeN₂OP**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-bis(isocyanobenzene)iron(1+); Hexafluorophosphate, *in* Fe-01655
- C₂₀H₁₅F₆FeN₂PS**
(Carbonothioyl)(η^5 -2,4-cyclopentadien-1-yl)-bis(isocyanobenzene)iron(1+); Hexafluorophosphate, *in* Fe-01656
- C₂₀H₁₅FeNO₄**
Tricarbonyl[carbonyl(methylimino)][(1,2,3- η)-1,3-diphenyl-2-propene-3,1-diyl]iron, Fe-01654
- C₂₀H₁₅FeN₂O⁺**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-bis(isocyanobenzene)iron(1+), Fe-01655
- C₂₀H₁₅FeN₂S⁺**
(Carbonothioyl)(η^5 -2,4-cyclopentadien-1-yl)-bis(isocyanobenzene)iron(1+), Fe-01656
- C₂₀H₁₆Cu₂Cl₂Fe₂O₄**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-1-propynyliron; CuCl adduct, *in* Fe-00523
- C₂₀H₁₆Fe**
[(1,1',2,2',3,3',4a,4'a,8a,8'a- η)-[6,6'-Biazulene]diyl]-iron, Fe-01657
- C₂₀H₁₆FeN₂**
1,1'-Di-2-pyridinylferrocene, Fe-01658
1,1'-Di(3-pyridinyl)ferrocene, Fe-01659
- C₂₀H₁₆FeO₃**
Tricarbonyl[(1,2,3,5- η)-1,5-diphenyl-2-pentene-1,5-diyl]iron, Fe-01660
- C₂₀H₁₆FeO₃Si**
Tricarbonyl[(2,3,4,5- η)-1,1-diphenylsilacyclohexa-2,4-diene]iron, Fe-01661
- C₂₀H₁₆Fe₂**
1,1'':1',1'''-Biferrocene, Fe-01662
- C₂₀H₁₆Fe₂Si**
1,1',1'',1'''-Silanetetraylbisferrocene, Fe-01663
- C₂₀H₁₈As₂Fe₂O₂**
Ferrocenyloxoarsine, Fe-01664
- C₂₀H₁₈ClFe₂P**
Chlorodiferrocenylphosphine, Fe-01665
- C₂₀H₁₈Fe₂**
1,1''-Biferrocene, Fe-01666
- C₂₀H₁₈Fe₂Hg**
Diferrocenylmercury, Fe-01667
- C₂₀H₁₈Fe₂N₂**
1,1''-Azobisferrocene, Fe-01668
- C₂₀H₁₈Fe₂O₂S**
1,1'-Sulfonyldiferrocene, *in* Fe-01669
- C₂₀H₁₈Fe₂S**
1,1''-Thiobisferrocene, Fe-01669
- C₂₀H₁₈Fe₂S₂**
1,1''-Dithiobisferrocene, Fe-01670

- C₂₀H₁₈Fe₂Se**
1,1''-Selenobisferrocene, Fe-01671
- C₂₀H₁₈Fe₂Se₂**
1,1''-Diselenobisferrocene, Fe-01672
- C₂₀H₁₈Fe₄O₁₂P₂**
Dodecacarbonylbis[μ₄-(1,1-dimethylethyl)phosphino]-tetrairon, Fe-01673
- C₂₀H₁₉BFe₂O**
Diferrocenylhydroxyborane, Fe-01674
- C₂₀H₁₉FeMnO₃**
Dicarbonyl[(1,2,3,4,5-η)-1-methyl-2,4-cyclopentadien-1-yl](ferrocenylmethoxymethylene)manganese, Fe-01675
- C₂₀H₁₉FeNO₂**
2-Amino-3-ferrocenylpropanoic acid; *N*-Benzoyl, *in* Fe-01082
- C₂₀H₁₉Fe₂N**
1,1''-Iminobisferrocene, Fe-01676
- C₂₀H₁₉Fe₂N₃**
1,3-Diferrocenyl-1-triazene, Fe-01677
- C₂₀H₁₉Fe₂P**
Diferrocenylphosphine, Fe-01678
- C₂₀H₂₀BF₄Fe₄S₄**
Tetrakis(η⁵-2,4-cyclopentadien-1-yl)tetra-μ₃-thioxotetrairon(1+); Tetrafluoroborate, *in* Fe-01682
- C₂₀H₂₀BrFe₄S₄**
Tetrakis(η⁵-2,4-cyclopentadien-1-yl)tetra-μ₃-thioxotetrairon(1+); Bromide, *in* Fe-01682
- C₂₀H₂₀Br₃Fe₄S₄**
Tetrakis(η⁵-2,4-cyclopentadien-1-yl)tetra-μ₃-thioxotetrairon(1+); Tribromide, *in* Fe-01682
- C₂₀H₂₀FeN₅O₆P**
2-Ferrocenylcyclic AMP, Fe-01679
- C₂₀H₂₀Fe₂MnNO₁₂**
Tetracarbonyl(di-μ-carbonylhexacarbonyldiferrate)-manganate(1-); Tetraethylammonium salt, *in* Fe-00797
- C₂₀H₂₀Fe₂O₄**
Di-μ-carbonyldicarbonyl[μ-[(1,2,3,4,5-η:1',2',3',4',5'-η)-(1,1,2,2-tetramethyl-1,2-ethanediyl)di-2,4-cyclopentadien-1-ylidene]]diiron, Fe-01680
- C₂₀H₂₀Fe₄I₄S₄**
Tetrakis(η⁵-2,4-cyclopentadien-1-yl)tetra-μ₃-thioxotetrairon(1+); Tetraiodide, *in* Fe-01682
- C₂₀H₂₀Fe₄N₂O₁₂**
Dodecacarbonyl-μ₄-nitridotetraferrate(1-); Tetraethylammonium salt, *in* Fe-00802
- C₂₀H₂₀Fe₄S₄**
Tetrakis(η⁵-2,4-cyclopentadien-1-yl)tetra-μ₃-thioxotetrairon, Fe-01681
Tetrakis(η⁵-2,4-cyclopentadien-1-yl)tetra-μ₃-thioxotetrairon(1+), Fe-01682
- C₂₀H₂₂Fe₂O₄**
μ-1,6-Hexanediyltetracarbonylbis(η⁵-2,4-cyclopentadien-1-yl)diiron, Fe-01683
- C₂₀H₂₄FeN₂**
Bis[(3*a*,4,5,6,6*a*-η)-1,2,3-trimethylcyclopenta[*b*]pyrrol-3*a*(1*H*)-yl]iron, Fe-01684
- C₂₀H₂₆Fe**
[(1,2,3,4-η)-1,3,5,7-Cyclooctatetraene][(1,2,3,4,5,6-η)-hexamethylbenzene]iron, Fe-01685
- C₂₀H₂₆FeO₄**
1,1'-Ferrocenedipentanoic acid, Fe-01686
- C₂₀H₂₆Fe₂O₄Si₂**
Di-μ-carbonyldicarbonylbis[(1,2,3,4,5-η)-1-trimethylsilyl-2,4-cyclopentadien-1-yl]diiron, Fe-01687
- C₂₀H₂₈Cl₂Fe**
1,1'-Bis(5-chloropentyl)ferrocene, Fe-01688
- C₂₀H₂₈FeO**
1-Acetyl-1',2-di-*tert*-butylferrocene, Fe-01689
1-Acetyl-1',3-di-*tert*-butylferrocene, Fe-01690
- C₂₀H₃₀B₂Fe₂N₂O₄**
Di-μ-carbonyldicarbonylbis[(3,4,5-η)-1-(1,1-dimethylethyl)-2,3-dihydro-2-methyl-1*H*-1,2-azaborol-3-yl-*B*²,*N*¹]diiron, Fe-01691
- C₂₀H₃₀Fe**
[(1,2,5,6-η)-1,5-Cyclooctadiene][(1,2,3,4,5,6-η)-hexamethylbenzene]iron, Fe-01692
Decamethylferrocene, Fe-01693
[(1,2,3,4,5,6-η)-Hexamethylbenzene][(1,2,3,4-η)-tetramethyl-1,3-cyclobutadiene]iron, Fe-01694
- C₂₀H₃₆N₄O₈Fe**
Ferrioxamine *H*, Fe-01695
- C₂₀H₄₄B₂FeN₂Si₂**
Bis[(3,4-η)-4,5-diethyl-1,2,2,3-tetramethyl-1-aza-2-sila-5-boracyclopent-3-ene-*B*⁵,*N*¹]iron, Fe-01696
- C₂₀H₄₈B₇FeNO₄**
Tetracarbonyl[η²-dodecahydroheptaborato(1-)]ferrate(1-); Tetrabutylammonium salt, *in* Fe-00058
- C₂₀H₆₄B₂₀FeN₂**
Bis[(7,8,9,10,11,12-η)-dodecahydro-7,9-dicarbododecaborato(2-)]ferrate(2-); Bis(tetraethylammonium) salt, *in* Fe-00062
- C₂₁H₁₀Fe₃N₂O₉**
Bis[μ₃-anilinato(2-)]nonacarbonyltriiron, Fe-01697
- C₂₁H₁₀Fe₃O₉P₂**
Nonacarbonylbis[μ₃-(phenylphosphinylidene)]triiron, Fe-01698
- C₂₁H₁₂FeO₅**
Tricarbonyl(1,2-dibenzoyl-1,3-cyclobutadiene)iron, Fe-01699
- C₂₁H₁₄FeO₃**
Tricarbonyl(2,4-cyclopentadien-1-ylidenediphenylmethane)iron, Fe-01700
- C₂₁H₁₅AuFeNO₄P**
Tricarbonylnitrosyl[(triphenylphosphine)aurio]iron, Fe-01701
- C₂₁H₁₅Br₂FeO₆P**
Dibromotricarbonyl(triphenyl phosphite-*P*)iron, Fe-01702
- C₂₁H₁₅FeGeNO₄**
Tricarbonylnitrosyl(triphenylgermyl)iron, Fe-01703
- C₂₁H₁₅FeI₂O₃P**
Tricarbonyldiiodo(triphenylphosphine)iron, Fe-01704
- C₂₁H₁₅FeI₂O₆P**
Tricarbonyldiiodo(triphenyl phosphite-*P*)iron, Fe-01705
- C₂₁H₁₅FeNO₄Pb**
Tricarbonylnitrosyl(triphenylplumbyl)iron, Fe-01706
- C₂₁H₁₅FeNO₄Sn**
Tricarbonylnitrosyl(triphenylstannyl)iron, Fe-01707
- C₂₁H₁₆FeO₂**
3-Phenyl[5]ferrocenophan-2-ene-1,5-dione, Fe-01708
- C₂₁H₁₆FeO₃**
Tricarbonyl[(1,2,3,4-η)-1,6-diphenyl-1,3,5-hexatriene]iron, Fe-01709
- C₂₁H₁₆Fe₂O₇Si₂**
Hexacarbonyl-μ-carbonylbis-μ-(methylphenylsilanediyl)-diiron, Fe-01710
- C₂₁H₁₇AsFeO₃**
Tricarbonyldihydro(triphenylarsine)iron, Fe-01711
- C₂₁H₁₇FeO₃Sb**
Tricarbonyldihydro(triphenylstibine)iron, Fe-01712
- C₂₁H₁₇FeO₆P**
Tricarbonyldihydro(triphenyl phosphite-*P*)iron, Fe-01713
- C₂₁H₁₈FeOOs**
(Osmocenylcarbonyl)ferrocene, Fe-01714

- C₂₁H₁₈FeORu**
Ferrocenylruthenocylmethanone, Fe-01715
- C₂₁H₁₈FeO₂**
3-Phenyl[5]ferrocenophane-1,5-dione, Fe-01716
- C₂₁H₁₈FeO₃Si**
Tricarbonyl[(2,3,4,5- η)-1,1-dimethyl-2,5-diphenylsilacyclopenta-2,4-diene]iron, Fe-01717
- C₂₁H₁₈Fe₂N₂**
N,N'-Diferrocenylcarbodiimide, Fe-01718
- C₂₁H₁₈Fe₂O**
Diferrocenylmethanone, Fe-01719
- C₂₁H₁₉BF₄Fe₂**
Diferrocenylmethylum(1+); Tetrafluoroborate, *in* Fe-01722
- C₂₁H₁₉ClFe₂O₄**
▷Diferrocenylmethylum(1+); Perchlorate, *in* Fe-01722
- C₂₁H₁₉F₆Fe₂P**
(η^6 -Benzene)[(1,2,3,4,5- η)-1-ferrocenyl-2,4-cyclopentadien-1-yl]iron(1+); Hexafluorophosphate, *in* Fe-01720
Bis(η^5 -2,4-cyclopentadien-1-yl)[μ -(η^5 : η^6 -1-phenyl-2,4-cyclopentadien-1-yl)]diiron(1+); Hexafluorophosphate, *in* Fe-01721
Diferrocenylmethylum(1+); Hexafluorophosphate, *in* Fe-01722
- C₂₁H₁₉Fe₂[⊕]**
(η^6 -Benzene)[(1,2,3,4,5- η)-1-ferrocenyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-01720
Bis(η^5 -2,4-cyclopentadien-1-yl)[μ -(η^5 : η^6 -1-phenyl-2,4-cyclopentadien-1-yl)]diiron(1+), Fe-01721
Diferrocenylmethylum(1+), Fe-01722
- C₂₁H₂₀F₆FeN₂O₂P₂**
Dinitrosyl(η^3 -2-propenyl)(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-01723
- C₂₁H₂₀FeN₂O₂P[⊕]**
Dinitrosyl(η^3 -2-propenyl)(triphenylphosphine)iron(1+), Fe-01723
- C₂₁H₂₀FeOs**
Ferrocenylmethylsmocene, Fe-01724
- C₂₁H₂₀FeRu**
(Ferrocenylmethyl)ruthenocene, Fe-01725
- C₂₁H₂₀Fe₂**
Diferrocenylmethane, Fe-01726
- C₂₁H₂₀Fe₂N₂O**
N,N'-Diferrocenylurea, Fe-01727
- C₂₁H₂₀Fe₂O**
Diferrocenylmethanol, Fe-01728
- C₂₁H₂₂Fe**
3-Phenyl[5]ferrocenophane, Fe-01729
- C₂₁H₂₅FeN₂O₂P**
Dicarbonyl[*N,N'*-(1,2-dimethyl-1,2-ethanediylidene)-bis(benzenamine)-*N,N'*](trimethylphosphine)iron, Fe-01730
- C₂₁H₂₈FeO**
[1.1]Ferrocenophan-6-one, Fe-01731
- C₂₂H₈F₁₀Fe**
1,1'-Bis(pentafluorophenyl)ferrocene, Fe-01732
- C₂₂H₁₀Fe₂O₈**
Octacarbonyl(μ -diphenylvinylidene)diiron, Fe-01733
- C₂₂H₁₄Fe₂O₄**
Di- μ -carbonyldicarbonylbis[(1,2,3,3a,7a- η)-1*H*-inden-1-yl]diiron, Fe-01734
- C₂₂H₁₅AsFeO₄**
Tetracarbonyl(triphenylarsine)iron, Fe-01735
- C₂₂H₁₅FeO₄P**
Tetracarbonyl(triphenylphosphine)iron, Fe-01736
- C₂₂H₁₅FeO₄Sb**
Tetracarbonyl(triphenylstibine)iron, Fe-01737
- C₂₂H₁₅FeO₇P**
Tetracarbonyl(triphenyl phosphite-*P*)iron, Fe-01738
- C₂₂H₁₅Fe₂O₅P**
 μ -Carbonyltetracarbonyl(η^5 -2,4-cyclopentadien-1-yl)[μ -(diphenylphosphino)diiron, Fe-01739
- C₂₂H₁₆FeO₇P[⊖]**
Tricarbonylformyl(triphenyl phosphite-*P*)ferrate(1-), Fe-01740
- C₂₂H₁₆Fe₂O₂**
[1.1]Ferrocenophane-1,12-dione, Fe-01741
- C₂₂H₁₇FeN₂O₃P**
Dicarbonyl(cyanomethyl)nitrosyl(triphenylphosphine)-iron, Fe-01742
- C₂₂H₁₈Fe**
4-Biphenylferrocene, Fe-01743
1,1'-Bis(2,4-cyclopentadien-1-ylidenemethyl)ferrocene, Fe-01744
1,1'-Diphenylferrocene, Fe-01745
1,2-Diphenylferrocene, Fe-01746
1,3-Diphenylferrocene, Fe-01747
- C₂₂H₁₈FeGe**
1,1'-(Diphenylgermylene)ferrocene, Fe-01748
- C₂₂H₁₈FeNO₄P**
Acetyldicarbonylnitrosyl(triphenylphosphine)iron, Fe-01749
- C₂₂H₁₈FeN₄**
1,1'-Bis(phenylazo)ferrocene, Fe-01750
- C₂₂H₁₈FeRu**
(Ruthenocenylethynyl)ferrocene, Fe-01751
- C₂₂H₁₈FeSi**
1,1'-(Diphenylsilylene)ferrocene, Fe-01752
- C₂₂H₁₈Fe₂**
Bis(η^5 -2,4-cyclopentadien-1-yl)[μ -[(1,2,3,3a,8b- η :5a,6,7,8,8a- η)-*as*-indacene]]diiron, Fe-01753
Diferrocenylacetylene, Fe-01754
- C₂₂H₁₈Fe₂O₂**
1,2-Diferrocenyl-1,2-ethanedione, Fe-01755
- C₂₂H₁₈Fe₂O₃**
1'-Ferrocenoyl-1-ferrocenecarboxylic acid, Fe-01756
- C₂₂H₁₉AsFe**
(Diphenylarsino)ferrocene, Fe-01757
- C₂₂H₁₉FeN**
N,N-Diphenylaminoferrocene, Fe-01758
- C₂₂H₁₉FeOP**
(Diphenylphosphinyl)ferrocene, Fe-01759
- C₂₂H₁₉FeP**
Ferrocenyldiphenylphosphine, Fe-01760
- C₂₂H₂₀B₂Fe**
Bis[(1,2,3,4,5,6- η)-1-phenylboratabenzene]iron, Fe-01761
- C₂₂H₂₀FeNO₂P**
Carbonylnitrosyl(η^3 -2-propenyl)(triphenylphosphine)-iron, Fe-01762
- C₂₂H₂₀Fe₂**
1,1-Diferrocenylethylene, Fe-01763
1,2-Diferrocenylethylene, Fe-01764
[1.1]Ferrocenophane, Fe-01765
- C₂₂H₂₀Fe₂O**
1,2-Diferrocenylethanone, Fe-01766
- C₂₂H₂₀Fe₅N₂O₁₄**
 μ -Carbonyltridecacarbonyl- μ_5 -nitridopentaferrate(1-); Tetraethylammonium salt, *in* Fe-01133
- C₂₂H₂₁FeN₄O₂P**
Dicarbonyl(1,4-dimethyl-1,3-tetrazadiene-*N*¹,*N*⁴)-(triphenylphosphine)iron, Fe-01767
- C₂₂H₂₁Fe₂NO₂**
1,1''-Iminobisferrocene; *N*-Ac, *in* Fe-01676
- C₂₂H₂₂F₆FeN₂O₂P₂**
[(1,2,3- η)-2-Butenyl]dinitrosyl(triphenylphosphine)-iron(1+); Hexafluorophosphate, *in* Fe-01769

C₂₂H₂₂F₆FeP

Bis[(1,2,3,3*a*,7*a*- η)-1,3-Dimethyl-1*H*-inden-1-yl]iron(1+); Hexafluorophosphate, *in* Fe-01768

C₂₂H₂₂Fe[⊕]

Bis[(1,2,3,3*a*,7*a*- η)-1,3-Dimethyl-1*H*-inden-1-yl]iron(1+), Fe-01768

C₂₂H₂₂FeN₂O₂P[⊕]

[(1,2,3- η)-2-Butenyl]dinitrosyl(triphenylphosphine)-iron(1+), Fe-01769

C₂₂H₂₂Fe₂

[μ -[(2,3,4,5,6- η :2',3',4',5',6'- η)-[bi-3,5-cyclohexadien-1-yl]-2,2'-diyl]]bis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01770
1,2-Diferrocenylethane, Fe-01771

C₂₂H₂₂Fe₂O

1,1'-Oxybis[methylene]bisferrocene, Fe-01772

C₂₂H₂₂Fe₂O₂

1,2-Diferrocenyl-1,2-ethanediol, Fe-01773

C₂₂H₂₆Fe₂O₈Si₄

[μ -[1,2,4,5-Benzenetetrayltetrakis(dimethylsilylene)]]-octacarbonyldiiron, Fe-01774

C₂₂H₃₀Fe

1,1'-Dicyclohexylferrocene, Fe-01775

C₂₂H₃₂B₄FeMn₂O₆S₂

Hexacarbonylbis[μ -[(1,2,3,4,5- η :1,2,3,4,5- η)-3,4-diethyl-2,5-dihydro-2,5-dimethyl-1,2,5-thiadiborole]](iron)dimanganese, Fe-01776

C₂₂H₃₃F₆FeP

[(1,2,3,4,5,6- η)-Hexamethylbenzene][(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]-iron(1+); Hexafluorophosphate, *in* Fe-01778

C₂₂H₃₃Fe

[(1,2,3,4,5,6- η)-Hexamethylbenzene][(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]-iron, Fe-01777

[(1,2,3,4,5,6- η)-Hexamethylbenzene][(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]-iron(1+), Fe-01778

C₂₂H₃₉FeN₃Ti

Tris(diethylamino)ferrocenyltitanium, Fe-01779

C₂₂H₄₀FeIP₂

Bis[(2,3,4,5- η)-1-*tert*-butyl-1,3,4-trimethyl-1*H*-phospholium]iron(1+); Iodide, *in* Fe-01780

C₂₂H₄₀FeLi₂N₄

▷ 1,1'-Dilithioferrocene; Tetramethylethylenediamine complex (1:2), *in* Fe-00518

C₂₂H₄₀FeP₂[⊕]

Bis[(2,3,4,5- η)-1-*tert*-butyl-1,3,4-trimethyl-1*H*-phospholium]iron(1+), Fe-01780

C₂₂H₄₂FeSi₄

1,1',3,3'-Tetrakis(trimethylsilyl)ferrocene, Fe-01781

C₂₃H₁₀Fe₃O₉

Nonacarbonyl(diphenylacetylene)triiron, Fe-01782

C₂₃H₁₀Fe₄O₁₁P₂

μ -Carbonyldecacarbonylbis(μ_4 -phenylphosphino)tetrairon, Fe-01783

C₂₃H₁₅FeMnN₂O₇P

Dinitrosyl(pentacarbonylmanganio)(triphenylphosphine)-iron, Fe-01784

C₂₃H₁₅FeNO₃

Dicarbonylnitrosyl[(1,2,3- η)-1,2,3-triphenyl-2-cyclopropen-1-yl]iron, Fe-01785

C₂₃H₁₆FeO₃

Tricarbonyl[(1,2,3,4- η)-7-(diphenylmethylene)-1,3,5-cycloheptatriene]iron, Fe-01786

C₂₃H₁₇Fe₄NO₁₃

μ_3 -Carbonyldodecacarbonylhydrotetraferate(1-); Benzyltrimethylammonium salt, *in* Fe-00993

C₂₃H₁₈FeO₃

Tricarbonyl[(1,2,3,4- η)-1,8-diphenyl-1,3,5,7-octatetraene]iron, Fe-01787

Tricarbonyl[(3,4,5,6- η)-1,8-diphenyl-1,3,5,7-octatetraene]iron, Fe-01788

C₂₃H₁₈Fe₂O

1,2-Diferrocenylcyclopropenone, Fe-01789

C₂₃H₁₉BF₄Fe

Ferrocenyldiphenylmethylium(1+); Tetrafluoroborate, *in* Fe-01791

C₂₃H₁₉ClFeNO₃P

Dicarbonyl(2-chloro-2-propenyl)-nitrosyl(triphenylphosphine)iron, Fe-01790

C₂₃H₁₉ClFeO₄

▷ Ferrocenyldiphenylmethylium(1+); Perchlorate, *in* Fe-01791

C₂₃H₁₉Cl₄Fe₂

Ferrocenyldiphenylmethylium(1+); Tetrachloroferrate, *in* Fe-01791

C₂₃H₁₉F₆FeNO₂P₂

Carbonyl(η^4 -1,3-cyclobutadiene)-nitrosyl(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-01792

C₂₃H₁₉F₆FeP

Ferrocenyldiphenylmethylium(1+); Hexafluorophosphate, *in* Fe-01791

C₂₃H₁₉Fe[⊕]

Ferrocenyldiphenylmethylium(1+), Fe-01791

C₂₃H₁₉FeNO

N-Phenylaminoferrocene; Benzoyl, *in* Fe-01415

C₂₃H₁₉FeNO₂P[⊕]

Carbonyl(η^4 -1,3-cyclobutadiene)-nitrosyl(triphenylphosphine)iron(1+), Fe-01792

C₂₃H₁₉FeO₂PS

Dicarbonyl[(*S*,1,2,3- η)-2-propenethial]-(triphenylphosphine)iron, Fe-01793

C₂₃H₁₉FeO₄P

Tetracarbonylhydroferrate(1-); Methyltriphenylphosphonium salt, *in* Fe-00042

C₂₃H₂₀BrFeO₂P

Bromodicarbonyl(η^3 -2-propenyl)(triphenylphosphine)iron, Fe-01794

C₂₃H₂₀F₆FeINO₄P₂

(η^5 -2,4-Cyclopentadien-1-yl)iodonitrosyl(triphenyl phosphite-*P*)iron(1+); Hexafluorophosphate, *in* Fe-01796

C₂₃H₂₀FeINOP

(η^5 -2,4-Cyclopentadien-1-yl)-iodonitrosyl(triphenylphosphine)iron, Fe-01795

C₂₃H₂₀FeINO₄P[⊕]

(η^5 -2,4-Cyclopentadien-1-yl)iodonitrosyl(triphenyl phosphite-*P*)iron(1+), Fe-01796

C₂₃H₂₀FeIO₂P

Dicarbonyliodo(η^3 -2-propenyl)(triphenylphosphine)iron, Fe-01797

C₂₃H₂₀FeO

(Hydroxydiphenylmethyl)ferrocene, Fe-01798

C₂₃H₂₀FeORu

1-Ferrocenyl-3-ruthenocenyl-2-propen-1-one, Fe-01799
3-Ferrocenyl-1-ruthenocenyl-2-propen-1-one, Fe-01800

C₂₃H₂₀Fe₂O

1,3-Diferrocenyl-2-propen-1-one, Fe-01801

C₂₃H₂₀Fe₂O₂

1,3-Diferrocenyl-1,3-propanedione, Fe-01802

C₂₃H₂₁FeOP

[(Diphenylphosphinyl)methyl]ferrocene, *in* Fe-01803

C₂₃H₂₁FeP

[(Diphenylphosphino)methyl]ferrocene, Fe-01803

- C₂₃H₂₂FeNO₂P**
[(1,2,3- η)-2-Butenyl]-carbonylnitrosyl(triphenylphosphine)iron, Fe-01804
Carbonyl[(1,2,3- η)-2-methyl-2-propenyl]-nitrosyl(triphenylphosphine)iron, Fe-01805
- C₂₃H₂₃Fe₄NO₁₄**
Dodecacarbonyl[μ_4 -(methoxyoxoethylidyne)]-tetraferate(1-); Tetraethylammonium salt, *in* Fe-01285
- C₂₃H₂₄FeO₃Si₂**
Tricarbonyl[(3,4,5,6- η)-1,1,2,2-tetramethyl-3,6-diphenyl-1,2-disilacyclohexa-3,5-diene]iron, Fe-01806
- C₂₃H₂₄Fe₂**
1,3-Diferrocenylpropane, Fe-01807
- C₂₃H₂₄Fe₅N₂O₁₄**
(Carbon)tetradecacarbonylpentaferate(2-); Bis(tetramethylammonium) salt, *in* Fe-01284
- C₂₃H₃₆Fe**
(η^4 -1,3-Cyclopentadiene)[(1,2,3,4,5,6- η)-1,2,3,4,5,6-hexaethylbenzene]iron, Fe-01808
- C₂₃H₃₆Fe₂O₇Sn₂**
 μ -Carbonylhexacarbonylbis[μ -(dibutylstannylene)]diiron, Fe-01809
- C₂₃H₃₇FeO₉P₃**
[1,1'-(η^2 -1,2-Ethynediyl)bis(benzene)]tris(trimethylphosphite-*P*)iron, Fe-01810
- C₂₃H₄₁FeNO₂**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-); Tetrabutylammonium salt, *in* Fe-00194
- C₂₄H₁₀Fe₄P₂O₁₂**
Dodecacarbonylbis(μ_4 -phenylphosphino)tetrairon, Fe-01811
- C₂₄H₁₅FeNO₃**
Dicarbonylnitrosyl[(1,2,3- η)-4-oxo-1,2,3-triphenyl-2-cyclobuten-1-yl]iron, Fe-01812
- C₂₄H₁₆Fe₂**
Bis(π_2 -dihydro-*as*-indacenylene)diiron, Fe-01813
[2.2]Ferrocenophane-1,13-diyne, Fe-01814
- C₂₄H₁₆Fe₂O₄**
Di- μ -carbonyldicarbonyl[μ -[(1,2,3,3*a*,8*a*- η :1',2',3',3*a'*,8*a'*- η)-1,1',4,4'-tetrahydro[4,4'-biazulene]-1,1'-diyl]]diiron, Fe-01815
- C₂₄H₁₈FeO₂**
1,1'-Dibenzoylferrocene, Fe-01816
- C₂₄H₁₈FeO₄**
1,1'-Dihydroxyferrocene; Dibenzoyl, *in* Fe-00569
- C₂₄H₁₈Fe₂**
1,4-Diferrocenyl-1,3-butadiyne, Fe-01817
- C₂₄H₁₈Fe₂O₄**
Di- μ -carbonyldicarbonylbis[(1,2,3,3*a*,7*a*- η)-1-methyl-1*H*-inden-1-yl]diiron, Fe-01818
- C₂₄H₂₀AsFeIO**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-iodo(triphenylarsine)iron, Fe-01819
- C₂₄H₂₀AsFeN₂O₂**
Dichlorodinitrosylferrate(1-); Tetraphenylarsonium salt, *in* Fe-02207
- C₂₄H₂₀AsFeN₇O₇S₃**
Heptanitrosyltri- μ_3 -thioxotetraferate(1-); Tetraphenylarsonium salt, *in* Fe-02222
- C₂₄H₂₀As₂Fe₂N₄O₄**
Bis(diphenylarsino)tetranitrosyldiiron, Fe-01820
- C₂₄H₂₀AuFeO₃P**
Tricarbonyl(η^3 -2-propenyl)[(triphenylphosphine)gold]-iron, Fe-01821
- C₂₄H₂₀BrFeOP**
Bromocarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01822
- C₂₄H₂₀BrFeO₄P**
Bromocarbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenylphosphite-*P*)iron, Fe-01823
- C₂₄H₂₀ClFeOP**
Carbonylchloro(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01824
- C₂₄H₂₀ClFeO₄P**
Carbonylchloro(η^5 -2,4-cyclopentadien-1-yl)(triphenylphosphite-*P*)iron, Fe-01825
- C₂₄H₂₀F₆Fe₄O₄P**
Tetra- μ_3 -carbonyltetrakis(η^5 -2,4-cyclopentadien-1-yl)-tetrairon(1+); Hexafluorophosphate, *in* Fe-01839
- C₂₄H₂₀F₁₂Fe₂O₂P₂S₂**
Bis[μ -(benzenethiolato)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron(2+); Bis(hexafluorophosphate), *in* Fe-01832
- C₂₄H₂₀FeIOP**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-iodo(triphenylphosphine)iron, Fe-01826
- C₂₄H₂₀FeIOSb**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-iodo(triphenylstibine)iron, Fe-01827
- C₂₄H₂₀FeIO₄P**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)iodo(triphenylphosphite-*P*)iron, Fe-01828
- C₂₄H₂₀FeN₂O₂**
1,1'-Dibenzoylferrocene; Dioxime, *in* Fe-01816
- C₂₄H₂₀Fe₂N₄O₄P₂**
Bis[μ -(diphenylphosphino)]tetranitrosyldiiron, Fe-01829
- C₂₄H₂₀Fe₂O**
2,5-Diferrocenylfuran, Fe-01830
- C₂₄H₂₀Fe₂O₂S₂[®]**
Bis[μ -(benzenethiolato)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron(1+), Fe-01831
Bis[μ -(benzenethiolato)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron(2+), Fe-01832
Bis[μ -(benzenethiolato)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01833
- C₂₄H₂₀Fe₂O₂Se₂**
Bis[μ -(benzeneselenolato)]dicarbonylbis(η^5 -cyclopentadien-1-yl)diiron, Fe-01834
- C₂₄H₂₀Fe₂O₂Te₂**
Bis[μ -(benzenetelluroolato)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01835
- C₂₄H₂₀Fe₂S**
2,5-Diferrocenylthiophene, Fe-01836
- C₂₄H₂₀Fe₄I₇O₄**
Tetra- μ_3 -carbonyltetrakis(η^5 -2,4-cyclopentadien-1-yl)-tetrairon(1+); Heptaiodide, *in* Fe-01839
- C₂₄H₂₀Fe₄O₄[®]**
Tetra- μ_3 -carbonyltetrakis(η^5 -2,4-cyclopentadien-1-yl)-tetraferate(1-), Fe-01837
Tetra- μ_3 -carbonyltetrakis(η^5 -2,4-cyclopentadien-1-yl)-tetrairon, Fe-01838
Tetra- μ_3 -carbonyltetrakis(η^5 -2,4-cyclopentadien-1-yl)-tetrairon(1+), Fe-01839
- C₂₄H₂₀Fe₄S₈^{®®}**
Tetrakis(benzenethiolato)tetra- μ_3 -thioxotetraferate(2-), Fe-01840
- C₂₄H₂₁FeOP**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-hydro(triphenylphosphine)iron, Fe-01841
- C₂₄H₂₁FeO₂P**
(η^4 -1,3-Butadiene)dicarbonyl(triphenylphosphine)iron, Fe-01842
- C₂₄H₂₁FeO₄P**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)hydro(triphenylphosphite-*P*)iron, Fe-01843

- C₂₄H₂₂Fe**
1,1'-Dibenzylferrocene, Fe-01844
1,3-Dibenzylferrocene, Fe-01845
- C₂₄H₂₂Fe₂**
1,4-Diferrocenyl-1,3-butadiene, Fe-01846
2,3-Diferrocenyl-1,3-butadiene, Fe-01847
- C₂₄H₂₂Fe₂O₂**
1,4-Diferrocenyl-1,4-butanedione, Fe-01848
- C₂₄H₂₄Fe₂**
2,3-Diferrocenyl-2-butene, Fe-01849
1,12-Dimethyl[1.1]ferrocenophane, Fe-01850
- C₂₄H₂₆FeN₄**
Bis(2,2'-bipyridine)diethyliron, Fe-01851
- C₂₄H₂₆Fe₂**
1,4-Diferrocenylbutane, Fe-01852
- C₂₄H₃₀Fe₂O₄**
Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]diiron, Fe-01853
- C₂₄H₃₆Cl₂Fe**
1,1'-Bis(7-chloroheptyl)ferrocene, Fe-01854
- C₂₄H₃₆F₆FeP**
Bis[(1,2,3,4,5,6- η)-hexamethylbenzene]iron(1+); Hexafluorophosphate, *in* Fe-01856
- C₂₄H₃₆F₁₂FeP₂**
Bis[(1,2,3,4,5,6- η)-hexamethylbenzene]iron(2+); Bis(hexafluorophosphate), *in* Fe-01857
- C₂₄H₃₆Fe**
Bis[(1,2,3,4,5,6- η)-hexamethylbenzene]iron, Fe-01855
Bis[(1,2,3,4,5,6- η)-hexamethylbenzene]iron(1+), Fe-01856
Bis[(1,2,3,4,5,6- η)-hexamethylbenzene]iron(2+), Fe-01857
- C₂₄H₃₆Fe₂O₄**
Tetracarbonylbis[μ -(2,2,5,5-tetramethyl-3-hexyne)]-diiron, Fe-01858
- C₂₄H₃₇F₆FeP**
[(1,2,3,4,5,6- η)-Hexamethylbenzene][(1,2,3,4,5,6- η)-1,2,3,4,5,6-hexamethyl-2,4-cyclohexadien-1-yl]-iron(1+); Hexafluorophosphate, *in* Fe-01860
- C₂₄H₃₇Fe**
[(1,2,3,4,5,6- η)-Hexamethylbenzene][(1,2,3,4,5- η)-1,2,3,4,5,6-hexamethyl-2,4-cyclohexadien-1-yl]-iron, Fe-01859
[(1,2,3,4,5,6- η)-Hexamethylbenzene][(1,2,3,4,5,6- η)-1,2,3,4,5,6-hexamethyl-2,4-cyclohexadien-1-yl]-iron(1+), Fe-01860
- C₂₄H₃₈Fe**
[(1,2,3,4,5,6- η)-1,2,3,4,5,6-Hexamethylbenzene]-[(1,2,3,4- η)-1,2,3,4,5,6-hexamethyl-1,3-cyclohexadiene]iron, Fe-01861
- C₂₄H₄₀Fe₂N₂O₈**
Octacarbonyldiferrate(2-); Bis(tetraethylammonium) salt, *in* Fe-00244
- C₂₄H₆₂FeO₁₂P₄**
Dihydrotetrakis(triethyl phosphite-*P*)iron, Fe-01862
- C₂₅H₁₆FeO₄**
Tricarbonyl[(1,2,3,4- η)-2,3,4-triphenyl-1,3-butadien-1-one]iron, Fe-01863
- C₂₅H₁₉FeO₃P**
Dicarbonyl[(2,3,4,5- η)-2,4-cyclopentadien-1-one]-(triphenylphosphine)iron, Fe-01864
- C₂₅H₂₀AsF₆FeOPS**
(Carbonothioyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylarsine)iron(1+); Hexafluorophosphate, *in* Fe-01865
- C₂₅H₂₀AsF₆FeO₂P**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenylarsine)-iron(1+); Hexafluorophosphate, *in* Fe-01866
- C₂₅H₂₀AsFeOS***
(Carbonothioyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylarsine)iron(1+), Fe-01865
- C₂₅H₂₀AsFeO₂***
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenylarsine)-iron(1+), Fe-01866
- C₂₅H₂₀BF₄FeO₂P**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron(1+); Tetrafluoroborate, *in* Fe-01880
- C₂₅H₂₀BF₄FeO₅P**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenyl phosphite-*P*)iron(1+); Tetrafluoroborate, *in* Fe-01885
- C₂₅H₂₀ClFeO₂P**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron(1+); Chloride, *in* Fe-01880
- C₂₅H₂₀ClFeO₆P**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron(1+); Perchlorate, *in* Fe-01880
- C₂₅H₂₀F₃FeOP**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(trifluoromethyl)-(triphenylphosphine)iron, Fe-01867
- C₂₅H₂₀F₆FeOPSSb**
(Carbonothioyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylstibine)iron(1+); Hexafluorophosphate, *in* Fe-01879
- C₂₅H₂₀F₆FeOP₂S**
(Carbonothioyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-01878
- C₂₅H₂₀F₆FeO₂PSb**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylstibine)iron(1+); Hexafluorophosphate, *in* Fe-01882
- C₂₅H₂₀F₆FeO₂P₂**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-01880
- C₂₅H₂₀FeGeO₂**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-triphenylgermyliron, Fe-01868
- C₂₅H₂₀FeIO₂P**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron(1+); Iodide, *in* Fe-01880
- C₂₅H₂₀FeKN₂P**
Bis(cyano-*C*)(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)ferrate(1-); K salt, *in* Fe-01876
- C₂₅H₂₀FeKO₃P**
Carbonylcarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)ferrate(1-); K salt, *in* Fe-01889
- C₂₅H₂₀FeNOP**
Carbonyl(cyano-*C*)(η^5 -2,4-Cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01869
- C₂₅H₂₀FeNOPS**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(thiocyanato-*N*)-(triphenylphosphine)iron, Fe-01870
- C₂₅H₂₀FeNOPSe**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(selenocyanato-*N*)-(triphenylphosphine)iron, Fe-01871
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(selenocyanato-*Se*)-(triphenylphosphine)iron, Fe-01872
- C₂₅H₂₀FeNO₂P**
Carbonyl(cyano-*N*)(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01873
- C₂₅H₂₀FeNO₄P**
Carbonyl(cyano-*C*)(η^5 -2,4-cyclopentadien-1-yl)-(triphenyl phosphite-*P*)iron, Fe-01874
- C₂₅H₂₀FeNO₄PSe**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(selenocyanato-*Se*)-(triphenyl phosphite-*P*)iron, Fe-01875

- C₂₅H₂₀FeN₂P[⊖]**
Bis(cyano-C)(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)ferrate(1-), Fe-01876
- C₂₅H₂₀FeN₃O₂P**
Carbonylnitrosyl(phenylazo)(triphenylphosphine)iron, Fe-01877
- C₂₅H₂₀FeOPS[⊖]**
(Carbonothioyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron(1+), Fe-01878
- C₂₅H₂₀FeOSSb[⊖]**
(Carbonothioyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylstibine)iron(1+), Fe-01879
- C₂₅H₂₀FeO₂P[⊖]**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron(1+), Fe-01880
- C₂₅H₂₀FeO₂Pb**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylplumbyl)iron, Fe-01881
- C₂₅H₂₀FeO₂Sb[⊖]**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylstibine)iron(1+), Fe-01882
- C₂₅H₂₀FeO₂Si**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenylsilyl)-iron, Fe-01883
- C₂₅H₂₀FeO₂Sn**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylstannyl)iron, Fe-01884
- C₂₅H₂₀FeO₅P[⊖]**
Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenyl phosphite-P)iron(1+), Fe-01885
- C₂₅H₂₀Fe₂GeO₃**
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(diphenylgermylene)]diiron, Fe-01886
- C₂₅H₂₀Fe₂O₃Sn**
 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(diphenylstannylene)]diiron, Fe-01887
- C₂₅H₂₁ClFe₂O₅**
2,6-Diferrocenylpyrylium(1+); Perchlorate, *in* Fe-01891
- C₂₅H₂₁FeO₂P**
Dicarbonyl[(1,2,3,4- η)-1,3-cyclopentadiene]-(triphenylphosphine)iron, Fe-01888
- C₂₅H₂₁FeO₃P**
Carbonylcarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)ferrate(1-), Fe-01889
- C₂₅H₂₁Fe₂N**
2,6-Diferrocenylpyridine, Fe-01890
- C₂₅H₂₁Fe₂O[⊖]**
2,6-Diferrocenylpyrylium(1+), Fe-01891
- C₂₅H₂₂AsFeIO**
Carbonyliodo[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](triphenylarsine)iron, Fe-01892
- C₂₅H₂₂BrFeOP**
(Bromomethyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01893
- C₂₅H₂₂BrFeO₄P**
Bromocarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](triphenyl phosphite-P)iron, Fe-01894
- C₂₅H₂₂ClFeOP**
Carbonyl(chloromethyl)(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01895
- C₂₅H₂₂ClFeO₄P**
Carbonylchloro(η^5 -2,4-cyclopentadien-1-yl)(triphenyl phosphite-P)iron, Fe-01896
- C₂₅H₂₂FelOP**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(iodomethyl)-(triphenylphosphine)iron, Fe-01897
- Carbonyliodo[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](triphenylphosphine)iron, Fe-01898
- C₂₅H₂₂FeIO₄P**
Carbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]-iodo(triphenyl phosphite-P)iron, Fe-01899
- Carbonyliodo[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](triphenyl phosphite)iron, Fe-01900
- C₂₅H₂₂Fe₂**
1,2-Diferrocenyl-1,3-cyclopentadiene, Fe-01901
1,4-Diferrocenyl-1,3-cyclopentadiene, Fe-01902
- C₂₅H₂₃FeOP**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-methyl(triphenylphosphine)iron, Fe-01903
- C₂₅H₂₃FeO₃PS**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(methanesulfinato-O)(triphenylphosphine)iron, Fe-01904
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(methylsulfonyl)-(triphenylphosphine)iron, Fe-01905
- C₂₅H₂₃FeO₄P**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)methyl(triphenyl phosphite-P)iron, Fe-01906
Tricarbonyl(1-ethoxyethylidene)(triphenylphosphine)-iron, Fe-01907
- C₂₅H₂₃FeO₇P**
Tricarbonyl(1-ethoxyethylidene)(triphenyl phosphite-P)iron, Fe-01908
- C₂₅H₂₄FeU**
Tris(η^5 -2,4-cyclopentadien-1-yl)ferrocenyluranium, Fe-01909
- C₂₅H₂₄Fe₆N₂O₁₆**
[μ_6 -(Carbon)]tri- μ -carbonyltridecacarbonylhexaferrate(2-); Bis(tetramethylammonium) salt, *in* Fe-01468
- C₂₅H₂₆FeNP**
1-[(Dimethylamino)methyl]-2-(diphenylphosphino)-ferrocene, Fe-01910
- C₂₅H₂₆FeO₂Sm**
[μ -(Carbonyl-C,O)]tris[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl][dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron]samarium, Fe-01911
- C₂₅H₃₀FeN₃O₃P**
[(Diethylamino)ethoxymethylene]-dinitrosyl(triphenylphosphine)iron, Fe-01912
- C₂₅H₃₀FeO₁₀**
[(β -D-Glucopyranosyloxy)methyl]ferrocene; Tetra-Ac, *in* Fe-01501
- C₂₅H₃₄FeN₂O₂**
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3a,7a- η)-4,5,6,7-tetrahydro-4-oxo-1*H*-inden-1-yl]iron; (-)-Menthylhydrazone, *in* Fe-01198
- C₂₅H₃₆FeO**
[15]Ferrocenophan-8-one, Fe-01913
- C₂₅H₄₅FeN₅**
Pentakis(2-isocyano-2-methylpropane)iron, Fe-01914
- C₂₆H₁₀FeO₁₂Ru₃**
Nonacarbonyl[μ_4 -[(1- η :1,2- η :1,2- η :2- η)-1,2-diphenyl-1,2-ethenediyl]](tricarbonyliron)triruthenium, Fe-01915
- C₂₆H₁₈Fe**
1,1'-Bis(phenylethynyl)ferrocene, Fe-01916
- C₂₆H₂₀B₂Fe₂O₄**
Di- μ -carbonyldicarbonylbis[(1,2,3,4,5,6- η)-1-phenylboratabenzene]diiron, Fe-01917
- C₂₆H₂₀ClFeN₃**
(η^5 -2,4-Cyclopentadien-1-yl)tris(isocyanobenzene)-iron(1+); Chloride, *in* Fe-01920
- C₂₆H₂₀F₃FeO₂P**
Carbonyl- π -cyclopentadienyl(trifluoroacetyl)-(triphenylphosphine)iron, Fe-01918
- C₂₆H₂₀F₆FeN₃P**
(η^5 -2,4-Cyclopentadien-1-yl)tris(isocyanobenzene)-iron(1+); Hexafluorophosphate, *in* Fe-01920

- C₂₆H₂₀Fe**
1,4-Diphenyl[4]ferrocenophane-1,3-diene, Fe-01919
- C₂₆H₂₀FeN₃[⊕]**
(η^5 -2,4-Cyclopentadien-1-yl)tris(isocyanobenzene)-iron(1+), Fe-01920
- C₂₆H₂₀Fe₂N₂O₂**
Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(phenylcarbonimidoyl)]diiron, Fe-01921
- C₂₆H₂₁Fe₂OP**
Bis(η^5 -2,4-cyclopentadien-1-yl)[μ -[(1,2,3,3*a*,7*b*- η :4*a*,5,6,7,7*a*- η)-4,4*a*-dihydro-4-phenyl-1*H*-dicyclopenta[*b,d*]phosphole-1,4*a*-diyl]]diiron *P*-oxide, Fe-01922
- C₂₆H₂₂BF₄FeO₂P**
Dicarbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]-(triphenylphosphine)iron(1+); Tetrafluoroborate, *in* Fe-01926
- C₂₆H₂₂Fe**
1,1'-Bis(2-phenylethenyl)ferrocene, Fe-01923
- C₂₆H₂₂FeNOP**
Carbonyl(cyanomethyl)(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01924
- C₂₆H₂₂FeOP[⊕]**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-ethenylidene(triphenylphosphine)iron(1+), Fe-01925
- C₂₆H₂₂FeO₂P[⊕]**
Dicarbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]-(triphenylphosphine)iron(1+), Fe-01926
- C₂₆H₂₂Fe₂**
1,3-Diferrocenylbenzene, Fe-01927
- C₂₆H₂₂O₄Fe**
1,1'-Dihydroxy-3,3'-dimethylferrocene; Benzoyl, *in* Fe-00947
- C₂₆H₂₃F₆NOP₂**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(isocyanomethane)-(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-01928
- C₂₆H₂₃FeNOP[⊕]**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(isocyanomethane)-(triphenylphosphine)iron(1+), Fe-01928
- C₂₆H₂₃FeO₂P**
Dicarbonyl[(1,2,3,4- η)-1,3-cyclohexadiene]-(triphenylphosphine)iron, Fe-01929
- C₂₆H₂₃FeO₃P**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(methoxycarbonyl)-(triphenylphosphine)iron, *in* Fe-01889
Dicarbonyl[(3,4,5,6- η)-3,5-hexadien-2-one]-(triphenylphosphine)iron, Fe-01930
- C₂₆H₂₄BF₄FeOP**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^2 -ethene)-(triphenylphosphine)iron(1+); Tetrafluoroborate, *in* Fe-01934
- C₂₆H₂₄BF₄FeO₂P**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(methoxymethylene)-(triphenylphosphine)iron(1+); Tetrafluoroborate, *in* Fe-01935
- C₂₆H₂₄F₆FeOP₂**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^2 -ethene)-(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-01934
- C₂₆H₂₄F₆FeO₂P₂**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(methoxymethylene)-(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-01935
- C₂₆H₂₄Fe**
1,4-Diphenyl[4]ferrocenophane, Fe-01931
- C₂₆H₂₄FeIOP**
Carbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-iodo(triphenylphosphine)iron, Fe-01932
- C₂₆H₂₄FeN₂O₂P₂**
[1,2-Ethanediy]bis[diphenylphosphine]-*P,P'*-dinitrosyliron, Fe-01933
- C₂₆H₂₄FeN₂O₄**
1,1'-Diaminoferrocene; Bis(benzyloxycarbonyl), *in* Fe-00616
- C₂₆H₂₄FeOP[⊕]**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^2 -ethene)-(triphenylphosphine)iron(1+), Fe-01934
- C₂₆H₂₄FeO₂P[⊕]**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(methoxymethylene)-(triphenylphosphine)iron(1+), Fe-01935
- C₂₆H₂₅FeO₂P**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(methoxymethyl)-(triphenylphosphine)iron, Fe-01936
- C₂₆H₂₇FeNO**
2-[(Dimethylamino)methyl]- α,α -diphenylferrocenemethanol, Fe-01937
- C₂₆H₂₇FeP**
Bis(η^4 -1,3-butadiene)(triphenylphosphine)iron, Fe-01938
- C₂₆H₂₈Cl₂FeNPPd**
1-[1-(Dimethylamino)ethyl]-2-(diphenylphosphino)-ferrocene; PdCl₂ complex, *in* Fe-01939
- C₂₆H₂₈FeNP**
1-[1-(Dimethylamino)ethyl]-2-(diphenylphosphino)-ferrocene, Fe-01939
- C₂₆H₂₈Fe₂**
1,1,12,12-Tetramethyl[1.1]ferrocenophane, Fe-01940
- C₂₆H₃₂Cl₂Fe₂N₂Pd₂**
Di- μ -chlorobis[2-[(dimethylamino)methyl]ferrocenyl-*C,N*]-dipalladium, Fe-01941
- C₂₆H₃₆FeO₄**
[(5,6- η)-3,8-Di-*tert*-butyl-2,2,9,9-tetramethyl-3,4,5,6,7-decapentaene]tetracarbonyliron, Fe-01942
- C₂₆H₄₂B₄Fe₂S₂Zn**
Bis- μ -[(η^5 -2,4-cyclopentadien-1-yl)bis[μ -[(3,4- η :3,4- η)-3,4-diethyl-2,5-dihydro-2,5-dimethyl-1,2,5-thiadiborole-*B*²,*B*⁵,*S*¹:*B*²,*B*⁵,*S*¹]]diiron]zinc, Fe-01943
- C₂₆H₄₂B₄Fe₃S₂**
Bis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -[(3,4- η :3,4- η)-3,4-diethyl-2,5-dihydro-2,5-dimethyl-1,2,5-thiadiborole-*B*²,*B*⁵,*S*¹:*B*²,*B*⁵,*S*¹]]triiron, Fe-01944
- C₂₆H₄₂Fe**
Bis-[(1,2,3,4,5- η)-6-*tert*-butyl-1,3,5-trimethyl-2,4-cyclohexadien-1-yl]iron, Fe-01945
- C₂₇H₂₀FeNO₄P**
Benzoyldicarbonylnitrosyl(triphenylphosphine)iron, Fe-01946
- C₂₇H₂₁FeO₃P**
Dicarbonyl[(2,3,4,5- η)-2,4,6-cycloheptatrien-1-one]-(triphenylphosphine)iron, Fe-01947
- C₂₇H₂₂F₃FeO₄PS**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-ethenylidene(triphenylphosphine)iron(1+); Trifluoromethanesulfonate, *in* Fe-01925
- C₂₇H₂₃BF₄Fe₂**
Diferrocenylphenylmethylum(1+); Tetrafluoroborate, *in* Fe-01950
- C₂₇H₂₃FeO₂P**
Dicarbonyl[(1,2,3,4- η)-1,3,5-cycloheptatriene(triphenylphosphine)iron, Fe-01948
- C₂₇H₂₃FeO₃P**
Dicarbonyl[(2,3,4,5- η)-2,4-cycloheptadien-1-one]-(triphenylphosphine)iron, Fe-01949
- C₂₇H₂₃Fe₂[⊕]**
Diferrocenylphenylmethylum(1+), Fe-01950
- C₂₇H₂₄BF₄FeO₂P**
Dicarbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-(triphenylphosphine)iron(1+); Tetrafluoroborate, *in* Fe-01951

- C₂₇H₂₄F₆FeO₂P₂**
Dicarbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-01951
- C₂₇H₂₄FeO₂P[⊕]**
Dicarbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-(triphenylphosphine)iron(1+), Fe-01951
- C₂₇H₂₄Fe₂**
Diferrocenylphenylmethane, Fe-01952
- C₂₇H₂₅FeO₂P**
Dicarbonyl[(1,2,3,4- η)-1,3-cycloheptadiene]-(triphenylphosphine)iron, Fe-01953
Dicarbonyl[(1,3,4,5- η)-4-cycloheptene-1,3-diyl]-(triphenylphosphine)iron, Fe-01954
- C₂₇H₂₈FeO₃**
Tricarbonyl(1,2-di-*tert*-butyl-3,4-diphenylcyclobutadiene)iron, Fe-01955
- C₂₇H₃₀FeINO**
2-[(Dimethylamino)methyl]- α , α -diphenylferrocenemethanol; B, MeI, *in* Fe-01937
- C₂₇H₄₀Fe₃N₂O₁₁**
Di- μ -3-carbonylnonacarbonyltriferrate(2-); Bis(tetraethylammonium) salt, *in* Fe-00652
- C₂₇H₄₅Fe₂N₉**
Nonakis(ethyl isocyanide)diiron, Fe-01956
- C₂₇H₅₄FeO₃P₂**
Tricarbonylbis(tributylphosphine)iron, Fe-01957
- C₂₈H₁₆Fe**
[(1,2,3,3a,13a,14,15,16,16a,16f- η)-Diindeno(5,4-c,4',5'-g)phenanthrene]iron, Fe-01958
- C₂₈H₂₀Fe₂O₈Sn₂**
Octacarbonylbis[μ -(di-2,4-cyclopentadien-1-ylstannylene)]diiron, Fe-01959
- C₂₈H₂₁FeO₂P**
[(1,6,7,8- η)-Bicyclo[4.2.0]octa-1,3,5,7-tetraene]-dicarbonyl(triphenylphosphine)iron, Fe-01960
- C₂₈H₂₂FeGeO₃**
Tricarbonyl[(1,2,3,4,5- η)-2,4,6-cycloheptatrien-1-yl]-(triphenylgermane)iron, Fe-01961
- C₂₈H₂₂Fe₂O₄**
Di- μ -carbonyldicarbonylbis(benzyl- π -cyclopentadienyl)-diiron, Fe-01962
Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl]diiron, Fe-01963
- C₂₈H₂₃FeO₂P**
Dicarbonyl[(1,2,3,4- η)-1,3,5,7-cyclooctatetraene]-(triphenylphosphine)iron, Fe-01964
- C₂₈H₂₄AuFeP**
1-[(Triphenylphosphine)aurio]ferrocene, Fe-01965
- C₂₈H₂₄BFe**
Ferroceniumyltriphenylborate(1-), Fe-01966
- C₂₈H₂₄FeGe**
(Triphenylgermyl)ferrocene, Fe-01967
- C₂₈H₂₄FePb**
(Triphenylplumbyl)ferrocene, Fe-01968
- C₂₈H₂₄FeSi**
(Triphenylsilyl)ferrocene, Fe-01969
- C₂₈H₂₄Fe₂**
[4.4]Ferrocenophane-2,16-diyne, Fe-01970
- C₂₈H₂₆BF₄FeO₄P**
[(2,3- η)-Butyne]carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenyl phosphite-*P*)iron(1+); Tetrafluoroborate, *in* Fe-01971
- C₂₈H₂₆FeO₄P[⊕]**
[(2,3- η)-Butyne]carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenyl phosphite-*P*)iron(1+), Fe-01971
- C₂₈H₂₈BF₄FeO₂P**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(1-ethoxyethylidene)(triphenylphosphine)iron(1+); Tetrafluoroborate, *in* Fe-01972
- C₂₈H₂₈FeO₂P[⊕]**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(1-ethoxyethylidene)(triphenylphosphine)iron(1+), Fe-01972
- C₂₈H₂₈Fe₂**
[4.4]Ferrocenophane-2,16-diene, Fe-01973
- C₂₈H₃₂Fe₂**
[4.4]-Ferrocenophane, Fe-01974
- C₂₈H₃₄Fe₂O₄**
Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1,2,3,4-tetramethyl-5-(1-methylethenyl)-2,4-cyclopentadien-1-yl]diiron, Fe-01975
- C₂₈H₃₈Fe₂N₂Ti**
Diferrocenylbis(diethylaminato)titanium, Fe-01976
- C₂₈H₄₀As₄Cl₂Fe₂Ru**
Dichlorobis[1,1'-ferrocenediylbis(dimethylarsine)]-ruthenium, Fe-01977
- C₂₈H₄₆Fu**
Nonaethylferrocene, Fe-01978
- C₂₈H₅₈FeSi₆**
1,1',2,2',4,4'-Hexakis(trimethylsilyl)ferrocene, Fe-01979
- C₂₉H₁₅Fe₂O₁₁PRu**
Tricarbonyl(di- μ -carbonylhexacarbonyldiiron)-(triphenylphosphine)ruthenium, Fe-01980
- C₂₉H₁₅Fe₃O₁₁P**
Di- μ -carbonylnonacarbonyl(triphenylphosphine)triiron, Fe-01981
- C₂₉H₁₅Fe₃O₁₁Sb**
Di- μ -carbonylnonacarbonyl(triphenylstibine)triiron, Fe-01982
- C₂₉H₁₅Fe₃O₁₄P**
Undecacarbonyl(triphenyl phosphite)triiron, Fe-01983
- C₂₉H₁₇F₆FeP**
[(1,2,2a,12a,12b,12c- η)-Coronene](η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-01984
- C₂₉H₁₇Fe[⊕]**
[(1,2,2a,12a,12b,12c- η)-Coronene](η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-01984
- C₂₉H₁₈Fe₂N₂O₆**
Hexacarbonyl[μ -[1,3,5-triphenyl-2-pentene-1,5-diiminato(2-)-*N,N'*:*N,N'*]diiron, Fe-01985
- C₂₉H₂₃FeO₃P**
Dicarbonyl[(*O*,1,2,3- η)-3-phenyl-2-propenal]-(triphenylphosphine)iron, Fe-01986
- C₂₉H₂₄As₂FeO₃**
Tricarbonyl[1,2-ethanediylbis(diphenylarsine)-*As,As'*]-iron, Fe-01987
- C₂₉H₂₄Fe**
(Triphenylmethyl)ferrocene, Fe-01988
- C₂₉H₂₄FeO₃P₂**
Tricarbonyl[1,2-ethanediylbis(diphenylphosphine)-*P,P'*]-iron, Fe-01989
- C₂₉H₂₅BF₆**
(η^5 -2,4-Cyclopentadien-1-yl)[(η^6 -phenyl)-triphenylborato(1-)]iron, Fe-01990
- C₂₉H₂₆ClFeP**
Benzylidiphenylferrocenylphosphonium(1+); Chloride, *in* Fe-01994
- C₂₉H₂₆CrFeNO₄P**
Tetracarbonyl[1-[(dimethylamino)methyl]-2-(diphenylphosphino)ferrocene-*N,P*]chromium, Fe-01991

- $C_{29}H_{26}FeIP$**
(Ferrocenylmethyl)triphenylphosphonium(1+); Iodide, *in* Fe-01995
- $C_{29}H_{26}FeMoNO_4P$**
Tetracarbonyl[1-[(dimethylamino)methyl]-2-(diphenylphosphino)ferrocene-*N,P*]molybdenum, Fe-01992
- $C_{29}H_{26}FeNO_4PW$**
Tetracarbonyl[1-[(dimethylamino)methyl]-2-(diphenylphosphino)ferrocene-*N,P*]tungsten, Fe-01993
- $C_{29}H_{26}FeP^{\oplus}$**
Benzylidiphenylferrocenylphosphonium(1+), Fe-01994
(Ferrocenylmethyl)triphenylphosphonium(1+), Fe-01995
- $C_{29}H_{26}Fe_2NO_4P$**
Tetracarbonyl[1-[(dimethylamino)methyl]-2-(diphenylphosphino)ferrocene-*P*]iron, Fe-01996
- $C_{29}H_{40}Br_2Fe_5N_2O_{12}$**
(μ_3 -Dibromoferrio)(μ_5 -carbon)-dodecacarbonyltetraferrate(2-); Bis(tetraethylammonium) salt, *in* Fe-00986
- $C_{29}H_{40}Fe_4N_2O_{12}$**
(Carbon)dodecacarbonyltetraferrate(2-); Bis(tetraethylammonium) salt, *in* Fe-00987
- $C_{29}H_{40}Fe_4N_2O_{13}$**
Tri- μ -carbonyldecacarbonyltetraferrate(2-); Bis(tetraethylammonium) salt, *in* Fe-00989
- $C_{30}As_2F_{20}Fe_2O_6$**
Bis[μ -[bis(pentafluorophenyl)arsino]]-hexacarbonyldiiron, Fe-01997
- $C_{30}F_{20}Fe_2O_6P_2$**
Bis[μ -[bis(pentafluorophenyl)phosphino]]-hexacarbonyldiiron, Fe-01998
- $C_{30}H_{20}F_6FeNO_3P$**
Dicarbonylnitrosyl(tetraphenylcyclobutadiene)iron(1+); Hexafluorophosphate, *in* Fe-01999
- $C_{30}H_{20}FeNO_3^{\oplus}$**
Dicarbonylnitrosyl(tetraphenylcyclobutadiene)iron(1+), Fe-01999
- $C_{30}H_{20}Fe_2O_6P_2$**
Hexacarbonylbis[μ -(diphenylphosphino)]diiron, Fe-02000
- $C_{30}H_{25}AsFeO$**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-phenyl(triphenylarsine)iron, Fe-02001
- $C_{30}H_{25}FeOP$**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-phenyl(triphenylphosphine)iron, Fe-02002
- $C_{30}H_{25}FeO_4P$**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)phenyl(triphenyl phosphite-*P*)iron, Fe-02003
Tricarbonyl(ethoxyphenylmethylene)(triphenylphosphine)-iron, Fe-02004
- $C_{30}H_{25}FeO_7P$**
Tricarbonyl(ethoxyphenylmethylene)(triphenyl phosphite-*P*)iron, Fe-02005
- $C_{30}H_{26}Fe_3$**
1,1'':1''',1''''-Terferrocene, Fe-02006
1,1'':2'',1''''-Terferrocene, Fe-02007
1,1'':3'',1''''-Terferrocene, Fe-02008
- $C_{30}H_{27}BFe_3$**
Triferrocenylboron, Fe-02009
- $C_{30}H_{27}ClFe_3Ge$**
Chlorotriferrocenylgermane, Fe-02010
- $C_{30}H_{27}Fe_3OP$**
Triferrocenylphosphine; Oxide, *in* Fe-02011
- $C_{30}H_{27}Fe_3P$**
Triferrocenylphosphine, Fe-02011
- $C_{30}H_{27}Fe_3PS$**
Triferrocenylphosphine; Sulfide, *in* Fe-02011
- $C_{30}H_{27}Fe_3TI$**
Triferrocenylthallium, Fe-02012
- $C_{30}H_{28}Fe_2Ti$**
Bis(η^5 -2,4-cyclopentadien-1-yl)diferrocenyltitanium, Fe-02013
- $C_{30}H_{28}Fe_3OSi$**
Triferrocenylsilanol, Fe-02014
- $C_{30}H_{30}BFe_3N$**
Triferrocenylboron; NH_3 adduct, *in* Fe-02009
- $C_{30}H_{30}B_3Fe_3N_3$**
2,4,6-Triferrocenylborazine, Fe-02015
- $C_{30}H_{30}FeO_{20}$**
Decakis(methoxycarbonyl)ferrocene, *in* Fe-01644
- $C_{30}H_{34}Fe$**
Bis[(1,2,3,4,5- η)-1,3,5-trimethyl-6-phenyl-2,4-cyclohexadien-1-yl]iron, Fe-02016
- $C_{30}H_{36}FeNO_7P$**
Tricarbonylformyl(triphenyl phosphite-*P*)ferrate(1-); Tetraethylammonium salt, *in* Fe-01740
- $C_{30}H_{40}FeO_4$**
Tricarbonyl(1,3,5-cholestatien-7-one)iron, Fe-02017
- $C_{30}H_{42}FeO_3$**
Tricarbonyl[(1,2,3,4- η)-1,3,5-cholestatiene]iron, Fe-02018
- $C_{30}H_{42}FeO_4$**
Tricarbonyl(1,4-cholestadien-3-one)iron, Fe-02019
- $C_{30}H_{44}FeO_3$**
Tricarbonyl[(1,2,3,4- η)-1,3-cholestadene]iron, Fe-02020
Tricarbonyl[(2,3,4,5- η)-2,4-cholestadene]iron, Fe-02021
- $C_{30}H_{44}FeO_4$**
Tricarbonyl(5,7-cholestadien-3-ol)iron, Fe-02022
- $C_{30}H_{50}Fe$**
Decaethylferrocene, Fe-02023
- $C_{30}H_{75}FeO_{15}P_5$**
Pentakis(triethyl phosphite-*P*)iron, Fe-02024
- $C_{31}H_{20}F_5FeO_2P$**
Dicarbonyl[5-(pentafluorophenyl)-1,3-cyclopentadiene]-(triphenylphosphine)iron, Fe-02025
- $C_{31}H_{20}FeO_3$**
Tricarbonyl(1,2,3,4-tetraphenyl-1,3-cyclobutadiene)-iron, Fe-02026
- $C_{31}H_{20}FeO_5S$**
Tricarbonyl[(2,3,4,5- η)-tetraphenylthiophene 1,1'-dioxide]iron, Fe-02027
- $C_{31}H_{20}Fe_2Ge_2O_7$**
 μ -Carbonylhexacarbonylbis[μ -(diphenylgermylene)]diiron, Fe-02028
- $C_{31}H_{21}BrFeO_2$**
Bromodicarbonyl[(1,2,3,4,5- η)-1,2,3,4-tetraphenyl-2,4-cyclopentadien-1-yl]iron, Fe-02029
- $C_{31}H_{22}FeO_3$**
(1,2,3,4-Tetraphenyl-1,3-butadiene)tricarbonyliron, Fe-02030
- $C_{31}H_{24}F_7FeIO_2P_2$**
Dicarbonyl[ethylenebis(diphenylphosphine)]-(heptafluoropropyl)iodoiron, Fe-02031
- $C_{31}H_{26}F_6FeOP_2$**
Benzylidenecarbonyl(η^5 -cyclopentadienyl)-(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-02032
- $C_{31}H_{26}FeOP^{\oplus}$**
Benzylidenecarbonyl(η^5 -cyclopentadienyl)-(triphenylphosphine)iron(1+), Fe-02032
- $C_{31}H_{27}ClFe_3O_4$**
▷Triferrocenylmethylum(1+); Perchlorate, *in* Fe-02036
- $C_{31}H_{27}F_6FeOP_3$**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-[methylenebis(diphenylphosphine)-*P,P'*]iron(1+); Hexafluorophosphate, *in* Fe-02035

- C₃₁H₂₇FeIOP**
Carbonyliodo[(1,2,3,4,5- η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl](triphenylphosphine)iron, Fe-02033
- C₃₁H₂₇FeOP**
Benzylcarbonyl- π -cyclopentadienyl(triphenylphosphine)-iron, Fe-02034
- C₃₁H₂₇FeOP₂[⊕]**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-[methylenebis(diphenylphosphine)-*P,P'*]iron(1+), Fe-02035
- C₃₁H₂₇Fe₃[⊕]**
Triferrocenylmethylum(1+), Fe-02036
- C₃₁H₂₈BFeNO₂**
Amminedicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetraphenylborate, *in* Fe-00220
- C₃₁H₂₈Cl₂Fe₃**
Triferrocenylmethylum(1+); Hydrodichloride, *in* Fe-02036
- C₃₁H₂₈FeOP₂**
Carbonyl(η^4 -1,3-cyclobutadiene)[1,2-ethanediylbis(diphenylphosphine)-*P,P'*]iron, Fe-02037
- C₃₁H₂₈Fe₃O**
Triferrocenylmethanol, Fe-02038
- C₃₁H₂₉BrF₆FeP₃**
Bromo(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-*P,P'*]iron(1+); Hexafluorophosphate, *in* Fe-02041
- C₃₁H₂₉BrFeMgP₂**
(Bromomagnesium)(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-*P,P'*]iron, Fe-02039
- C₃₁H₂₉BrFeP₂**
Bromo(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-*P,P'*]iron, Fe-02040
Bromo(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-*P,P'*]iron(1+), Fe-02041
- C₃₁H₂₉ClF₆FeP₃**
Chloro(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-*P,P'*]iron(1+); Hexafluorophosphate, *in* Fe-02043
- C₃₁H₂₉ClFeP₂**
Chloro(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-*P,P'*]iron, Fe-02042
Chloro(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-*P,P'*]iron(1+), Fe-02043
- C₃₁H₃₀FeP₂**
(η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-*P,P'*]hydroiron, Fe-02044
- C₃₁H₄₀Fe₅N₂O₁₄**
(Carbon)tetradecacarbonylpentaferrate(2-); Bis(tetraethylammonium) salt, *in* Fe-01284
- C₃₁H₄₂FeO₄**
(Calciferone)tricarbonyliron, *in* Fe-02045
Tricarbonyl[(5,6,7,8- η)-5,7,22*E*-ergostatrien-3-one]-iron, *in* Fe-02048
- C₃₁H₄₄FeO₄**
(Calciferol)tricarbonyliron, Fe-02045
Tricarbonyl(precalciferol₂)iron, Fe-02046
Tricarbonyl(tachysterol₂)iron, Fe-02047
- C₃₁H₄₆FeO₄**
Tricarbonyl[(5,6,7,8- η)-5,7,22-ergostatrien-3-ol]iron, Fe-02048
- C₃₂H₂₀FeO₄**
Tetracarbonyl(tetraphenylbutatriene)iron, Fe-02049
Tricarbonyl[(2,3,4,5- η)-2,3,4,5-tetraphenyl-2,4-cyclopentadien-1-one]iron, Fe-02050
- C₃₂H₂₀Fe₂**
Bis[μ -[(1,2,3,3*a*,10*c*- η :7*a*,8,9,10,10*a*- η)-dicyclopenta[*a,h*]naphthalene]]diiron, Fe-02051
- C₃₂H₂₀Fe₂Ge₂O₈**
Octacarbonylbis[μ -(diphenylgermylene)]diiron, Fe-02052
- C₃₂H₂₀Fe₂N₂O₆**
Hexacarbonylbis[μ -(1,1-diphenylmethyleniminato)]diiron, Fe-02053
- C₃₂H₂₀Fe₂O₈Pb₂**
Octacarbonylbis[μ -(diphenylplumbylene)]diiron, Fe-02054
- C₃₂H₂₀Fe₂O₈Si₂**
Octacarbonylbis[μ -(diphenylsilylene)]diiron, Fe-02055
- C₃₂H₂₀Fe₂O₈Sn₂**
Octacarbonylbis[μ -(diphenylstannylene)]diiron, Fe-02056
- C₃₂H₂₁FeO₄[⊕]**
Tricarbonyl[(1,2,3,4,5- η)-1-hydroxy-2,3,4,5-tetraphenyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-02057
- C₃₂H₂₂Fe₂N₄O₆**
Bis(μ -benzophenone hydrazone)hexacarbonyldiiron, Fe-02058
- C₃₂H₂₃FFeGeO₃**
Tricarbonyl[(2,3,4,5- η)-1-fluoro-1-methyl-2,3,4,5-tetraphenyl-1*H*-germole]iron, Fe-02059
- C₃₂H₂₃F₆FeGeO₃P**
Tricarbonyl[(1,2,3,4,5- η)-1-methyl-2,3,4,5-tetraphenyl-1*H*-germol-1-yl]iron(1+); Hexafluoroantimonate, *in* Fe-02060
- C₃₂H₂₃FeGeO₃[⊕]**
Tricarbonyl[(1,2,3,4,5- η)-1-methyl-2,3,4,5-tetraphenyl-1*H*-germol-1-yl]iron(1+), Fe-02060
- C₃₂H₂₄FeGeO₃**
Tricarbonyl[(2,3,4,5- η)-1-methyl-2,3,4,5-tetraphenyl-1*H*-germole]iron, Fe-02061
- C₃₂H₂₄FeO₃Si**
Tricarbonyl[(2,3,4,5- η)-1-methyl-2,3,4,5-tetraphenylsilacyclopenta-2,4-diene]iron, Fe-02062
- C₃₂H₂₄FeP₂**
Bis[(1,2,3,4,5- η)-2,5-diphenyl-1*H*-phosphol-1-yl]iron, Fe-02063
- C₃₂H₂₅BFeO₂S**
(Carbonothioyl)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-iron(1+); Tetraphenylborate, *in* Fe-00264
- C₃₂H₂₅BFeO₃**
Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetraphenylborate, *in* Fe-00266
- C₃₂H₂₅FeOP**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(phenylethynyl)-(triphenylphosphine)iron, Fe-02064
- C₃₂H₂₆FeO₄Si₂**
Tetracarbonyl[(1,2-dimethyl-1,2-ethenediyl)-bis(diphenylsilylene)]iron, Fe-02065
- C₃₂H₂₈CrFe₂**
Bis[(η^6 -phenyl)ferrocene]chromium, Fe-02066
Bis[(η^6 -phenyl)ferrocene]chromium(1+), Fe-02067
- C₃₂H₂₈CrFe₂I**
Bis[(η^6 -phenyl)ferrocene]chromium(1+); Iodide, *in* Fe-02067
- C₃₂H₂₉BF₄FeOP₂**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-*P,P'*]iron(1+); Tetrafluoroborate, *in* Fe-02069
- C₃₂H₂₉F₆FeOP₃**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-*P,P'*]iron(1+); Hexafluorophosphate, *in* Fe-02069
- C₃₂H₂₉FeOP**
Carbonylmethyl[(1,2,3,4,5- η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl](triphenylphosphine)iron, Fe-02068

C₃₂H₂₉FeOP₂[⊕]

Carbonyl(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediylbis[diphenylphosphine]-*P,P'*]iron(1+), Fe-02069

C₃₂H₃₀FeO₂P₂

Carbonyl(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediylbis[diphenylphosphine]-*P,P'*]iron(1+); Hydroxide, *in* Fe-02069

C₃₂H₃₁FeP₂[⊕]

(η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis[diphenylphosphine]-*P,P'*]-methyleneiron(1+), Fe-02070

C₃₂H₃₂FeP₂

(η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis[diphenylphosphine]-*P,P'*]methyliron, Fe-02071

C₃₂H₃₃BF₄FeGeO₃

Tricarbonyl[(1,2,3,4,5- η)-1-methyl-2,3,4,5-tetraphenyl-1*H*-germol-1-yl]iron(1+); Tetrafluoroborate, *in* Fe-02060

C₃₂H₃₃BFeOP₂

Carbonyl(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediylbis[diphenylphosphine]-*P,P'*]iron(1+); Tetrahydroborate, *in* Fe-02069

C₃₂H₃₈B₂Fe₂N₂O₄

Di- μ -carbonyldicarbonylbis[(3,4,5- η)-1-(1,1-dimethylethyl)-2,3-dihydro-3-methyl-2-phenyl-1*H*-1,2-azaborol-3-yl-*B*²,*N*¹]diiron, Fe-02072

C₃₂H₄₂Fe₂

Bis[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl][μ -[(1,2,3,4,5- η :1',2',3',4',5'- η)[bi-2,4-cyclohexadien-1-yl]-6,6'-diyl]]diiron, Fe-02073

C₃₃H₁₅Fe₅O₁₄P

(Carbon)tetradecacarbonyl(triphenylphosphine)pentairon, Fe-02074

C₃₃H₂₅AsFe

(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-2,3,4,5-tetraphenyl-1*H*-arsol-1-yl]iron, Fe-02075

C₃₃H₂₅FeP

(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-2,3,4,5-tetraphenyl-1*H*-phosphol-1-yl]iron, Fe-02076

C₃₃H₂₆FeGeO₃

Tricarbonyl[(2,3,4,5- η)-1,1-dimethyl-2,3,4,5-tetraphenyl-1*H*-germole]iron, Fe-02077

C₃₃H₂₆FeO₃Si

Tricarbonyl[(2,3,4,5- η)-1,1-dimethyl-2,3,4,5-tetraphenylsilacyclopenta-2,4-diene]iron, Fe-02078

C₃₃H₂₇BF₄Fe₃

Triferrocenylcyclopropenylium(1+); Tetrafluoroborate, *in* Fe-02079

C₃₃H₂₇BFeO₃

Tricarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]iron(1+); Tetraphenylborate, *in* Fe-00376

C₃₃H₂₇ClFe₃O₄

▷ Triferrocenylcyclopropenylium(1+); Perchlorate, *in* Fe-02079

C₃₃H₂₇Fe₃[⊕]

Triferrocenylcyclopropenylium(1+), Fe-02079

C₃₃H₂₈AsFeNO₂

Acetylcarbonyl(cyano-*C*)(η^5 -2,4-cyclopentadien-1-yl)-ferrate(1-); Tetraphenylarsonium salt, *in* Fe-00378

C₃₃H₂₈Fe₃

1,2,3-Triferrocenylcyclopropene, Fe-02080

C₃₃H₂₉FeO₂P

Acetylcarbonyl[(1,2,3,4,5- η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl](triphenylphosphine)iron, Fe-02081

C₃₃H₃₀Fe₃

[1.1.1]Ferrocenophane, Fe-02082

C₃₃H₃₁F₆FeP₃

(η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis[diphenylphosphine]-*P,P'*]-ethenylideneiron(1+); Hexafluorophosphate, *in* Fe-02083

C₃₃H₃₁FeP₂[⊕]

(η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis[diphenylphosphine]-*P,P'*]-ethenylideneiron(1+), Fe-02083

C₃₃H₃₂BrFeNP₂

(Acetonitrile)(η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis[diphenylphosphine]-*P,P'*]iron(1+); Bromide, *in* Fe-02084

C₃₃H₃₂FeNP₂[⊕]

(Acetonitrile)(η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis[diphenylphosphine]-*P,P'*]iron(1+), Fe-02084

C₃₃H₃₄FeOP₂[⊕]

(η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis[diphenylphosphine]-*P,P'*]-1-(methoxymethyl)iron, Fe-02085

C₃₃H₃₆ClFeNO₄PRh

[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene][1-[1-(dimethylamino)ethyl]-2-diphenylphosphino]-ferrocene-*N,P*]rhodium(1+); Perchlorate, *in* Fe-02086

C₃₃H₃₆F₆FeNP₂Rh

[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene][1-[1-(dimethylamino)ethyl]-2-diphenylphosphino]-ferrocene-*N,P*]rhodium(1+); Hexafluorophosphate, *in* Fe-02086

C₃₃H₃₆FeNPRh[⊕]

[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene][1-[1-(dimethylamino)ethyl]-2-diphenylphosphino]-ferrocene-*N,P*]rhodium(1+), Fe-02086

C₃₃H₄₀Fe₆N₂O₁₆

[μ_6 -(Carbon)]tri- μ -carbonyltridecacarbonylhexaferrate(2-); Bis(tetraethylammonium) salt, *in* Fe-01468

C₃₃H₄₆FeO₅

Tricarbonyl[(5,6,7,8- η)-5,7,22-ergostatrien-3-ol]iron; Ac, *in* Fe-02048

C₃₄H₂₀Fe₂O₆

Hexacarbonyl[μ -[(1,2,3,4- η :1,4- η)-1,2,3,4-tetraphenyl-1,3-butadiene-1,4-diyl]]diiron, Fe-02087
Hexacarbonyl(tetraphenylbutatriene)diiron, Fe-02088

C₃₄H₂₆Fe

1,1',3,3'-Tetraphenylferrocene, Fe-02089

C₃₄H₂₇AsFeO₃

Tricarbonyl[(1,2,3- η)-2,4,6-cycloheptatrien-1-yl]-ferrate(1-); Tetraphenylarsonium salt, *in* Fe-00504

C₃₄H₂₈AsFeP

1-(Diphenylarsino)-1'-(diphenylphosphino)ferrocene, Fe-02090

C₃₄H₂₈As₂Fe

1,1'-Bis(diphenylarsino)ferrocene, Fe-02091

C₃₄H₂₈As₂FeS₂

1,1'-Bis(diphenylarsino)ferrocene; Bis-sulfide, *in* Fe-02091

C₃₄H₂₈Cl₂FeP₂Pd

[1,1'-Bis(diphenylphosphino)ferrocene-*P,P'*]-dichloropalladium, Fe-02092

C₃₄H₂₈FeP₂

1,1'-Bis(diphenylphosphino)ferrocene, Fe-02093

C₃₄H₂₈Fe₂

1,2-Diferrocenyl-1,2-diphenylethylene, Fe-02094

C₃₄H₃₂FeP₂

(η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis[diphenylphosphine]-*P,P'*]-1-propynyliron, Fe-02095

C₃₄H₃₄BFeO₅P

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(trimethylphosphite-*P*)iron(1+); Tetraphenylborate, *in* Fe-00636

C₃₄H₄₀BF₄FeNPRh

[(1,2,5,6- η)-1,5-Cyclooctadiene][1-[1-(dimethylamino)-ethyl]-2-(diphenylphosphino)ferrocene-*N,P*]-rhodium(1+); Tetrafluoroborate, *in* Fe-02096

C₃₄H₄₀ClFeNO₄PRh

[(1,2,5,6- η)-1,5-Cyclooctadiene][1-[1-(dimethylamino)-ethyl]-2-(diphenylphosphino)ferrocene-*N,P*]-rhodium(1+); Perchlorate, *in* Fe-02096

C₃₄H₄₀FeNPRh[⊕]

[(1,2,5,6- η)-1,5-Cyclooctadiene][1-[1-(dimethylamino)-ethyl]-2-(diphenylphosphino)ferrocene-*N,P*]-rhodium(1+), Fe-02096

C₃₄H₅₀FeO₂

Dicarbonyl-5-cholesten-3-yl(η^5 -2,4-cyclopentadien-1-yl)-iron, Fe-02097

C₃₄H₆₈FeN₆Ti₂

Hexakis(diethylamino)- μ -1,1'-ferrocenediyltitanium, Fe-02098

C₃₅H₂₀Fe₂O₇

Hexacarbonyl[μ -[(1,2,5- η :1,4,5- η)-3-oxo-1,2,4,5-tetraphenyl-1,4-pentadiene-1,5-diyl]]diiron, Fe-02099

C₃₅H₂₀Fe₃N₄O₉

Bis[μ_3 -[benzophenone hydrazone(2-)]]-nonacarbonyltriiron, Fe-02100

C₃₅H₂₅AsFeO₂

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,3,4,5-tetraphenyl-1*H*-arsol-1-yl)iron, Fe-02101

C₃₅H₂₅FeO₂P

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,3,4,5-tetraphenyl-1*H*-phosphol-1-yl)iron, Fe-02102

C₃₅H₂₅FeO₂Sb

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,3,4,5-tetraphenyl-1*H*-stibol-1-yl)iron, Fe-02103

C₃₅H₂₅FeO₃P

Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,3,4,5-tetraphenyl-1*H*-phosphol-1-yl)iron; *P*-oxide, *in* Fe-02102

C₃₅H₃₁BFe

(η^6 -Benzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetraphenylborate, *in* Fe-00734

C₃₅H₃₅FFeO₃P₂S

(η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanedylbis[diphenylphosphine]-*P,P'*](2-methyl-1-propenylidene)iron(1+); Fluorosulfate, *in* Fe-02104

C₃₅H₃₅F₆FeP₃

(η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanedylbis[diphenylphosphine]-*P,P'*](2-methyl-1-propenylidene)iron(1+); Hexafluorophosphate, *in* Fe-02104

C₃₅H₃₅FeP₂[⊕]

(η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanedylbis[diphenylphosphine]-*P,P'*](2-methyl-1-propenylidene)iron(1+), Fe-02104

C₃₅H₃₉FeO₃P

Carboxylcarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)ferrate(1-); Menthyl ester, *in* Fe-01889

C₃₅H₄₁FeO₂P

Carboxyl- η^5 -cyclopentadienyl(menthyloxymethyl)-(triphenylphosphine)iron, Fe-02105

C₃₆H₂₀Fe₃O₈

Di- μ -carbonylhexacarbonyl(1,2,3,4-tetraphenyl-1,3-butadiene-1,4-diyl)triiron, Fe-02106
Octacarbonylbis[1,1'-(1,2-ethanedyl)bis[benzene]]-triiron, Fe-02107

C₃₆H₃₀As₂FeN₂O₂

Dinitrosylbis(triphenylarsine)iron, Fe-02108

C₃₆H₃₀BFeN

(η^6 -Benzene)[(1,2,3,4,5- η)-1-cyano-2,4-cyclopentadien-1-yl]iron(1+); Tetraphenylborate, *in* Fe-00844

C₃₆H₃₀Br₂FeP₂

Dibromobis(triphenylphosphine)iron, Fe-02109

C₃₆H₃₀Cl₂FeN₃O₂P₂

Dichlorodinitrosylferrate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-02207

C₃₆H₃₀Cl₂FeP₂

Dichlorobis(triphenylphosphine)iron, Fe-02110

C₃₆H₃₀FeI₂P₂

Diiodobis(triphenylphosphine)iron, Fe-02111

C₃₆H₃₀FeN₂O₂P₂

Dinitrosylbis(triphenylphosphine)iron, Fe-02112

C₃₆H₃₀FeN₂O₈P₂

Dinitrosylbis(triphenyl phosphite-*P*)iron, Fe-02113

C₃₆H₃₀Fe₂O₂P₂

Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(diphenylphosphino)]diiron, Fe-02114
Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(diphenylphosphino)]diiron(1+), Fe-02115

C₃₆H₃₀Fe₃

1,2,4-Triferrocenylbenzene, Fe-02116
1,3,5-Triferrocenylbenzene, Fe-02117

C₃₆H₃₂FeOP₂

1,1'-Bis(diphenylphosphino)-2-(1-hydroxyethyl)-ferrocene, Fe-02118

C₃₆H₃₃BFe

(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-methylbenzene]iron(1+); Tetraphenylborate, *in* Fe-00925

C₃₆H₃₄As₂FeI₂

1,1'-Bis(diphenylarsino)ferrocene; B.2MeI, *in* Fe-02091

C₃₆H₄₁FeO₃P

Carboxyl(carboxymethyl)- η^5 -cyclopentadienyl(triphenylphosphine)iron menthyl ester, Fe-02119

C₃₆H₅₀BFeO₂P₃

Dicarbonylmethyltris(trimethylphosphine)iron(1+); Tetraphenylborate, *in* Fe-00982

C₃₇H₂₀FeO₁₃P₂Ru₃

Nonacarbonylbis[μ -(diphenylphosphino)]-(tetracarbonyliron)triruthenium, Fe-02120

C₃₇H₂₅AsFeO₃

Tricarbonyl[(2,3,4,5- η)-1,2,3,4,5-pentaphenylarsole]-iron, Fe-02121

C₃₇H₂₅BFeO₃

Tricarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentaphenyl-1*H*-borole]iron, Fe-02122

C₃₇H₂₅BrFeO₂

Bromodicarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentaphenyl-2,4-cyclopentadien-1-yl]iron, Fe-02123

C₃₇H₂₅FeO₃P

Tricarbonyl[(2,3,4,5- η)-1,2,3,4,5-pentaphenylphosphole]-iron, Fe-02124

C₃₇H₂₅FeO₄P

Tricarbonyl[(2,3,4,5- η)-1,2,3,4,5-pentaphenylphosphole oxide]iron, Fe-02125

C₃₇H₂₆FeO₂

Dicarbonylhydro[(1,2,3,4,5- η)-1,2,3,4,5-pentaphenyl-2,4-cyclopentadien-1-yl]iron, Fe-02126

C₃₇H₃₀ClFeNO₂P₂

Carboxylchloronitrosylbis(triphenylphosphine)iron, Fe-02127

C₃₇H₃₀FeNO₂P₂[⊖]

Carboxylnitrosylbis(triphenylphosphine)ferrate(1-), Fe-02128

- C₃₇H₃₁FeNO₂P₂**
Carbonylhydronitrosylbis(triphenylphosphine)iron, Fe-02129
- C₃₇H₃₃Fe₅O₁₂P₃**
(Carbon)dodecacarbonyltris(dimethylphenylphosphine)-
penta-iron, Fe-02130
- C₃₇H₃₆F₆FeNP₂Rh**
1-[1-(Dimethylamino)ethyl]-2-(diphenylphosphino)-
ferrocene; (Norbornadiene)rhodiumhexafluorophosphate com-
plex, *in* Fe-01939
- C₃₇H₅₄BFeO₉P₃**
[(1,2,3- η)-2-Butenyl]tris(trimethyl
phosphite-*P*)iron(1+); Tetraphenylborate, *in* Fe-01126
- C₃₈H₃₀AuFeNO₃P₂**
Dicarbonylnitrosyl(triphenylphosphine)-
[(triphenylphosphine)aurio]iron, Fe-02131
- C₃₈H₃₀BF₄FeNO₃P₂**
Dicarbonylnitrosylbis(triphenylphosphine)iron(1+); Tetrafluoro-
borate, *in* Fe-02136
- C₃₈H₃₀Br₂FeO₂P₂**
Dibromodicarbonylbis(triphenylphosphine)iron, Fe-02132
- C₃₈H₃₀Cl₂FeO₂P₂**
Dicarbonyldichlorobis(triphenylphosphine)iron, Fe-02133
- C₃₈H₃₀F₆FeNO₃P₃**
Dicarbonylnitrosylbis(triphenylphosphine)iron(1+); Hexafluoro-
phosphate, *in* Fe-02136
- C₃₈H₃₀FeGeNO₆P**
Dicarbonylnitrosyl(triphenylgermyl)(triphenyl
phosphite-*P*)iron, Fe-02134
- C₃₈H₃₀FeNO₃PSn**
Dicarbonylnitrosyl(triphenylphosphine)-
(triphenylstannyl)iron, Fe-02135
- C₃₈H₃₀FeNO₃P₂[⊕]**
Dicarbonylnitrosylbis(triphenylphosphine)iron(1+), Fe-02136
- C₃₈H₃₀FeNO₆PPb**
Dicarbonylnitrosyl(triphenyl phosphite-*P*)-
(triphenylplumbyl)iron, Fe-02137
- C₃₈H₃₀FeNO₆PSn**
Dicarbonylnitrosyl(triphenyl phosphite-*P*)-
(triphenylstannyl)iron, Fe-02138
- C₃₈H₃₀FeO₄P₂**
Dicarbonyl(dioxygen)bis(triphenylphosphine)iron, Fe-02139
- C₃₈H₃₂FeO₈P₂**
Dicarbonyldihydrobis(triphenyl phosphite-*P*)iron, Fe-02140
- C₃₈H₃₄BFeO₂**
(η^6 -Benzene)[(1,2,3,4,5,6- η)-1-(ethoxycarbonyl)-2,4-
cyclopentadien-1-yl]iron(1+) tetraphenylborate, *in* Fe-00847
- C₃₈H₃₅BFeO₂**
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-ethyl
benzoate]iron(1+) tetraphenylborate, *in* Fe-00883
- C₃₈H₃₇BFe**
(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-1,3,5-
trimethylbenzene]iron(1+); Tetraphenylborate, *in* Fe-01235
- C₃₈H₃₇FeNP₂**
1-(1-Dimethylaminoethyl)-1',2-bis(diphenylphosphino)-
ferrocene, Fe-02141
- C₃₈H₄₈FeO₅**
(Calciferol)tricarbonyliron; Benzoyl, *in* Fe-02045
Tricarbonyl[(5,6,7,8- η)-5,7,22-ergostatrien-3-ol]iron; Benzoyl,
in Fe-02048
Tricarbonyl(tachysterol₂)iron; Benzoyl, *in* Fe-02047
- C₃₈H₅₁FeN₄P**
Tetrakis(2-isocyano-2-methylpropane)-
(triphenylphosphine)iron, Fe-02142
- C₃₉H₃₀As₂FeO₃**
Tricarbonylbis(triphenylarsine)iron, Fe-02143
- C₃₉H₃₀FeO₂P₂S₂**
(Carbon disulfide)dicarbonylbis(triphenylphosphine)-
iron, Fe-02144
- C₃₉H₃₀FeO₃P₂**
▷ Tricarbonylbis(triphenylphosphine)iron, Fe-02145
- C₃₉H₃₀FeO₃Sb₂**
Tricarbonylbis(triphenylstibine)iron, Fe-02146
- C₃₉H₃₀FeO₉P₂**
Tricarbonylbis(triphenyl phosphite-*P*)iron, Fe-02147
- C₃₉H₃₃FeNO₄P₂**
Carbonyl(methoxycarbonyl)-
nitrosylbis(triphenylphosphine)iron, Fe-02148
- C₃₉H₆₁BFeO₁₂P₄**
(η^3 -2-Propenyl)tetrakis(trimethyl phosphite-*P*)iron(1+); Tetra-
phenylborate, *in* Fe-01364
- C₄₀H₂₄Fe₂**
Bis[μ -[(6*a*,7,8,9,9*a*- η :9*d*,10,11,12,12*a*- η)-
dicyclopenta[*c,g*]phenanthrene]]diiron, Fe-02149
- C₄₀H₂₈Fe**
1,1'-(5',6'-Diphenyl[1,1':2',1''-terphenyl]-3',4'-diyl)-
ferrocene, Fe-02150
- C₄₀H₃₀Au₂FeO₄P₂**
Tetracarbonylbis[(triphenylphosphine)aurio]iron, Fe-02151
- C₄₀H₃₀Fe**
1,2,3,4,5-Pentaphenylferrocene, Fe-02152
- C₄₀H₃₀FeO₄Pb₂**
Tetracarbonylbis(triphenylplumbyl)iron, Fe-02153
- C₄₀H₃₀FeO₄Sn₂**
Tetracarbonylbis(triphenylstannyl)iron, Fe-02154
- C₄₀H₃₀Fe₂HgN₂O₆P₂**
Tetracarbonyl(mercury)dinitrosylbis(triphenylphosphine)-
diiron, Fe-02155
- C₄₀H₃₁FeNO₄P₂**
Tetracarbonylhydroferrate(1-); Bis(triphenylphosphine)imi-
nium salt, *in* Fe-00042
- C₄₀H₃₃F₆FeO₂P₃S₂**
Dicarbonyl[(methylthio)thioxomethyl]-
bis(triphenylphosphine)iron(1+); Hexafluorophosphate, *in*
Fe-02156
- C₄₀H₃₃FeO₂P₂S₂[⊕]**
Dicarbonyl[(methylthio)thioxomethyl]-
bis(triphenylphosphine)iron(1+), Fe-02156
- C₄₀H₃₄Fe₄**
1,1'':1''',1''''':1''''',1''''''-Quaterferrocene, Fe-02157
- C₄₀H₃₉BFeO**
[(1,2,3,4,5- η)-1-Acetyl-2,4-cyclopentadien-1-yl]-
[(1,2,3,4,5,6- η)-1,3,5-trimethylbenzene]iron(1+); Tetraphen-
ylborate, *in* Fe-01431
- C₄₀H₄₈FeLi₂N₄**
Tetrakis(η^2 -ethene)ferrate(2-); Di-Li salt, bis(tetramethylethy-
lenediamine) complex, *in* Fe-00322
- C₄₀H₆₈BFeO₁₅P₅**
Methylpentakis(trimethyl phosphite-*P*)iron(1+); Tetraphenyl-
borate, *in* Fe-01467
- C₄₁H₃₀FeN₂O₄P₂**
Tetracarbonyl(cyano-C)ferrate(1-); Bis(triphenylphosphine)-
iminium salt, *in* Fe-00065
- C₄₁H₃₁BrFe**
(η^6 -Benzene)[(1,2,3,4,5- η)-1,2,3,4,5-pentaphenyl-2,4-
cyclopentadien-1-yl]iron(1+); Bromide, *in* Fe-02158
- C₄₁H₃₁Fe[⊕]**
(η^6 -Benzene)[(1,2,3,4,5- η)-1,2,3,4,5-pentaphenyl-2,4-
cyclopentadien-1-yl]iron(1+), Fe-02158
- C₄₁H₃₁FeI**
(η^6 -Benzene)[(1,2,3,4,5- η)-1,2,3,4,5-pentaphenyl-2,4-
cyclopentadien-1-yl]iron(1+); Iodide, *in* Fe-02158

- C₄₁H₃₁FeNO₅P₂**
Tetracarbonylformylferrate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00070
- C₄₁H₃₅BFe**
(η^6 -Benzene)[(1,2,3,4,5- η)-1-phenyl-2,4-cyclopentadien-1-yl]iron(1+); Tetraphenylborate, *in* Fe-01489
- C₄₁H₃₆FeOP₂**
(η^4 -1,3-Butadiene)carbonylbis(triphenylphosphine)iron, Fe-02159
- C₄₂H₃₀FeO₂**
Dicarbonyl[η^1 -(2,4-cyclopentadien-1-yl)][(1,2,3,4,5- η)-1,2,3,4,5-pentaphenyl-2,4-cyclopentadien-1-yl]-iron, Fe-02160
- C₄₂H₃₅F₆FeOP₃**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-bis(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-02161
- C₄₂H₃₅FeNO₄P₂**
Tetracarbonylethylferrate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00125
- C₄₂H₃₅FeNO₅P₂**
Tetracarbonyl(methoxymethyl)ferrate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00126
- C₄₂H₃₅FeOP₂[⊕]**
Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-bis(triphenylphosphine)iron(1+), Fe-02161
- C₄₂H₄₇FeN₂P₃**
(Dinitrogen)tris(ethylidiphenylphosphine)dihydroiron, Fe-02162
- C₄₃H₃₀FeGeO₃**
Tricarbonyl[(2,3,4,5- η)-1,1,2,3,4,5-hexaphenyl-1H-germole]iron, Fe-02163
- C₄₃H₃₀FeO₃Si**
Tricarbonyl[(2,3,4,5- η)-1,1,2,3,4,5-hexaphenylsilacyclopenta-2,4-diene]iron, Fe-02164
- C₄₃H₃₈FeOP₂**
Carbonyl[(1,2,3,4- η)-1,3-cyclohexadiene]-bis(triphenylphosphine)iron, Fe-02165
- C₄₄H₃₅BF₄FeN₂O₂P₂**
Dicarbonyl(phenylazo)bis(triphenylphosphine)iron(1+); Tetrafluoroborate, *in* Fe-02166
- C₄₄H₃₅FeN₂O₂P₂[⊕]**
Dicarbonyl(phenylazo)bis(triphenylphosphine)iron(1+), Fe-02166
- C₄₄H₃₇ClFeN₂OP₂**
Carbonylchloro(4-methylphenylazo)-bis(triphenylphosphine)iron, Fe-02167
- C₄₄H₄₀FeOP₂**
Carbonyl[(1,2,3,4- η)-1,3-cycloheptadiene]-bis(triphenylphosphine)iron, Fe-02168
- C₄₄H₄₀Fe₄**
[1.1.1.1]Ferrocenophane, Fe-02169
- C₄₅H₃₀FeMnNO₉P₂**
Nonacarbonylferratemanganate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00333
- C₄₅H₃₃FeO₆**
Tris(1,3-diphenyl-1,3-propanedionato-*O,O'*)iron, Fe-02170
- C₄₅H₃₆Fe₄O**
2,3,4,5-Tetraferrocenyl-2,4-cyclopentadien-1-one, Fe-02171
- C₄₆H₃₄Fe**
1,1',2,2',3,3'-Hexaphenylferrocene, Fe-02172
1,1',2,2',4,4'-Hexaphenylferrocene, Fe-02173
- C₄₆H₃₈Au₂FeP₂**
1,1'-[Bis(triphenylphosphine)aurio]ferrocene, Fe-02174
- C₄₆H₃₈CuFe₄O₄**
1,3-Diferrocenyl-1,3-propanedione; Cu(II) complex, *in* Fe-01802
- C₄₆H₃₈FeGe₂**
1,1'-Bis(triphenylgermyl)ferrocene, Fe-02175
- C₄₆H₃₈FeSi₂**
1,1'-Bis(triphenylsilyl)ferrocene, Fe-02176
- C₄₆H₃₉Au₂BF₄FeP₂**
[Bis(triphenylphosphine)digold](η^5 -2,4-cyclopentadien-1-yl)[μ_3 -[(1- η :1- η :1,2,3,4,5- η)-2,4-cyclopentadien-1-ylidene]]iron(1+); Tetrafluoroborate, *in* Fe-02177
- C₄₆H₃₉Au₂FeP₂[⊕]**
[Bis(triphenylphosphine)digold](η^5 -2,4-cyclopentadien-1-yl)[μ_3 -[(1- η :1- η :1,2,3,4,5- η)-2,4-cyclopentadien-1-ylidene]]iron(1+), Fe-02177
- C₄₇H₃₁Fe₃NO₁₁P₂**
 μ -Carbonyldecacarbonyl- μ -hydrotriferrate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00653
- C₄₇H₃₅F₆FeNO₂P₂**
Carbonyl(η^4 -tetraphenylcyclobutadiene)-nitrosyl(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-02178
- C₄₇H₃₅FeNO₂P[⊕]**
Carbonyl(η^4 -tetraphenylcyclobutadiene)-nitrosyl(triphenylphosphine)iron(1+), Fe-02178
- C₄₇H₃₇FeNO₄P₂**
Benzyltetracarbonylferrate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00669
- C₄₇H₃₉FeIO₆P₂**
Iodo[(1,2,3,4,5- η)-1-phenyl-2,4-cyclopentadien-1-yl]-bis(triphenyl phosphite-*P*)iron, Fe-02179
- C₄₈H₃₀FeN₂O₁₃P₂Ru₃**
Tri- μ -carbonylnonacarbonyl(nitrosylferrate)-triruthenate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00794
- C₄₈H₃₀Fe₂MnNO₁₂P₂**
Tetracarbonyl(di- μ -carbonylhexacarbonyldiferrate)-manganate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00797
- C₄₈H₃₀Fe₄N₂O₁₂P₂**
Dodecacarbonyl- μ_4 -nitridotetraferrate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00802
- C₄₈H₃₅FeO₂P**
Dicarbonyl(tetraphenyl-1,3-cyclobutadiene)-(triphenylphosphine)iron, Fe-02180
- C₄₈H₃₈Fe**
1,1'-Bis(triphenylmethyl)ferrocene, Fe-02181
- C₄₈H₄₀As₂N₄O₄S₂**
Tetranitrosyldi- μ -thioxodiferrate(2-); Bis(tetraphenylarsonium) salt, *in* Fe-02220
- C₄₈H₄₀BF₂O₂S₂**
Bis[μ -(benzenethiolato)dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron(1+); Tetraphenylborate, *in* Fe-01831
- C₄₈H₄₀FeP₂**
Bis[(1,2,3,4,5,6- η)-1,1-dihydro-1-methyl-2,4,6-triphenyl-1-phosphorinyl]iron, Fe-02182
- C₄₈H₄₂Cl₂FeN₆O₈**
Hexakis(1-isocyano-4-methylbenzene)iron(2+); Diperchlorate, *in* Fe-02183
- C₄₈H₄₂FeN₆^{⊕⊕}**
Hexakis(1-isocyano-4-methylbenzene)iron(2+), Fe-02183
- C₄₉H₃₁FeNO₁₃P₂Ru₃**
Di- μ -carbonylnonacarbonyl(dicarbonylferrate)- μ -hydrotriruthenate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00990
- C₄₉H₃₁Fe₂NO₁₃P₂Ru₂**
Hexacarbonyl(μ -carbonylhexacarbonyldiferrate)- μ -hydrodtriruthenate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00991

Tetrakis(benzenethiolato)tetra- μ_3 -thioxotetraferate(2-); Bis(tetrabutylammonium) salt, *in* Fe-01840

(Acetonitrile)(η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediylbis[diphenylphosphine]-*P,P'*]iron(1+); Tetraphenylborate, *in* Fe-02084

1,1',2,2',3,3',4,4'-Octaphenylferrocene, Fe-02196

Bis[(1,2,3,4,5,6- η)-1,1-dihydro-1,2,4,6-tetraphenyl-1-phosphorinyl]iron, Fe-02197

[(1,2,5,6- η)-1,5-Cyclooctadiene][1-[1-(dimethylamino)-ethyl]-2-(diphenylphosphino)ferrocene-*N,P*]-rhodium(1+); Tetraphenylborate, *in* Fe-02096

Di- μ_3 -carbonylnonacarbonyltriferrate(2-); Bis(tetraphenylarsonium) salt, *in* Fe-00652

Tri- μ -carbonylbis(tetraphenylcyclobutadiene)diiron, Fe-02198

(η^5 -2,4-Cyclopentadien-1-yl)tris(triphenyl phosphite-*P*)iron(1+); Tetrafluoroborate, *in* Fe-02199

(η^5 -2,4-Cyclopentadien-1-yl)tris(triphenylphosphite-*P*)iron(1+), Fe-02199

(η^5 -2,4-Cyclopentadiene)tris(triphenyl phosphite)iron, Fe-02200

Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(diphenylphosphino)]diiron(1+); Tetraphenylborate, *in* Fe-02115

(η^5 -2,4-Cyclopentadien-1-yl)tris(triphenyl phosphite-*P*)iron(I+); Thiocyanate, *in* Fe-02199

1,1'-Sexiferrocene, Fe-02201

Astechrome, Fe-02202

Tricarbonyl[(1,2,3,4,5- η)-1-hydroxy-2,3,4,5-tetraphenyl-2,4-cyclopentadien-1-yl]iron(1+); Dimeric Ag salt, bis(hexafluorophosphate), *in* Fe-02057

(5-Phenyl-1,3-cyclopentadiene)tris(triphenylphosphite)iron, Fe-02203

Bis[(1,2,3,4,5,6- η)-1,3,5-trimethylbenzene]iron(2+); Bis(tetraphenylborate), *in* Fe-01580

Hexakis(trimethyl phosphite-*P*)iron(2+); Bis(tetraphenylborate), *in* Fe-01591

Tetrakis(benzenethiolato)tetra- μ_3 -thioxotetraferate(2-); Bis(tetraphenylarsonium) salt, *in* Fe-01840

Dihydrotetrakis(triphenyl phosphite-*P*)iron, Fe-02204

(Dinitrogen)bis[1,2-ethanediylbis(diphenylphosphine-*P,P'*)]hydroiron(1+); Tetraphenylborate, *in* Fe-02191

$C_{85}H_{60}Fe_4N_2O_{12}P_4$

(Carbon)dodecacarbonyltetra ferrate(2-); Bis[bis(triphenylphosphine)iminium] salt, *in* Fe-00987

 $C_{92}H_{78}Au_4Fe_2O_4P_4S$

[Bis(triphenylphosphine)digold](η^5 -2,4-cyclopentadien-1-yl)[μ_3 -{(1- η :1- η :1,2,3,4,5- η)-2,4-cyclopentadien-1-ylidene}]iron(1+); Sulfate, *in* Fe-02177

 $C_{96}H_{82}B_2FeN_6$

Hexakis(1-isocyano-4-methylbenzene)iron(2+); Bis(tetraphenylborate), *in* Fe-02183

 $ClFeN_2O_2$

Chlorodinitrosyliron, *in* Fe-02208

 $ClFeN_3O_3$

Chlorotrinitrosyliron, Fe-02206

 $Cl_2FeN_2O_2^{\ominus}$

Dichlorodinitrosylferrate(1-), Fe-02207

 $Cl_2Fe_2N_4O_4$

Di- μ -chlorotetranitrosyldiiron, Fe-02208

 $F_6FeN_2O_2P_2$

Dinitrosylbis(phosphorous trifluoride)iron, Fe-02209

 $F_9FeHNO_3P_3$

Hydronitrosyltris(phosphorus trifluoride)iron, Fe-02210

 $F_9FeKNOP_3$

Nitrosyltris(phosphorous trifluoride)ferrate(1-); K salt, *in* Fe-02211

 $F_9FeNOP_3^{\ominus}$

Nitrosyltris(phosphorous trifluoride)ferrate(1-), Fe-02211

 $F_{12}FeHKP_4$

Hydrotetrakis(phosphorous trifluoride)ferrate(1-); K salt, *in* Fe-02212

 $F_{12}FeHP_4^{\ominus}$

Hydrotetrakis(phosphorous trifluoride)ferrate(1-), Fe-02212

 $F_{12}FeH_2P_4$

Dihydrotetrakis(phosphorous trifluoride)iron, Fe-02213

 $F_{12}FeK_2P_4$

Tetrakis(phosphorous trifluoride)ferrate(2-); Di-K salt, *in* Fe-02214

 $F_{12}FeP_4^{\ominus\ominus}$

Tetrakis(phosphorous trifluoride)ferrate(2-), Fe-02214

 $F_{15}FeP_5$

Pentakis(phosphorous trifluoride)iron, Fe-02215

 $FeH_4N_8O_7S_3$

Ammonium heptanitrosyl trithiotetra ferrate, *in* Fe-02222

 $FeIN_2O_2$

Iododinitrosyliron, *in* Fe-02219

 $FeIN_3O_3$

Iodotrinitrosyliron, Fe-02216

 $Fe_2H_2N_4O_4S_2$

Bis(μ -hydrothioxo)tetranitrosyldiiron, Fe-02217

 $Fe_2H_4N_6O_4$

Di- μ -amidotetranitrosyldiiron, Fe-02218

 $Fe_2I_2N_4O_4$

Di- μ -iodotetranitrosyldiiron, Fe-02219

 $Fe_2N_4Na_2O_4S_2$

Roussin's red salt, *in* Fe-02220

 $Fe_2N_4O_4S_2^{\ominus\ominus}$

Tetranitrosyldi- μ -thioxodiferrate(2-), Fe-02220

 $Fe_4N_4O_4S_4$

Tetranitrosyltetra- μ_3 -thioxotetrairon, Fe-02221

 $Fe_4N_7O_7S_3^{\ominus}$

Heptanitrosyltri- μ_3 -thioxotetra ferrate(1-), Fe-02222

CAS Registry Number Index

- 102-54-5 ▶ Ferrocene, Fe-00563
 1271-15-4 Lithioferrocene, Fe-00550
 1271-16-5 Nitroferrocene, Fe-00552
 1271-17-6 Ferrocenium; Chloride, *in* Fe-00564
 1271-42-7 Ferrocenecarboxylic acid, Fe-00711
 1271-44-9 Methylferrocene, Fe-00749
 1271-47-2 Ethynylferrocene, Fe-00843
 1271-48-3 1,1'-Ferrocenedicarboxaldehyde, Fe-00850
 1271-51-8 Vinylferrocene, Fe-00892
 1271-55-2 ▶ Acetylferrocene, Fe-00893
 1271-56-3 Ferrocenecarboxylic acid; Me ester, *in* Fe-00711
 1271-58-5 (2-Chloro-1-hydroxyethyl)ferrocene, Fe-00921
 1271-86-9 (Ferrocenylmethyl)dimethylamine, Fe-01108
 1271-90-5 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3a,7a- η)-4,5,6,7-tetrahydro-4-oxo-1H-inden-1-yl]iron; (3a*R*)-form, *in* Fe-01198
 1271-95-0 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3a,7a- η)-4,5,6,7-tetrahydro-4-hydroxy-1H-inden-1-yl]iron; ($\pm$)-endo-form, *in* Fe-01225
 1271-98-3 1-Ferrocenylethanol; ($\pm$)-form, Ac, *in* Fe-00941
 1272-10-2 1,1'-(1,1,3,3-Tetramethyl-1,3-disiloxanedyl)ferrocene, Fe-01271
 1272-34-0 (Phenylsulfonyl)ferrocene, *in* Fe-01406
 1272-43-1 (4-Formylphenyl)ferrocene, Fe-01482
 1272-44-2 Benzoylferrocene, Fe-01481
 1272-49-7 Bis[(1,2,3,3a,7a- η)-1H-inden-1-yl]iron, Fe-01532
 1272-54-4 (2-Phenylethenyl)ferrocene; (*E*)-form, *in* Fe-01557
 1272-95-3 1,1'-Sulfonyldiferrocene, *in* Fe-01669
 1273-16-1 (Hydroxydiphenylmethyl)ferrocene, Fe-01798
 1273-18-3 1,4-Diferrocenyl-1,3-butadiyne, Fe-01817
 1273-42-3 2-[(Dimethylamino)methyl]- α,α -diphenylferrocenemethanol, Fe-01937
 1273-59-2 1,1'':1''',1''''-Terferrocene, Fe-02006
 1273-73-0 Bromoferrocene, Fe-00544
 1273-74-1 Chloroferrocene, Fe-00546
 1273-75-2 Chloromercuriferrocene, Fe-00547
 1273-76-3 Iodoferrocene, Fe-00549
 1273-77-4 Azidoferrrocene, Fe-00556
 1273-82-1 Aminoferrrocene, Fe-00598
 1273-84-3 Cyanoferrrocene, Fe-00690
 1273-86-5 Ferrocenemethanol, Fe-00752
 1273-87-6 Methoxyferrocene, *in* Fe-00567
 1273-88-7 Acetoxyferrocene, *in* Fe-00567
 1273-89-8 Ethylferrocene, Fe-00938
 1273-90-1 (2-Hydroxyethyl)ferrocene, Fe-00942
 1273-92-3 Propylferrocene, Fe-01095
 1273-94-5 1,1'-Diacylferrocene, Fe-01203
 1273-95-6 1,1'-Ferrocenedicarboxylic acid; Di-Me ester, *in* Fe-00860
 1273-97-8 1,1'-Diethylferrocene, Fe-01245
 1274-09-5 Diferrocenylmercury, Fe-01667
 1274-11-9 1,4-Diferrocenylbutane, Fe-01852
 1274-26-6 (1-Chloroethyl)ferrocene, Fe-00919
 1277-49-2 ▶ 1-Ferrocenylethanol, Fe-00941
 1277-51-6 (η^6 -Benzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-00734
 1277-68-5 (Hydroxyphenylmethyl)ferrocene; ($\pm$)-form, *in* Fe-01495
 1277-69-6 Ferrocenylphenylmethylum(1+); Perchlorate, *in* Fe-01491
 1277-72-1 (Phenylacetyl)ferrocene, Fe-01563
 1282-37-7 Ferrocenium; Tetrafluoroborate, *in* Fe-00564
 1284-76-0 1-Ferrocenyl-2-buten-1-one, Fe-01201
 1287-16-7 Ferroceneacetic acid, Fe-00899
 1287-17-8 Ferrocenecarboxamide, Fe-00736
 1287-25-8 Phenylferrocene, Fe-01399
 1287-38-3 1,1''-Biferrocene, Fe-01666
 1291-35-6 Ferrocenium; Triiodide, *in* Fe-00564
 1291-46-9 (1-Chloroethenyl)ferrocene, Fe-00874
 1291-47-0 1,1'-Dimethylferrocene, Fe-00935
 1291-48-1 1,1'-Bis(hydroxymethyl)ferrocene, Fe-00945
 1291-50-5 3-Ferrocenyl-2-propynoic acid, Fe-01018
 1291-66-3 1,1'-Divinylferrocene, Fe-01195
 1291-72-1 γ -Oxoferrrocenebutanoic acid, Fe-01207
 1291-76-5 Ferrrocenebutanoic acid, Fe-01228
 1292-06-4 1,1'-Bis[(dimethylamino)methyl]ferrocene, Fe-01454
 1292-14-4 (Phenylethynyl)ferrocene, Fe-01534
 1292-30-4 1-Ferrocenyl-3-phenyl-2-propen-1-one; (*E*)-form, *in* Fe-01622
 1292-82-6 Triferrocenylphosphine, Fe-02011
 1293-65-8 1,1'-Dibromoferrrocene, Fe-00506
 1293-67-0 1,1'-Dichloroferrrocene, Fe-00509
 1293-80-7 Thiocyanatoferrrocene, Fe-00696
 1293-84-1 Methylsulfonylferrocene, *in* Fe-00761
 1293-85-2 (Methylthio)ferrocene, Fe-00761
 1293-87-4 1,1'-Ferrocenedicarboxylic acid, Fe-00860
 1293-88-5 1-Acetyl-1'-chloroferrrocene, Fe-00876
 1293-94-3 1,1'-Bis(methylthio)ferrocene, Fe-00948
 1294-01-5 1-Acetyl-2-methylferrrocene, Fe-01070
 1294-11-7 Phenoxyferrrocene, Fe-01402
 1294-16-2 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3a,8a- η)-1,8-dihydro-8-oxocyclopenta[a]inden-1-yl]iron, Fe-01474
 1294-39-9 [1.1]Ferrocenophane, Fe-01765
 1294-42-4 1,12-Dimethyl[1.1]ferrrocenophane, Fe-01850
 1295-16-5 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,4a,8a- η)-naphthalene]iron(1+); Tetrafluoroborate, *in* Fe-01322
 1295-40-5 [(1,2,3,4,5,6- η)-1,1'-Biphenyl](η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-01490
 1298-50-6 (Oxiranylmethyl)ferrrocene, Fe-01073
 1298-66-4 2-Ferrrocenoylbenzoic acid, Fe-01540
 1299-15-6 1,1'':1''',1''''':1''''',1''''''-Quaterferrrocene, Fe-02157
 1299-19-0 1,1'':1''',1''''':1''''',1''''''-Quinqueferrrocene, Fe-02186
 1299-20-3 1,1'-Sexiferrrocene, Fe-02201
 1316-91-2 (Cyanomethyl)ferrrocene, *in* Fe-00899
 1316-95-6 1-Acetyl-3-ethylferrrocene, Fe-01224
 1316-96-7 1-Acetyl-1'-ethylferrrocene, Fe-01222
 1316-97-8 1-Acetyl-2-ethylferrrocene, Fe-01223
 1316-98-9 *tert*-Butylferrrocene, Fe-01244
 1317-08-4 1,3-Di-*tert*-butylferrrocene, Fe-01583
 1317-11-9 Diferrocenylmethane, Fe-01726
 1317-18-6 1,1'':3'',1''''-Terferrrocene, Fe-02008
 11057-48-0 Bis[μ -(benzenethiolato)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron; *cis*-form, *in* Fe-01833
 11057-49-1 Bis[μ -(benzenethiolato)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron; *trans*-form, *in* Fe-01833
 11057-50-4 Bis[μ -(benzeneselenolato)]dicarbonylbis(η^5 -cyclopentadien-1-yl)diiron; *cis*-form, *in* Fe-01834
 11057-51-5 Bis[μ -(benzeneselenolato)]dicarbonylbis(η^5 -cyclopentadien-1-yl)diiron; *trans*-form, *in* Fe-01834
 11058-58-5 Dichlorobis[1,1'-ferrrocenediylbis(dimethylarsine)]ruthenium, Fe-01977
 11064-20-3 Dodecacarbonyltetrahydro(iron)triruthenium, Fe-00808
 11064-31-6 Tricarbonyl(1,3,5,7-Cyclooctatetraene-1-carboxaldehyde)iron, Fe-00832
 11064-43-0 Tricarbonyl(1,3,5,7-cyclooctatetraene-1-methanol)iron, Fe-00864
 11064-94-1 (1,2-Dicarbododecaboran(12)-1-yl)ferrrocene, Fe-00975
 11065-63-7 Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron(1+); *cis*-form, Tetrafluoroborate, *in* Fe-01232
 11067-36-0 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrrocenyliron, Fe-01487

- 11070-28-3 Bis[(7,8,9,10,11- η)-1,2,3,4,5,6,9,10,11-nonahydro-7,8-dimethyl-7,8-dicarbaundecaborato(2-)]ferrate(1-), Fe-00328
- 11077-12-6 (η^5 -2,4-Cyclopentadien-1-yl)(η^5 -1*H*-pyrrol-1-yl)iron, Fe-00416
- 11077-24-0 Ferrocenium; Hexafluorophosphate, *in* Fe-00564
- 11078-02-7 1,1'-Azobisferrocene, Fe-01668
- 11087-47-1 (Carbon)pentadecacarbonylpentairon, Fe-01372
- 11087-55-1 [μ_6 -(Carbon)]tri- μ -carbonyltridecacarbonylhexaferate(2-); Bis(tetraethylammonium) salt, *in* Fe-01468
- 11105-90-1 1,1'':1',1'''-Biferrocene, Fe-01662
- 11105-98-9 Ferrocenylmethylsomoene, Fe-01724
- 11105-99-0 (Ferrocenylmethyl)ruthenocene, Fe-01725
- 11106-19-7 [1.1.1.1]Ferrocenophane, Fe-02169
- 11108-19-3 Bis(η^6 -benzene)iron(2+); Bis(hexafluorophosphate), *in* Fe-00889
- 11112-31-5 [μ_6 -(Carbon)]tri- μ -carbonyltridecacarbonylhexaferate(2-); Bis(tetramethylammonium) salt, *in* Fe-01468
- 11121-63-4 Decachloroferrocene, Fe-00471
- 11136-43-9 2,4,6-Triferrocenylborazine, Fe-02015
- 12002-28-7 Tetracarbyldihydroiron, Fe-00043
- 12012-85-0 [(1,2,3- η)-2-Butenyl]dicarbonylnitrosyliron, Fe-00132
- 12071-54-4 Dicarbonylnitrosyl(η^3 -2-propenyl)iron, Fe-00080
- 12078-17-0 Tricarbonyl(η^4 -1,3-cyclobutadiene)iron, Fe-00160
- 12078-20-5 Bromodicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00173
- 12078-28-3 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iodoiron, Fe-00190
- 12078-32-9 $\triangleright$ (η^4 -1,3-Butadiene)tricarbonyliron, Fe-00201
- 12078-33-0 Tricarbonyl(η^4 -2-methylene-1,3-propanediyl)iron, Fe-00202
- 12079-72-0 Tricarbonyl(η^5 -2,4-pentadienyl)iron(1+); Tetrafluoroborate, *in* Fe-00292
- 12080-06-7 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)methyliron, Fe-00298
- 12080-10-3 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methanethiolato)iron, Fe-00299
- 12080-18-1 Tricarbonyl[(1,2,3,4- η)-1,3-pentadiene]iron, Fe-00302
- 12080-26-1 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methylsulfonyl)iron, Fe-00309
- 12082-23-4 Tricarbonyl(η^4 -3-methylene-4-penten-2-one)iron, Fe-00404
- 12082-28-9 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^2 -ethene)iron(1+); Hexafluorophosphate(1-), *in* Fe-00420
- 12084-04-7 Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-2-ol]iron, Fe-00624
- 12084-36-5 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trimethylstannyl)iron, Fe-00635
- 12085-58-4 μ -Carbonyltetracarbyl[μ -[(1,2,3,4- η)-5,6,7,8- η]-1,3,5,7-cyclooctatetraene]]diiron, Fe-01010
- 12085-62-0 [(η^4 -1,3-Butadienyl)benzene]tricarbonyliron; *synform*, *in* Fe-01022
- 12085-78-8 [3]Ferrocenophan-1-one, Fe-01048
- 12085-92-6 Dicarbonyl[(1,2- η)-cyclohexene](η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-01085
- 12085-94-8 1-Chloro-2-[(dimethylamino)methyl]ferrocene, Fe-01092
- 12086-33-8 1-[(Dimethylamino)methyl]-2-(hydroxymethyl)ferrocene, Fe-01264
- 12086-40-7 $\triangleright$ (Ferrocenylmethyl)dimethylamine; B, MeI, *in* Fe-01108
- 12087-05-7 Tricarbonyl(η^4 -2-methylene-1-phenyl-3-buten-1-one)iron, Fe-01153
- 12087-07-9 Tricarbonyl[(2,3,4,5- η)-5-phenyl-2,4-pentadienyl]iron, Fe-01155
- 12087-63-7 Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron, Fe-01231
- 12087-76-2 [μ -[(1,2,3,4,5,6,7,8- η)-Azulene]]pentacarbonyldiiron, Fe-01291
- 12087-88-6 (2-Thienylcarbonyl)ferrocene, Fe-01306
- 12088-07-2 1,1'-(1,3-Cyclopentanediy)ferrocene, Fe-01340
- 12088-73-2 Pentacarbonyl[μ -dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron]manganese, Fe-00810
- 12088-77-6 Hexacarbonyl[μ -[(1,2,5- η)-1,4,5- η]-3-methylene-1,4-pentadiene-1,5-diyl]]diiron, Fe-00819
- 12088-86-7 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(pyridine)iron(1+); Hexafluorophosphate, *in* Fe-00846
- 12088-89-0 1,1'-Dicyanoferrocene, Fe-00823
- 12088-99-2 1-Acetyl-1'-bromoferrocene, Fe-00873
- 12089-37-1 1,1'-Bis(aminocarbonyl)ferrocene, *in* Fe-00860
- 12091-55-3 (4-Chlorophenyl)ferrocene, Fe-01393
- 12091-58-6 (4-Nitrophenyl)ferrocene, Fe-01395
- 12092-08-9 [3][3](1,3)Ferrocenophane, Fe-01427
- 12093-05-9 Tricarbonyl[(1,2,3,4- η)-1,3,5,7-cyclooctatetraene]iron, Fe-00675
- 12093-06-0 [(1,6,7,8- η)-Bicyclo[4.2.0]octa-1,3,5,7-tetraene]tricarbonyliron, Fe-00662
- 12093-10-6 Ferrocenecarboxaldehyde, Fe-00708
- 12093-15-1 (Chloromethyl)ferrocene, Fe-00731
- 12093-20-8 Tricarbonyl(1,2,5,6- η)-1,5-cyclooctadieneiron, Fe-00754
- 12093-78-6 1,2-Ferrocenedicarboxaldehyde, Fe-00851
- 12093-82-2 1,2-Bis(hydroxymethyl)ferrocene, Fe-00946
- 12093-85-5 1-Acetyl-3-methylferrocene, Fe-01071
- 12093-87-7 (1-Hydroxy-1-methylethyl)ferrocene, Fe-01101
- 12093-91-3 Benzylidicarbonyl- π -cyclopentadienyliron, Fe-01177
- 12094-24-5 (2-Phenylethenyl)ferrocene, Fe-01557
- 12097-81-3 Diferrocenylmethanone, Fe-01719
- 12098-13-4 1,1'-Diphenylferrocene, Fe-01745
- 12098-14-5 Diferrocenylacetylene, Fe-01754
- 12098-17-8 Ferrocenyldiphenylphosphine, Fe-01760
- 12099-12-6 Bromocarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01822
- 12099-13-7 Carbonylchloro(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01824
- 12099-18-2 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-iodo(triphenylphosphine)iron, Fe-01826
- 12100-39-9 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-01880
- 12100-51-5 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-methyl(triphenylphosphine)iron, Fe-01903
- 12100-65-1 1,1'-Bis(phenylethynyl)ferrocene, Fe-01916
- 12102-78-2 Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(diphenylphosphino)]diiron, Fe-02114
- 12104-28-8 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-bis(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-02161
- 12107-04-9 Dicarbonylchloro(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00182
- 12107-06-1 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trichlorogermyl)iron, Fe-00186
- 12107-09-4 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-), Fe-00194
- 12107-38-9 Dicarbonyl(chloromethyl)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00283
- 12107-39-0 Dicarbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]iodoiron, Fe-00285
- 12108-22-4 Acetyldicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00388
- 12108-27-9 Dicarbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iodoiron, Fe-00415
- 12108-28-0 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^2 -ethene)iron(1+), Fe-00420
- 12108-34-8 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(ethanethiolato)iron, Fe-00428
- 12108-35-9 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methoxymethyl)iron, *in* Fe-00300
- 12108-35-9 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)methoxymethyliron, Fe-00429
- 12108-37-1 Tricarbonyl[(1,2,3,4- η)-1,3-hexadiene]iron, Fe-00432
- 12108-39-3 Tricarbonyl[(2,3,4,5- η)-2,4-hexadien-1-ol]iron, Fe-00437
- 12108-40-6 Tricarbonyl[(3,4,5,6- η)-3,5-hexadien-2-ol]iron, Fe-00438
- 12108-96-2 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^1 -1-pyrrolyl)iron, Fe-00692
- 12108-97-3 Tricarbonyl[(2,3,4,5- η)-2,4-cycloheptadiene-1-carbonitrile]iron, Fe-00695

- 12109-11-4 1-Methyl-1'-nitroferrocene, Fe-00739
 12109-76-1 1-Ethyl-1'-nitroferrocene, Fe-00927
 12110-44-0 (Benzenethiolato)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01019
 12110-60-0 1-Bromo-2-[(dimethylamino)methyl]ferrocene, Fe-01091
 12110-62-2 2-[(Dimethylamino)methyl]ferroceneboronic acid, Fe-01111
 12111-28-3 1-[(Dimethylamino)methyl]-2-methylferrocene, Fe-01261
 12111-61-4 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^1 -1*H*-indol-1-yl)iron, Fe-01301
 12111-68-1 Di- μ -carbonyldicarbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01316
 12111-89-6 1-[(Dimethylamino)methyl]-2-ethylferrocene, Fe-01356
 12112-17-3 Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]diiron, Fe-01408
 12112-97-9 Tricarbonyl[η^4 -*N*-(3-phenyl-2-propenylidene)-benzenamine]iron, Fe-01531
 12113-22-3 *N,N*-(1,1'-Ferrocenediyl)dimethylene)aniline, Fe-01565
 12113-26-7 Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]diiron, Fe-01571
 12113-85-8 1,2-Diferrocenyl-1,2-ethanedione, Fe-01755
 12113-98-3 1,2-Diferrocenyl-1,2-ethanediol, Fe-01773
 12114-61-3 1,1'-Dibenzylferrocene, Fe-01844
 12116-69-7 Nitrosyltris(phosphorous trifluoride)ferrate(1-); Cobaltocenium salt, *in* Fe-02211
 12116-74-4 Tricarbonyl[(1,2,3,4- η)-5-methoxy-1,3-cyclohexadiene]iron; *exo-form*, *in* Fe-00586
 12117-38-3 Ferrocenylphenylmethylum(1+), Fe-01491
 12117-55-4 (η^1 -9*H*-Carbazol-1-yl)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01598
 12119-33-4 Octacarbonylbis[1,1'-(1,2-ethynediyl)-bis(benzene)]triiron, Fe-02107
 12123-79-4 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-phenyl(triphenyl phosphite-*P*)iron, Fe-02003
 12123-80-7 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-phenyl(triphenylphosphine)iron, Fe-02002
 12125-70-1 Tricarbonyl[(2,3,4,5- η)-2,4-hexadienal]iron, Fe-00401
 12125-78-9 Dicarbonyl(cyano-*C*)[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iron, Fe-00551
 12125-80-3 Ferrocenium, Fe-00564
 12126-11-3 2-Hydroxymethylferrocenecarboxaldehyde, Fe-00900
 12126-12-4 1'-Methylferrocenecarboxylic acid, Fe-00901
 12126-15-7 1,2-Dimethylferrocene, Fe-00936
 12126-16-8 1,3-Dimethylferrocene, Fe-00937
 12126-31-7 Bis[1*H*-(3*a*,3*a'*,4,4',5,5',6,6',6*a*,6*a'*- η)-hydropentalenyl]iron, Fe-01397
 12126-34-0 1,1'-Diisopropylferrocene, Fe-01445
 12126-41-9 3-Ferrocenyl-1-phenyl-2-propen-1-one, Fe-01623
 12126-50-0 Decamethylferrocene, Fe-01693
 12126-54-4 1,2-Diferrocenylethylene; (*E*)-*form*, *in* Fe-01764
 12126-66-8 1-Formyl-2-methylferrocene; (1*R*)-*form*, *in* Fe-00895
 12126-67-9 1,1'-[Oxybis(methylene)]ferrocene, Fe-00898
 12126-73-7 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)phenyliron, Fe-01017
 12126-81-7 Isopropylferrocene, Fe-01094
 12126-86-2 1,3-Butadienylferrocene, Fe-01193
 12126-96-4 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3*a*,7*a*- η)-4,5,6,7-tetrahydro-4-oxo-1*H*-inden-1-yl]iron; ($\pm$)-*form*, *in* Fe-01198
 12127-00-3 1,1'-(Oxydiethylidene)ferrocene, Fe-01226
 12128-29-9 Tricarbonyl[(1,2,3,4- η)-1,3-pentadiene]iron; *syn-form*, *in* Fe-00302
 12128-65-3 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(dimethylcarbamodithioato-*S,S'*)iron, Fe-00445
 12129-39-4 (η^6 -Benzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Iodide, *in* Fe-00734
 12129-62-3 (2,2,2-Trichloro-1-hydroxyethyl)ferrocene, Fe-00878
 12130-13-1 Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)-[dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-iron]molybdenum, Fe-01296
 12131-05-4 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3*a*,7*a*- η)-4,7-dihydro-4,7-dioxo-1*H*-inden-1-yl]iron, Fe-01149
 12131-06-5 Hexacarbonyl[(1,5,6- η :2,3,4- η)-1,3,5-cyclooctatriene]diiron, Fe-01166
 12132-08-0 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylplumbyl)iron, Fe-01881
 12132-09-1 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylstannyl)iron, Fe-01884
 12132-21-7 Diferrocenylphenylmethane, Fe-01952
 12132-51-3 1,3,5-Triferrocenylbenzene, Fe-02117
 12145-90-3 1,1'-Bis(chloromercuri)ferrocene, Fe-00511
 12145-93-6 1,1'-Diiodoferrocene, Fe-00516
 12146-58-6 (2-Nitroethenyl)ferrocene, Fe-00881
 12146-70-2 [(Methylthio)carbonyl]ferrocene, *in* Fe-00710
 12147-34-1 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3*a*,7*a*- η)-4,5,6,7-tetrahydro-4-hydroxy-1*H*-inden-1-yl]iron, Fe-01225
 12150-46-8 1,1'-Bis(diphenylphosphino)ferrocene, Fe-02093
 12152-20-4 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-); Na salt, *in* Fe-00194
 12152-37-3 Dicarbonyl(cyano-*C*)(η^5 -2,4-cyclopentadien-1-yl)-iron, Fe-00258
 12152-71-5 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ethenyliron, Fe-00385
 12152-72-6 Tricarbonyl(1,2,3,4- η)-1,3-cyclohexadieneiron, Fe-00390
 12152-73-7 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methoxycarbonyl)iron, Fe-00397
 12152-74-8 Tricarbonyl[(2,3,4,5- η)-2,4-hexadienoic acid]iron, Fe-00408
 12152-94-2 Ferroceneboronic acid, Fe-00596
 12153-13-8 (η^6 -Chlorobenzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-00704
 12153-21-8 Tricarbonyl[(2,3,4,5- η)-2,4-hexadienedioic acid]iron; *syn,syn-form*, Di-Me ester, *in* Fe-00361
 12153-30-9 (Mercaptomethyl)ferrocene, Fe-00760
 12153-89-8 (Methoxymethyl)ferrocene, Fe-00944
 12154-64-2 (1-Oxo-2-propenyl)ferrocene, Fe-01051
 12154-65-3 3-Ferrocenyl-2-propenoic acid, Fe-01055
 12154-77-7 [(Ferrocenylmethyl)thio]acetic acid, Fe-01080
 12154-94-8 Benzoyldicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01151
 12154-95-9 Di- μ -carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01164
 12156-01-3 (Diphenylarsino)ferrocene, Fe-01757
 12156-05-7 1,2-Diferrocenylethane, Fe-01771
 12156-98-8 Dicarbonyl[(1,2,3,4- η)-1,3,5-cycloheptatriene(triphenylphosphine)iron, Fe-01948
 12171-14-1 4-Ferrocenyl-3-buten-2-one, Fe-01202
 12171-16-3 Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron(1+); *cis-form*, Hexafluoroantimonate, *in* Fe-01232
 12171-40-3 1,1'-Bis(1,3-dioxobutyl)ferrocene, Fe-01569
 12171-93-6 Nonacarbonyl(diphenylacetylene)triiron, Fe-01782
 12171-97-0 1,3-Diferrocenyl-2-propen-1-one, Fe-01801
 12176-31-7 (η^6 -Benzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-00734
 12176-38-4 (Aminomethyl)ferrocene, Fe-00767
 12176-60-2 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(pentafluorophenyl)iron, Fe-01002
 12176-61-3 Tricarbonyl[(5-pentafluorophenyl)-1,3-cyclopentadiene]iron; *exo-form*, *in* Fe-01138
 12180-80-2 1,1'-Dibenzoylferrocene, Fe-01816
 12181-75-8 [(2,3- η)-2-Butene-1,4-dioic acid]tetracarbonyliron; (+)-(*E*)-*form*, *in* Fe-00254
 12181-95-2 [η^4 -5,6-Bis(methylene)-1,3-cyclohexadiene]tricarbonyliron, Fe-00674
 12182-12-6 Tricarbonyl[(1,3,3*a*,7*a*- η)-2,2-dimethyl-2*H*-indene]iron, Fe-01181

- 12182-30-8 Tetracarbonyl[(2,3- η)-2-propenoic acid]iron; (2*S*)-*form*, Brucine salt, *in* Fe-00165
- 12182-31-9 [(2,3- η)-2-Butene-1,4-dioic acid]tetracarbonyliron; (-)-(*E*)-*form*, Brucine salt, *in* Fe-00254
- 12182-32-0 [(2,3- η)-2-Butene-1,4-dioic acid]tetracarbonyliron; (+)-(*E*)-*form*, Brucine salt, *in* Fe-00254
- 12184-52-0 (η^6 -1,3,5,7-Cyclooctatetraene)(η^4 -1,3,5,7-cyclooctatetraene)iron, Fe-01418
- 12189-10-5 Tricarbonyliodo(η^3 -2-propenyl)iron, Fe-00120
- 12189-86-5 1,1'-Bis(trimethylsilyl)ferrocene, Fe-01458
- 12192-44-8 Tetracarbonyl(chloroethylene)iron, Fe-00106
- 12192-92-6 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(tribromostannyl)iron, Fe-00180
- 12192-93-7 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trichlorostannyl)iron, Fe-00188
- 12193-34-9 [(2,3,4,5- η)-1*H*-Azepine]tricarbonyliron, Fe-00370
- 12193-39-4 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^2 -ethene)iron(1+); Tetrafluoroborate(1-), *in* Fe-00420
- 12193-57-6 Tetracarbonyl(phenylethylene)iron, Fe-00831
- 12193-69-0 Tricarbonyl[(2,3,4,5- η)ethyl-1*H*-azepine-1-carboxylate]iron, *in* Fe-00503
- 12194-25-1 $\triangleright$ Diferrocenylmethylum(1+); Perchlorate, *in* Fe-01722
- 12194-28-4 Dicarbonyliodo(η^3 -2-propenyl)-(triphenylphosphine)iron, Fe-01797
- 12194-39-7 Bis(π_2 -dihydro-*as*-indacenylene)diiron, Fe-01813
- 12194-46-6 $\triangleright$ Triferrocenylmethylum(1+); Perchlorate, *in* Fe-02036
- 12203-82-6 Amminedicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron-(1+); Tetraphenylborate, *in* Fe-00220
- 12203-87-1 Tetra- μ_3 -carbonyltetrakis(η^5 -2,4-cyclopentadien-1-yl)tetrairon, Fe-01838
- 12204-67-0 Tetracarbonyl(tetraphenylbutatriene)iron, Fe-02049
- 12211-98-2 μ -[(1,2,3- η :2,3,4- η)-2-Butyne-1,4-diyl]hexacarbonyldiiron, Fe-00482
- 12211-99-3 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(1,2,3,3,3-pentafluoro-1-propenyl)iron, Fe-00487
- 12212-05-4 Tricarbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iron(1+); Tetrafluoroborate, *in* Fe-00557
- 12212-46-3 Hexacarbonyl μ -[(1,2,3- η :2,3,4- η)-1,1,4,4-tetramethyl-2-butyne-1,4-diyl]diiron, Fe-01185
- 12212-69-0 [(2,3,4,5- η)-Bicyclo[4.2.0]octa-2,4-diene]-[(1,2,3,4,5,6- η)-1,3,5-cyclooctatriene]iron, Fe-01432
- 12213-19-3 Dicarbonyl[(1,2,3,4- η)-1,3-cyclohexadiene]-(triphenylphosphine)iron, Fe-01929
- 12213-31-9 Dicarbonyl[(1,2,3,4- η)-1,3-cycloheptadiene]-(triphenylphosphine)iron, Fe-01953
- 12213-47-7 Dicarbonyl(tetraphenyl-1,3-cyclobutadiene)-(triphenylphosphine)iron, Fe-02180
- 12214-70-9 Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-2-one]iron; ($\pm$)-*syn, syn-form*, *in* Fe-00583
- 12214-71-0 Tricarbonyl[(2,3,4,5- η)-2,4-hexadienoic acid]iron; (-)-*syn, syn-form*, Me ester, *in* Fe-00408
- 12214-95-8 1-Formyl-2-methylferrocene, Fe-00895
- 12214-96-9 1-Formyl-3-methylferrocene, Fe-00896
- 12214-98-1 3-Methylferrocenecarboxylic acid, Fe-00903
- 12214-99-2 2-Methylferrocenecarboxylic acid; ($\pm$)-*form*, *in* Fe-00902
- 12215-05-3 1,1'-Dimethoxyferrocene, *in* Fe-00569
- 12215-08-6 (1-Aminoethyl)ferrocene; ($\pm$)-*form*, *in* Fe-00954
- 12215-49-5 1-Acetyl-1'-methylferrocene, Fe-01069
- 12215-52-0 (2-Oxopropyl)ferrocene, Fe-01074
- 12215-68-8 (Trimethylsilyl)ferrocene, Fe-01117
- 12215-82-6 1-Acetyl-1',3-dimethylferrocene, Fe-01221
- 12215-83-7 1-Acetyl-1',2-dimethylferrocene, Fe-01220
- 12216-00-1 2-Pyridinylferrocene, Fe-01323
- 12241-80-4 2-Methylferrocenecarboxylic acid; (1*S*)-*form*, *in* Fe-00902
- 12242-25-0 1',2-Dimethylferrocenecarboxylic acid, Fe-01076
- 12242-26-1 1',3-Dimethylferrocenecarboxylic acid, Fe-01077
- 12242-61-4 [5]Ferrocenophane-1,5-dione, Fe-01333
- 12242-62-5 [5]Ferrocenophane-1-one, Fe-01342
- 12243-53-7 Tricarbonyl[(5,6,7,8- η)-5,7,22-ergostatrien-3-ol]iron; (3 β ,22*E*)-*form*, Ac, *in* Fe-02048
- 12244-69-8 Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-00266
- 12244-91-6 [(Acetyloxy)methyl]dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, *in* Fe-00300
- 12245-09-9 Tricarbonyl[(1,2,3,4- η)-1,2,3,4-tetramethyl-1,3-cyclobutadiene]iron, Fe-00757
- 12245-44-2 Hexacarbonyl μ -[(1,2,3,4- η :1,4- η)-1,2,3,4-tetramethyl-1,3-butadiene-1,4-diyl]diiron, Fe-01184
- 12245-63-5 (1-Pyrrolidinylmethyl)ferrocene, Fe-01349
- 12247-96-0 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-2,4-cyclopentadien-1-yliron, Fe-00848
- 12248-70-3 1,1'-Di-2-pyridinylferrocene, Fe-01658
- 12256-92-7 Tricarbonyl[(3,4,5,6- η)-2*H*-pyran-2-one]iron, Fe-00253
- 12260-67-2 (1-Cyclopenten-1-yl)ferrocene, Fe-01341
- 12261-28-8 Ferrocenecarboxaldehyde; Oxime, α -*form*, *in* Fe-00708
- 12261-29-9 (Aminomethyl)ferrocene; B, HCl, *in* Fe-00767
- 12261-46-0 Ferrocenepropanoic acid, Fe-01078
- 12261-57-3 (4-Acetylphenyl)ferrocene, Fe-01558
- 12261-75-5 (Triphenylsilyl)ferrocene, Fe-01969
- 12276-28-7 Tricarbonyl[(2,3,4,5- η)-2,7-dimethyloxepin]iron, Fe-00723
- 12276-81-2 (Benzoxepin)tricarbonyliron, Fe-01007
- 12276-85-6 1-Acetyl-1'-cyanoferrocene, Fe-01037
- 12277-43-9 Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(dimethylphosphino)]diiron; *cis-form*, *in* Fe-01451
- 12277-44-0 Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(dimethylphosphino)]diiron; *trans-form*, *in* Fe-01451
- 12277-55-3 (2-Carboxy-4-isothiocyanatophenyl)ferrocene, Fe-01530
- 12277-78-0 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)diphenylboraneiron, Fe-01606
- 12281-90-2 Dicarbonyl[(1,2,3- η)-2-hexen-5-one-1-yl]nitrosyli-ron, Fe-00319
- 12282-27-8 (η^6 -Benzene)(η^5 -1-chloro-2,4-cyclopentadien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-00703
- 12282-28-9 (η^6 -Benzene)(η^5 -1-chloro-2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-00703
- 12282-29-0 (η^5 -1-Amino-2,4-cyclopentadien-1-yl)(η^6 -benzene)iron(1+); Tetrafluoroborate, *in* Fe-00750
- 12282-42-7 Tricarbonyl[(1,2,3,4- η)-spiro[4.4]nona-1,3-diene]iron, Fe-00906
- 12283-07-7 [5]Ferrocenophane, Fe-01345
- 12283-50-0 [1.1]Ferrocenophane-1,12-dione, Fe-01741
- 12283-76-0 Dicarbonyl[(3,4,5,6- η)-3,5-hexadien-2-one]-(triphenylphosphine)iron, Fe-01930
- 12284-11-6 1,2-Diferrocenyl-1,2-diphenylethylene; (*E*)-*form*, *in* Fe-02094
- 12284-19-4 2,3,4,5-Tetraferrocenyl-2,4-cyclopentadien-1-one, Fe-02171
- 12287-43-3 Tetracarbonyl[(2,3- η)-2-propenal]iron, Fe-00163
- 12287-46-6 Dicarbonyl(chloromercury)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00181
- 12287-49-9 (1,2,3- η)-2-Butenyltricarbonylchloroiron, Fe-00211
- 12287-51-3 Tricarbonyliodo[(1,2,3- η)-2-methyl-2-propenyl]iron, Fe-00215
- 12287-55-7 Tetracarbonyl[(3,4- η)-2,5-furandione]iron, *in* Fe-00254
- 12287-57-9 [(2,3- η)-2-Butene-1,4-dioic acid]tetracarbonyliron; (*Z*)-*form*, *in* Fe-00254
- 12287-58-0 [(2,3- η)-2-Butene-1,4-dioic acid]tetracarbonyliron, Fe-00254
- 12287-58-0 [(2,3- η)-2-Butene-1,4-dioic acid]tetracarbonyliron; (-)-(*E*)-*form*, *in* Fe-00254
- 12287-67-1 Tetracarbonyl[(2,3- η)-methyl 2-propenoate]iron, *in* Fe-00165
- 12287-82-0 Tetracarbonyl[(2,3- η)-2-propenoic acid]iron; ($\pm$)-*form*, Et ester, *in* Fe-00165
- 12287-95-5 1,2-Dichloroferrocene, Fe-00510
- 12287-97-7 [(2,3- η)-2-Butene-1,4-dioic acid]tetracarbonyliron; (*Z*)-*form*, Di-Me ester, *in* Fe-00254
- 12287-98-8 [(2,3- η)-2-Butene-1,4-dioic acid]tetracarbonyliron; (+)-(*E*)-*form*, Di-Me ester, *in* Fe-00254

12288-80-1	[(1,2,3,4,5,6- η)-Benzoato](η^5 -2,4-cyclopentadien-1-yl)iron(1+) compd. with HPF ₆ (1:1), <i>in</i> Fe-00883	12318-18-2	Tricarbonyl[(1,2,3,4- η)-1-methoxy-1,3-cyclohexadiene]iron, Fe-00584
12288-82-3	[(1,2,3,4,5,6- η)-Benzamide](η^5 -2,4-cyclopentadien-1-yl)iron(1+) hexafluorophosphate, <i>in</i> Fe-00883	12318-19-3	Tricarbonyl[(1,2,3,4- η)-2-methoxy-1,3-cyclohexadiene]iron, Fe-00585
12289-00-8	Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(pentafluorobenzenethiolato)iron, Fe-01003	12318-41-1	Tricarbonyl[(4,5,6,7- η)-1 <i>H</i> -1,2-diazepine-1-carboxylic acid]iron; Et ester, <i>in</i> Fe-00351
12289-46-2	1,1'-Bis(1-hydroxyethyl)ferrocene, Fe-01254	12320-80-8	1,3-Diferrocenyl-1,3-propanedione, Fe-01802
12289-78-0	1,1'-Bis(1-methylethenyl)ferrocene, Fe-01425	12321-31-2	1,1'-Bis(triphenylsilyl)ferrocene, Fe-02176
12290-98-1	Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-methyl(triphenyl phosphite- <i>P</i>)iron, Fe-01906	12336-73-1	Bis(η^5 -2,4-cyclopentadien-1-yl)-tetrakis(triphenyl phosphite- <i>P</i>)diiron, Fe-02205
12291-01-9	(Triphenylplumbyl)ferrocene, Fe-01968	12337-26-7	(Ruthenocenylethynyl)ferrocene, Fe-01751
12291-06-4	Tricarbonyl(1,3,5-cholestatien-7-one)iron, Fe-02017	12359-60-3	[(2,3,4,5- η)-1 <i>H</i> -Azepine-1-carboxylic acid]tricarbonyliron; Me ester, <i>in</i> Fe-00503
12295-56-6	1,1'-(Oxydiethylidene)ferrocene; (<i>RS,RS</i>)- <i>form</i> , <i>in</i> Fe-01226	12367-01-0	Hexadecacarbonyl- μ_4 -germanetetrayltetrairon, Fe-01371
12295-57-7	1,1'-(Oxydiethylidene)ferrocene; (<i>RS,SR</i>)- <i>form</i> , <i>in</i> Fe-01226	12367-02-1	Hexadecacarbonyl- μ_4 -plumbanetetrayltetrairon, Fe-01369
12296-35-4	Diferrocenylphenylmethylium(1+), Fe-01950	12375-24-5	Tridecacarbonyldihydroirontriruthenium, Fe-00998
12296-43-4	Triferrocenylmethylium(1+), Fe-02036	12375-24-5	Di- μ -carbonyldicarbonyldi- μ -hydrotris[μ_3 -(tricarbonylruthenio)]iron, Fe-00997
12300-31-1	Ferrocenemethanol; Benzoyl, <i>in</i> Fe-00752	12388-68-0	Octacarbonyl(tetracarbonyliron)diruthenium, Fe-00796
12300-49-1	(η^5 -2,4-Cyclopentadien-1-yl)[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]-iron, Fe-00232	12390-69-1	Tricarbonyl(η^4 -2-methylene-1,1-diphenyl-1,3-propanediyl)iron, Fe-01602
12301-30-3	(η^6 -Benzene)[(1,2,3,4,5- η)-2,4-cyclopentadien-1-yl carboxylic acid]iron(1+); Hexafluorophosphate, <i>in</i> Fe-00847	12402-44-7	1,3-Diferrocenylpropane, Fe-01807
12302-04-4	[3]Ferrocenophane, Fe-01067	12504-75-5	[1.1.1]Ferrocenophane, Fe-02082
12302-11-3	(1,3-Dioxobutyl)ferrocene, Fe-01206	12504-83-5	1,2-Diferrocenylethanone, Fe-01766
12302-58-8	Bis[(7,8,9,10,11- η)-1,2,3,4,5,6,8,9,10,11-decahydro-7-phenyl-7,8-dicarbaundecaborato(2-)]ferrate(1-); Tetramethylammonium salt, <i>in</i> Fe-01463	12504-84-6	1,2-Diferrocenyl-1,3-cyclopentadiene, Fe-01901
12304-95-9	Bis[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]ferrate(1-); Tetramethylammonium salt, <i>in</i> Fe-00060	12504-91-5	1,1'':2'',1''''-Terferrocene, Fe-02007
12304-97-1	Bis[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]ferrate(1-); Cs salt, <i>in</i> Fe-00060	12518-87-5	Heptanitrosyltri- μ_3 -thioxotetraferrate(1-), Fe-02222
12306-68-2	Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)dichloroboraneiron, Fe-00169	12524-76-4	[4][4](1,3)Ferrocenophane-2-one, Fe-01574
12306-92-2	Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadien-1-one]iron, Fe-00355	12524-79-7	[4][4](1,3)Ferrocenophane, Fe-01576
12306-93-3	Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadien-1-ol]iron, Fe-00399	12556-11-5	Heptanitrosyltri- μ_3 -thioxotetraferrate(1-); Tetraethylammonium salt, <i>in</i> Fe-02222
12307-01-6	[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-dien-7-one]tricarbonyliron, <i>in</i> Fe-00530	12556-51-3	Bis[(7,8,9,10,11- η)-1,2,3,4,5,6,9,10,11-nonahydro-7,8-dimethyl-7,8-dicarbaundecaborato(2-)]ferrate(1-); Tetramethylammonium salt, <i>in</i> Fe-00328
12307-04-9	Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadiene-1-carbonitrile]iron, Fe-00502	12559-94-3	Tricarbonyl[(1,6,7,1'- η)-7-methylene-1,3,5-cycloheptatriene]iron, Fe-00677
12307-07-2	[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene]tricarbonyliron, Fe-00524	12560-38-2	Dodecacarbonylironosmium, Fe-00795
12307-11-8	Tricarbonyl[(1,2,3,4,5- η)-2-methyl-2,4-cyclohexadien-1-yl]iron(1+); Tetrafluoroborate, <i>in</i> Fe-00559	12563-74-5	Di- μ -carbonylnonacarbonyl(dicarbonyliron)di- μ -hydrotriosmium, Fe-00996
12307-12-9	Tricarbonyl[(1,2,3,4,5- η)-2-methyl-2,4-cyclohexadien-1-yl]iron(1+); Hexafluorophosphate, <i>in</i> Fe-00559	12570-83-1	Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1-trimethylsilyl-2,4-cyclopentadien-1-yl]diiron, Fe-01687
12307-19-6	Tricarbonyl[(1,2,3,4- η)-1-methyl-1,3-cyclohexadiene]iron, Fe-00577	12637-02-4	Triferrocenylboron, Fe-02009
12307-20-9	Tricarbonyl[(1,2,3,4- η)-2-methyl-1,3-cyclohexadiene]iron, Fe-00578	12766-56-2	1,2-Diacetylferrocene, Fe-01204
12307-21-0	Tricarbonyl[(1,2,3,4- η)-5-methoxy-1,3-cyclohexadiene]iron, Fe-00586	12791-65-0	Tetra- μ_3 -carbonyltetrakis(η^5 -2,4-cyclopentadien-1-yl)tetrairon(1+); Hexafluorophosphate, <i>in</i> Fe-01839
12308-30-4	Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(phenylethynyl)iron, Fe-01297	12793-17-8	Tetra- μ_3 -carbonyltetrakis(η^5 -2,4-cyclopentadien-1-yl)tetraferrate(1-), Fe-01837
12309-34-1	2,5-Diferrocenylfuran, Fe-01830	13463-40-6	▷Iron carbonyl, Fe-00069
12309-62-5	Triferrocenylsilanol, Fe-02014	13682-74-1	Dicarbonyldinitrosyliron, Fe-00007
12310-13-3	1-Ferrocenyl-2-phenyl-1,2-ethanedione, Fe-01538	13755-38-9	▷Sodium nitroferrocyanide, <i>in</i> Fe-00066
12313-22-3	Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(phenylethynyl)(triphenylphosphine)iron, Fe-02064	13815-34-4	Pentakis(phosphorous trifluoride)iron, Fe-02215
12317-59-8	Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(thiocyanato- <i>S</i>)iron, Fe-00260	13926-74-4	Carbonyldinitrosyl(triphenylstibine)iron, Fe-01615
12317-60-1	Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(thiocyanato- <i>N</i>)iron, Fe-00259	13926-75-5	Carbonyldinitrosyl(triphenyl phosphite- <i>P</i>)iron, Fe-01616
12317-64-5	[(1,2- η)-1,3-Butadiene]tetracarbonyliron, Fe-00270	14056-98-5	Dinitrosylbis(triphenylphosphine)iron, Fe-02112
		14126-29-5	Dinitrosylbis(triphenylarsine)iron, Fe-02108
		14243-23-3	Hexacarbonyldithioxodiiron, Fe-00099
		14263-11-7	Bis(dimethylcarbomodithioato- <i>S,S'</i>)nitrosyliron, Fe-00140
		14318-90-2	Bromodinitrosyl(triphenylphosphine)iron, Fe-01549
		14375-84-9	Tetracarbonyl(triphenylarsine)iron, Fe-01735
		14375-85-0	Tricarbonylbis(triphenylarsine)iron, Fe-02143
		14375-86-1	Tricarbonylbis(triphenylstibine)iron, Fe-02146
		14405-49-3	Tris(1,3-diphenyl-1,3-propanedionato- <i>O,O'</i>)iron, Fe-02170
		14465-62-4	▷Tetracarbonyldisilyliron; <i>cis-form</i> , <i>in</i> Fe-00052

- 14552-89-7 Tetracarbonylbis(triphenylstannyl)iron, Fe-02154
 14588-79-5 Iododinitrosyl(triphenylphosphine)iron, Fe-01553
 14591-53-8 Carbonyldinitrosyl(triphenylphosphine)iron, Fe-01614
 14741-34-5 ▶ Tricarbonylbis(triphenylphosphine)iron, Fe-02145
 14767-45-4 Carbonyldinitrosyl(triphenylarsine)iron, Fe-01604
 14767-99-8 Dicarboxyltris(trimethyl phosphite-*P*)iron, Fe-00793
 14871-43-3 Hexacarbonylbis[μ -(dimethylphosphino)]diiron, Fe-00626
 14873-17-7 Hexakis(isocyanomethane)iron(2+); Dichloride, *in* Fe-00972
 14875-41-3 Tetracarbonylbis(1,1,2,2-tetrafluoroethyl)iron; *cis*-form, *in* Fe-00247
 14878-30-9 Tetracarbonyldiiodoiron, Fe-00039
 14878-31-0 Tetracarbonylferrate(2-); Di-Na salt, *in* Fe-00040
 14878-71-8 Tetracarbonyl(trimethyl phosphite-*P*)iron, Fe-00225
 14878-96-7 Hexacarbonylbis[μ -(methanethiolato)]diiron, Fe-00281
 14881-58-4 Tricarbonyl[1,2-ethanediylbis[diphenylphosphine]-*P,P'*]iron, Fe-01989
 14911-55-8 Tetracarbonyldiiodoiron; *cis*-form, *in* Fe-00039
 14917-04-5 Bis[μ -(diphenylphosphino)]tetranitrosyldiiron, Fe-01829
 14949-85-0 Tricarbonylbis(trimethyl phosphite-*P*)iron, Fe-00467
 14972-71-5 Chlorotrinitrosyliron, Fe-02206
 15020-24-3 Tricarbonylnitrosylferrate(1-), Fe-00017
 15020-30-1 Dinitrosylbis(phosphorous trifluoride)iron, Fe-02209
 15020-31-2 Dibromodicarbonylbis(triphenylphosphine)iron, Fe-02132
 15025-89-5 Bis(μ -ethaneselenolato)tetranitrosyldiiron, Fe-00055
 15078-01-0 Tetracarbonyl(triethylphosphine)iron, Fe-00638
 15078-28-1 Pentakis(cyano-*C*)nitrosylferrate(2-), Fe-00066
 15096-22-7 Tetracarbonyl(1,1,2,3,4,4-hexafluoro-2-butene-1,4-diyl)iron, Fe-00238
 15281-78-4 Bis(bromomercurio)tetracarbonyliron, Fe-00028
 15281-84-2 Tetracarbonylbis(chloromercury)iron, Fe-00030
 15308-59-5 Tricarbonyl[1,2-phenylenebis(dimethylarsine)-*As,As'*]iron, Fe-01090
 15321-51-4 Nonacarbonyldiiron, Fe-00334
 15334-26-6 Di(cyano-*C*)tetrakis(isocyanomethane)iron; *trans*-form, *in* Fe-00618
 15334-51-7 Di(cyano-*C*)tetrakis(isocyanomethane)iron; *cis*-form, *in* Fe-00618
 15376-93-9 Tetracarbonylbis(trimethylstannyl)iron, Fe-00646
 15388-85-9 Dibromotricarbonyl(triphenyl phosphite-*P*)iron, Fe-01702
 15389-53-4 Nitrosyltris(phosphorous trifluoride)ferrate(1-); K salt, *in* Fe-02211
 15525-09-4 Hexacarbonylbis[μ -(dimethylarsino)]diiron, Fe-00612
 15525-76-5 Octacarbonyl(μ -diphenylvinylidene)diiron, Fe-01733
 15526-65-5 Tricarbonylbis(triphenyl phosphite-*P*)iron, Fe-02147
 15529-75-6 Hexadecacarbonyl- μ_4 -stannanetetrayltetrairon, Fe-01370
 15602-77-4 Tetracarbonyl[(2,3- η)-2-propenenitrile]iron, Fe-00154
 15615-58-4 Octacarbonylbis[μ -(dimethylstannylene)]diiron, Fe-00917
 15616-56-5 Tetracarbonyldiiodoiron; *trans*-form, *in* Fe-00039
 15627-18-6 Bis[μ -(bis(pentafluorophenyl)phosphino)]hexacarbonyldiiron, Fe-01998
 15627-21-1 Bis(2,2'-bipyridine)diethyliron, Fe-01851
 15634-63-6 Bis[μ -(benzenethiolato)]hexacarbonyldiiron, Fe-01521
 15651-58-8 Tricarbonyl[*N,N'*-(1,2-dimethyl-1,2-ethanediylidene)]bis[benzenamine]-*N,N'*]iron, Fe-01621
 15668-57-2 Tetracarbonylbis(pentacarbonylmanganio)iron, Fe-01130
 15683-28-0 [1,2-Ethanediylbis[diphenylphosphine]-*P,P'*]dinitrosyliron, Fe-01933
 15691-74-4 Dicarboxyldiiodobis(trimethylphosphine)iron; *ab*-dicarbonyl-*ce*-diiodo-*df*-diphosphine-form, *in* Fe-00325
 15696-30-7 Di- μ -bromotetranitrosyldiiron, Fe-00002
 15696-36-3 Bis(μ -ethanethiolato)tetranitrosyldiiron, Fe-00054
 15696-38-5 Bis(μ -benzenethiolato)tetranitrosyldiiron, Fe-00869
 15739-18-1 Dicarboxyltris(triphenylphosphine)iron, Fe-02194
 15748-39-7 (η^4 -1,3-Butadiene)-dicarbonyl(triphenylphosphine)iron, Fe-01842
 15751-09-4 Octacarbonylbis[μ -(dimethylgermylene)]diiron, Fe-00912
 16027-25-1 Tetracarbonylbis[(triphenylphosphine)aurio]iron; *cis*-form, *in* Fe-02151
 16040-31-6 Tetracarbonylbis(pentacarbonylrhenio)iron, Fe-01131
 16071-96-8 ▶ Bis(μ -methanethiolato)tetranitrosyldiiron, Fe-00009
 16165-06-3 Tetracarbonyl[(1-cycloheptene-1,2-diyl)-dicarbonyl]iron, Fe-01032
 16182-63-1 Tetracarbonylferrate(2-); Di-K salt, *in* Fe-00040
 16388-45-7 Carbonyltetrakis(phosphorous trifluoride-*P*)iron, Fe-00003
 16388-47-9 Tetracarbonyl(phosphorous trifluoride)iron, Fe-00036
 16388-48-0 Tetracarbonyl(phosphorous trichloride)iron, Fe-00032
 17455-63-9 Hexakis(isocyanomethane)iron(2+), Fe-00972
 17594-26-2 Dicarboxyltris(phosphorous trifluoride)iron, Fe-00006
 17595-21-0 Tetracarbonyl(isocyanobenzene)iron, Fe-00658
 17769-83-4 Acetyldicarbonylnitrosyl(triphenylphosphine)iron, Fe-01749
 17769-87-8 Dicarboxyl(cyanomethyl)-nitrosyl(triphenylphosphine)iron, Fe-01742
 17786-26-4 Benzoyldicarbonylnitrosyl(triphenylphosphine)iron, Fe-01946
 18116-52-4 Tetracarbonyl(phosphine)iron, Fe-00044
 18223-39-7 Dodecacarbonylbis(μ -methanethiolato)- μ_4 -thioxotetrairon, Fe-01143
 18372-97-9 Tetracarbonylbis(trimethylstannyl)iron; *cis*-form, *in* Fe-00646
 18399-66-1 Tetracarbonyl(diphenylphosphine)iron, Fe-01382
 18474-82-3 Tetracarbonyl(tributylphosphine)iron, Fe-01461
 18475-02-0 Tetracarbonyl(trimethylphosphine)iron, Fe-00223
 18475-06-4 Tetracarbonyl(triphenyl phosphite-*P*)iron, Fe-01738
 18475-84-8 Dibromotetracarbonyliron, Fe-00029
 18533-27-2 Tetracarbonylbis(triethylplumbyl)iron; *cis*-form, *in* Fe-01464
 18533-29-4 Tricarbonylbis(triethylphosphine)iron; *trans*-form, *in* Fe-01361
 18716-80-8 Tetracarbonylhydroferrate(1-), Fe-00042
 18716-94-4 Hexacarbonyl[μ -(*N*-phenyl-1,2-benzenediaminato(2-))]diiron, Fe-01518
 18771-08-9 Bis(benzylthiolato)hexacarbonyldiiron, Fe-01653
 18890-46-5 Bis(μ -anilinato)hexacarbonyldiiron, Fe-01525
 18989-05-4 Hexacarbonyl[μ -(1,2-diphenylhydrazinato(2-))]diiron, Fe-01517
 19033-83-1 Hydronitrosyltris(phosphorus trifluoride)iron; *trans*-form, *in* Fe-02210
 19194-19-5 (Carbon disulfide)tetracarbonyliron, Fe-00068
 19195-91-6 Dicarboxyltris(trimethyl phosphite-*P*)iron; *cis*-form, *in* Fe-00793
 19392-93-9 Chlorobis[1,2-ethanediylbis[diphenylphosphine]-*P,P'*]hydroiron; *trans*-form, *in* Fe-02190
 19440-75-6 Bis[μ_3 -(benzophenone hydrazone(2-))]nonacarbonyltriiron, Fe-02100
 19457-84-2 Tricarbonylbis(trimethyl phosphite-*P*)iron; *trans*-form, *in* Fe-00467
 19543-98-7 Dichlorobis(triphenylphosphine)iron, Fe-02110
 19543-99-8 Dibromobis(triphenylphosphine)iron, Fe-02109
 19544-00-4 Diiodobis(triphenylphosphine)iron, Fe-02111
 19599-68-9 Hexacarbonylbis[μ -(diphenylphosphino)]diiron, Fe-02000
 19601-38-8 Tetracarbonylbis(trichlorogermyl)iron; *cis*-form, *in* Fe-00033
 19601-39-9 Tetracarbonylbis(trichlorogermyl)iron; *trans*-form, *in* Fe-00033

19601-41-3	Tetracarbonylbis(trichlorostannyl)iron; <i>cis</i> -form, in Fe-00035	23131-33-1	Dinitrosylbis(trimethyl phosphite- <i>P</i>)iron, Fe-00143
19601-42-4	Tetracarbonylbis(trichlorostannyl)iron; <i>trans</i> -form, in Fe-00035	23254-21-9	μ -Carbonyldecacarbonyl- μ -hydrotriferrate(1-); Bis(triphenylphosphine)iminium salt, in Fe-00653
19610-82-3	Di- μ -carbonylhexacarbonyl(1,2,3,4-tetraphenyl-1,3-butadiene-1,4-diyl)triiron, Fe-02106	23389-07-3	Nonacarbonylbis[μ_3 -[methanaminate(2-)]]triiron, Fe-00664
19632-60-1	Tetracarbonylbis(trichlorosilyl)iron; <i>trans</i> -form, in Fe-00034	23540-33-2	Tricarbonylbis(tributylphosphine)iron, Fe-01957
19705-87-4	Di- μ -amidohexacarbonyldiiron, Fe-00116	23540-34-3	Dicarbonyldichlorobis(trimethylphosphine)iron, Fe-00324
19976-87-5	Hexacarbonylbis[μ -(methanethiolato)]diiron; <i>cis</i> -form, in Fe-00281	23606-88-4	Dicarbonyl[ethylenebis(diphenylphosphine)]-(heptafluoropropyl)iodoiron, Fe-02031
19976-88-6	Hexacarbonylbis[μ -(methanethiolato)]diiron; <i>trans</i> -form, in Fe-00281	24980-89-0	Tetracarbonylmercurioiron, Fe-00038
20468-10-4	Hexacarbonyltris[μ -(dimethylgermylene)]diiron, Fe-00971	25036-91-3	Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-iodo(isocyanomethane)iron, Fe-00295
20468-34-2	Tetracarbonyl(di- μ -carbonylhexacarbonyldiiron-ruthenium, Fe-00799	25154-64-7	Dibenzyltetracarbonyliron, Fe-01542
20516-72-7	Tricarbonylbis(triphenylarsine)iron; <i>trans</i> -form, in Fe-02143	25463-33-6	Octacarbonyldiferrate(2-), Fe-00244
20516-73-8	Tricarbonylbis(triphenylstibine)iron; <i>trans</i> -form, in Fe-02146	25463-34-7	Di- μ_3 -carbonylnonacarbonyltriferrate(2-), Fe-00652
20516-74-9	Tricarbonylbis(triphenyl phosphite- <i>P</i>)iron; <i>trans</i> -form, in Fe-02147	25463-35-8	μ_3 -Carbonyldodecacarbonylhydrotetrafferrate(1-), Fe-00993
20516-78-3	Tetracarbonyl(triphenylstibine)iron, Fe-01737	25657-41-4	Cyanodinitrosyl(triphenylphosphine)iron, Fe-01617
20528-31-8	Tricarbonyltriiodoferrate(1-); Tetraethylammonium salt, in Fe-00016	25767-85-5	Tri- μ -carbonyldecacarbonyltetrafferrate(2-), Fe-00989
20861-42-1	Di- μ -carbonylnonacarbonyl(triphenylphosphine)triiron, Fe-01981	25840-05-5	Hexacarbonyl[μ -{ <i>o</i> -phenylenediaminato(2-)}]diiron, Fe-00817
20909-66-4	Bis[μ -[bis(pentafluorophenyl)arsino]]hexacarbonyldiiron, Fe-01997	25875-18-7	Tricarbonylnitrosylferrate(1-); Na salt, in Fe-00017
20935-93-7	Hexacarbonyl[μ -[<i>N,N'</i> -diphenylureato(2-)- <i>N,N':N,N'</i>]]diiron, Fe-01593	25875-19-8	Tricarbonylnitrosylferrate(1-); K salt, in Fe-00017
20960-30-9	Di- μ -carbonylhexacarbonyl- μ -hydrodiferrate(1-), Fe-00246	25879-68-9	Hexacarbonylbis[μ -(pentafluorobenzenetelluroolato)]diiron, Fe-01514
21077-63-4	Hexacarbonyl[μ -[(thionitroso)benzene]]diiron, Fe-00812	25921-46-4	Tetracarbonyl(trimethylarsine)iron, Fe-00221
21157-92-6	Bis(μ -benzophenone hydrazonato)hexacarbonyldiiron, Fe-02058	25921-55-5	Tricarbonylbis(trimethylphosphine)iron, Fe-00465
21255-52-7	Tricarbonylbis(triphenylphosphine)iron; <i>trans</i> -form, in Fe-02145	25930-04-5	Hexacarbonylbis[μ -(pentafluorobenzeneselenolato)]diiron, Fe-01513
21374-46-9	Dicarbonylnitrosylbis(triphenylphosphine)iron(1+); Tetrafluoroborate, in Fe-02136	25987-99-9	Bis[μ -(benzeneselenolato)]hexacarbonyldiiron, Fe-01522
21374-47-0	Dicarbonylnitrosylbis(triphenylphosphine)iron(1+); Hexafluorophosphate, in Fe-02136	26024-88-4	Octacarbonyldiferrate(2-); Bis(tetraethylammonium) salt, in Fe-00244
21475-90-1	Tetracarbonyldichloroiron, Fe-00031	26024-89-5	Tri- μ -carbonyldecacarbonyltetrafferrate(2-); Bis-(tetraethylammonium) salt, in Fe-00989
21494-31-5	Carbonyldinitrosyl(trimethyl phosphite- <i>P</i>)iron, Fe-00053	26025-16-1	μ -Carbonylhexacarbonylbis[μ -(difluoromethylene)]-diiron, Fe-00330
21494-36-0	Tetracarbonyl(triethyl phosphite- <i>P</i>)iron, Fe-00639	26062-33-9	Di- μ -carbonylhexacarbonyl- μ -hydrodiferrate(1-); Tetraethylammonium salt, in Fe-00246
21576-91-0	Di- μ -chlorotetranitrosyldiiron, Fe-02208	26201-18-3	μ -Carbonylhexacarbonylbis[μ -(diphenylgermylene)]-diiron, Fe-02028
21729-52-2	Bis[μ -[bis(trifluoromethyl)phosphino]]hexacarbonyldiiron, Fe-00475	26201-82-1	Hexakis(1-isocyano-4-methylbenzene)iron(2+); Bis-(tetraphenylborate), in Fe-02183
21747-16-0	Hexacarbonylbis[μ -(pentafluorobenzenethiolato)]-diiron, Fe-01512	26469-80-7	Tetracarbonyldisilyliron, Fe-00052
21868-08-6	Tetracarbonylbis(triphenylstannyl)iron; <i>cis</i> -form, in Fe-02154	26601-52-5	[μ -[2-Aminobenzenethiolato(2-)- <i>N,S:N,S</i>]]hexacarbonyldiiron, Fe-00811
22043-91-0	Tetracarbonyl(cyano- <i>C</i>)ferrate(1-); Bis(triphenylphosphine)iminium salt, in Fe-00065	26814-32-4	Hexacarbonyl[μ -[1,2-dimethylhydrazinato(2-)]]-diiron, Fe-00280
22087-95-2	(Dinitrogen)tris(ethyldiphenylphosphine)dihydroiron, Fe-02162	27081-59-0	[μ -(5,6-Dihydrobenzo[<i>c</i>]cinnolino- <i>N</i> ⁵ , <i>N</i> ⁶ : <i>N</i> ⁵ , <i>N</i> ⁶)]-hexacarbonyldiiron, Fe-01515
22309-04-2	Nonacarbonyldi- μ_3 -thioxotriiron, Fe-00336	27658-68-0	Tetracarbonyl(1,1,2,2,3,3,4,4-octafluoro-1,4-butanediyl)iron, Fe-00242
22321-35-3	Tetracarbonylferrate(2-), Fe-00040	27658-72-6	Tetracarbonyl(tetrafluoroethylene)iron, Fe-00092
22533-09-1	[μ -[1,3-Dimethylureato(2-)]]hexacarbonyldiiron, Fe-00362	27658-75-9	Dicarbonyl(octafluorotetramethylene)-bis(triethyl phosphite)iron, Fe-01590
22587-69-5	Nonacarbonyldi- μ_3 -selenoxotriiron, Fe-00337	27776-74-5	Tricarbonylnitrosyl(trichlorostannyl)iron, Fe-00013
22587-70-8	Nonacarbonyldi- μ_3 -telluroxotriiron, Fe-00338	27906-63-4	Tetrakis(phosphorous trifluoride)ferrate(2-); Di-K salt, in Fe-02214
22602-47-7	Tricarbonylbis(triethyl phosphite- <i>P</i>)iron, Fe-01362	28042-06-0	Tetracarbonyl[(2,3- η)-2-propenoic acid]iron; (2 <i>S</i>)-form, in Fe-00165
22602-47-7	Tricarbonylbis(triethyl phosphite- <i>P</i>)iron; <i>trans</i> -form, in Fe-01362	28375-80-6	(Bromomercurio)tricarbonylnitrosyliron, Fe-00010
22624-27-7	Tricarbonyldiiodo(trimethylphosphine)iron; <i>abc</i> -tricarbonyl- <i>de</i> -diiodo- <i>f</i> -phosphine-form, in Fe-00136	28375-81-7	Tricarbonyl(iodomercurio)nitrosyliron, Fe-00015
22624-30-2	Dibromodicarbonylbis(trimethylphosphine)iron, Fe-00323	28407-13-8	Tricarbonyl(chloromercurio)nitrosyliron, Fe-00011
22763-20-8	Tetracarbonyldihydroiron; <i>cis</i> -form, in Fe-00043	28411-05-4	Hexacarbonyl(mercury)dinitrosyldiiron, Fe-00096
22925-82-2	Tetracarbonyl(heptafluoropropyl)iodoiron, Fe-00144	28411-09-8	Tetracarbonyl(mercury)-dinitrosylbis(triphenylphosphine)diiron, Fe-02155
23087-61-8	Bis[μ -(benzylidyneoxy)]hexacarbonyldiiron, Fe-01647		

- 28755-87-5 Dihydrotetrakis(triethyl phosphite-*P*)iron; *cis-form*, in Fe-01862
- 28855-53-0 Dinitrosyl(2,4-pentanedionato)iron, Fe-00087
- 28939-17-5 Dinitrosyl(pentacarbonylmanganio)-(triphenylphosphine)iron, Fe-01784
- 29132-22-7 Decacarbonyl[μ -[(dimethylamino)methylidyne]]- μ -hydrotriiron, Fe-01005
- 29160-38-1 Octacarbonyl[μ -(3,4,5,6-tetrafluoro-1,2-phenylene)]diiron, Fe-01128
- 29160-41-6 Bis[μ -(methylidyneoxy)]hexacarbonyldiiron, Fe-00498
- 29567-74-6 Acetyltetracarbonylferrate(1-); Tetramethylammonium salt, in Fe-00108
- 29660-80-8 Tetracarbonylbis(trichlorosilyl)iron; *cis-form*, in Fe-00034
- 29689-97-2 Hexacarbonylbis[μ -[*N*-hydroxybenzenaminato(2-)-*N:N,O*]]diiron, Fe-01519
- 29845-14-5 Dicarbonyldiiodobis(phosphine)iron, Fe-00008
- 29863-43-2 Tetracarbonyl(trimethylamine)iron, Fe-00222
- 29889-95-0 Octacarbonylbis[μ -(diphenylstannylene)]diiron, Fe-02056
- 29889-98-3 Octacarbonylbis[μ -(dimethylplumbylene)]diiron, Fe-00915
- 29917-20-2 Tetracarbonylbis(methylmercurio)iron, Fe-00130
- 30003-60-2 Tricarbonyldiiodo(phosphine)iron, Fe-00022
- 30230-15-0 Tetracarbonyl(trimethylstibine)iron, Fe-00224
- 30230-16-1 Tricarbonylbis(trimethylphosphine)iron; *trans-form*, in Fe-00465
- 30230-17-2 Tricarbonylbis(trimethylarsine)iron; *trans-form*, in Fe-00463
- 30230-18-3 Tricarbonylbis(trimethylstibine)iron; *trans-form*, in Fe-00466
- 31177-49-8 Iododinitrosyl(triphenylarsine)iron, Fe-01548
- 31178-45-7 Hexacarbonyl[μ -[1,3,5-triphenyl-2-pentene-1,5-diiminato(2-)-*N,N':N,N'*]]diiron, Fe-01985
- 31274-91-6 Tetracarbonyl(isocyanomethane)iron, Fe-00107
- 31275-36-2 Tricarbonylnitrosyl(trimethylplumbyl)iron, Fe-00137
- 31275-37-3 Tricarbonylnitrosyl(trichlorogermyl)iron, Fe-00012
- 31275-44-2 Dicarbonylnitrosyl(triphenylphosphine)-(triphenylstannyl)iron, Fe-02135
- 31276-14-9 Tricarbonylnitrosyl(triphenylgermyl)iron, Fe-01703
- 31276-15-0 Tricarbonylnitrosyl(triphenylstannyl)iron, Fe-01707
- 31276-16-1 Tricarbonylnitrosyl(triphenylplumbyl)iron, Fe-01706
- 31276-17-2 Dicarbonylnitrosyl(triphenylgermyl)(triphenyl phosphite-*P*)iron, Fe-02134
- 31276-18-3 Dicarbonylnitrosyl(triphenyl phosphite-*P*)(triphenylstannyl)iron, Fe-02138
- 31276-19-4 Dicarbonylnitrosyl(triphenyl phosphite-*P*)(triphenylplumbyl)iron, Fe-02137
- 31276-22-9 Dodecacarbonyltetranitrosyl- μ_4 -stannanetetrayl-*te*-iron, Fe-00803
- 31388-53-1 Tetracarbonyl[*N,N*-dimethylboranaminato(2-)-*B*]-iron, Fe-00127
- 31392-54-8 Bis(isocyanomethane)dinitrosyliron, Fe-00051
- 31392-55-9 Bis(isocyanobenzene)dinitrosyliron, Fe-01148
- 31470-98-1 Tricarbonyldiiodo(isocyanomethane)iron, Fe-00072
- 31470-99-2 Dicarbonyldiiodobis(isocyanomethane)iron, Fe-00131
- 31471-00-8 Tricarbonylbis(isocyanomethane)iron, Fe-00198
- 31494-68-5 Tetracarbonyl[(2,3- η)-1,1,1,4,4,4-hexafluoro-2,3-bis(trifluoromethyl)-2-butene]iron, Fe-00474
- 31659-17-3 Octacarbonyl- μ -sulfonyldiiron, Fe-00245
- 31666-55-4 Bis[(1,2,3,4,5,6- η)-1,3,5-trimethylbenzene]iron(2+); Bis(hexafluorophosphate), in Fe-01580
- 31725-05-0 Pentacarbonyl(ferrocenylmethoxymethylene)chromium, Fe-01473
- 31725-14-1 (1-Methylethenyl)ferrocene, Fe-01068
- 31741-56-7 Tricarbonyl[(1,2,3,4- η)-2,3-dimethyl-1,3-butadiene]iron, Fe-00430
- 31741-58-9 Bromocarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trimethyl phosphite-*P*)iron, Fe-00456
- 31741-63-6 Carbonylchloro(η^5 -2,4-cyclopentadien-1-yl)-(trimethyl phosphite-*P*)iron, Fe-00458
- 31760-79-9 1-Amino-2-methylferrocene; (1*R*)-*form*, in Fe-00768
- 31761-05-4 1,1',3,3'-Tetrakis(trimethylsilyl)ferrocene, Fe-01781
- 31781-22-3 Tricarbonyl(phenylcyclobutadiene)iron, Fe-01006
- 31781-34-7 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-iodo(triphenylarsine)iron, Fe-01819
- 31781-41-6 Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetraphenylborate, in Fe-00266
- 31781-49-4 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trimethyl phosphite-*P*)iron(1+); Tetraphenylborate, in Fe-00636
- 31781-71-2 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-iodo(trimethyl phosphite-*P*)iron, Fe-00460
- 31781-84-7 1-Acetyl-1'-benzoylferrocene, Fe-01624
- 31798-65-9 Tetracarbonyl[(2,3- η)-3-phenyl-2-propenoic acid]iron; Me ester, in Fe-01009
- 31811-15-1 Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-2-ol]iron; (2*RS*,3*RS*)-*form*, in Fe-00624
- 31811-20-8 Dichloroferrocenyl(pyridine)boron, in Fe-00543
- 31811-33-3 Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-2-one]iron; ($\pm$)*syn*-Me, *anti*-Ac-*form*, in Fe-00583
- 31811-44-6 Carbonyliodo[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](trimethyl phosphite-*P*)iron, Fe-00641
- 31811-48-0 Carbonylchloro[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](trimethyl phosphite)iron, Fe-00640
- 31811-56-0 Tricarbonyl(1,2,3,4-tetraphenyl-1,3-cyclobutadiene)iron, Fe-02026
- 31811-63-9 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trimethylsilyl)iron, Fe-00634
- 31811-87-7 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methylsulfonyl)(triphenylphosphine)iron, Fe-01905
- 31852-03-6 1-Chloro-2-methylferrocene, Fe-00732
- 31868-87-8 1,1'-(1,2-Ethanediy)ferrocene, Fe-00891
- 31869-27-9 (1-Aminoethyl)ferrocene; (*S*)-*form*, in Fe-00954
- 31870-70-9 (Azidomethyl)ferrocene, Fe-00740
- 31884-28-3 [4]Ferrocenophan-1-one, Fe-01199
- 31886-57-4 [1-(Dimethylamino)ethyl]ferrocene; (*S*)-*form*, in Fe-01260
- 31886-58-5 [1-(Dimethylamino)ethyl]ferrocene; (*R*)-*form*, in Fe-01260
- 31904-34-4 [1-(Dimethylamino)ethyl]ferrocene; ($\pm$)-*form*, in Fe-01260
- 31922-32-4 Tricarbonyl(η^4 -2,4-dichloro-1,3-butadiene)iron, Fe-00158
- 31975-68-5 [(2,3,4,5- η)-Bicyclo[4.2.0]octa-2,4-diene]tricarbonyliron, Fe-00712
- 31975-95-8 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-iodo(triphenylstibine)iron, Fe-01827
- 31985-36-1 1-Carboxy-2-phenylferrocene, Fe-01483
- 31988-04-2 Carbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-iodo(trimethyl phosphite-*P*)iron, Fe-00786
- 31988-05-3 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-iodo(triphenyl phosphite-*P*)iron, Fe-01828
- 32005-37-1 Carbonylcarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)ferrate(1-); Menthyl ester, in Fe-01889
- 32005-39-3 Carbonyliodo[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](triphenylarsine)iron, Fe-01892
- 32007-87-7 Dichloroborylferrocene, Fe-00543
- 32007-89-9 Bromocarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](triphenyl phosphite-*P*)iron, Fe-01894
- 32010-96-1 Carbonyliodo[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](triphenyl phosphite)iron, Fe-01900
- 32028-30-1 Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]diiron, Fe-01409
- 32054-63-0 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trimethylgermyl)iron, Fe-00630

- 32054-65-2 Carbonylchloro(η^5 -2,4-cyclopentadien-1-yl)-(triphenyl phosphite-*P*)iron, Fe-01896
- 32054-66-3 Carbonyliodo[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl](triphenylphosphine)iron, Fe-01898
- 32216-11-8 Hexacarbonyl[μ -[(1,2,3,4- η)-1,4- η]-1,4-dihydroxy-1,3-butadiene-1,4-diyl]]diiron; Di-Me ether, *in* Fe-00483
- 32218-90-9 Ferrocenesulfonic acid, Fe-00580
- 32218-91-0 1,1'-Ferrocenedisulfonic acid, Fe-00589
- 32354-42-0 Tricarbonyl[(2,3,4,5- η)-tricyclo[4.3.1.0^{1,6}]-deca-2,4-diene]iron, Fe-01057
- 32457-60-6 Tetracarbonyl(di- μ -carbonylhexacarbonyldiiron)osmium, Fe-00798
- 32458-92-7 Tetracarbonyl(zinc)iron, Fe-00041
- 32490-70-3 Chlorobis[1,2-ethanediybis(diphenylphosphine)-*P,P'*]hydroiron, Fe-02190
- 32491-57-9 μ -Carbonylhexacarbonylbis[μ -(dimethylsilylene)]-diiron, Fe-00764
- 32609-79-3 1,1'-Bis(diphenylarsino)ferrocene, Fe-02091
- 32610-32-5 Bromo(η^5 -2,4-cyclopentadien-1-yl)-bis(isocyanobenzene)iron, Fe-01607
- 32610-51-8 Tricarbonyl[(1,2,3,4- η)-1,2-dimethyl-1,3-cyclobutadiene]iron, Fe-00391
- 32611-17-9 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(1-ethoxyethylidene)(triphenylphosphine)iron-(1+); ($\pm$)-*form*, Tetrafluoroborate, *in* Fe-01972
- 32611-33-9 Dicarbonyl- π -cyclopentadienyliisopropyliron, Fe-00620
- 32611-65-7 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ethyliron, Fe-00427
- 32614-25-8 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron(1+); Tetrafluoroborate, *in* Fe-01880
- 32614-27-0 Carbonyl(cyanato-*N*)(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01873
- 32626-58-7 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)iron(1+), Fe-01880
- 32626-63-4 (2-Cyanoethenyl)ferrocene; (*E*)-*form*, *in* Fe-01036
- 32626-64-5 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-iodo(isocyanobenzene)iron, Fe-01014
- 32626-65-6 (η^5 -2,4-Cyclopentadien-1-yl)-iodobis(isocyanomethane)iron, Fe-00444
- 32626-67-8 [3]Ferrocenophan-2-one, Fe-01049
- 32628-46-9 [3]Ferrocenophan-1-ene, Fe-01044
- 32628-85-6 (Bromomercury)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00171
- 32628-97-0 Dicarbonyliodo[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]iron, Fe-00287
- 32629-00-8 Dicarbonylchloro[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]iron, Fe-00284
- 32629-40-6 Bromo(η^5 -2,4-cyclopentadien-1-yl)-bis(isocyanomethane)iron, Fe-00443
- 32647-45-3 Tricarbonyl[(2,3,4,5- η)-2,4-cyclopentadien-1-one]iron, Fe-00251
- 32647-79-3 Tricarbonyl(2,4-hexadienedinitrile)iron, Fe-00343
- 32648-44-5 Tricarbonyl[(2,3,4,5- η)-2,4-hexadienoic acid]iron; (+)-*syn,syn-form*, *in* Fe-00408
- 32648-58-1 Tricarbonyl(η^4 -1-chloro-1,3-cyclobutadiene)iron, Fe-00151
- 32649-18-6 Tetracarbonyl[μ -(diphenylphosphino)]-(tetracarbonylmanganio)iron, Fe-01642
- 32649-34-6 Tricarbonyl[(2,3,4,5- η)-1,1-dimethyl-2,3,4,5-tetraphenylsilacyclopenta-2,4-diene]iron, Fe-02078
- 32649-35-7 Tricarbonyl[(2,3,4,5- η)-1,1,2,3,4,5-hexaphenylsilacyclopenta-2,4-diene]iron, Fe-02164
- 32660-22-3 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-hydro(triphenylphosphine)iron, Fe-01841
- 32660-25-6 μ -Carbonyltetracarbonyl(η^5 -2,4-cyclopentadien-1-yl)[μ -(diphenylphosphino)]diiron, Fe-01739
- 32660-69-8 Dicarbonyl(cyanato-*N*)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00262
- 32660-74-5 Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00266
- 32661-09-9 Tricarbonyl[(2,3,4,5- η)-5-phenyl-2,4-pentadienoic acid]iron; *syn,syn-form*, Me ester, *in* Fe-01159
- 32662-23-0 (Acetonitrile)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-00377
- 32677-73-9 1,1'-Bis(chloromethyl)ferrocene, Fe-00888
- 32677-74-0 1,1'-Ferrocenediacetonitrile, *in* Fe-01208
- 32677-77-3 1,1'-Dilithioferrocene; Tetramethylethylenediamine complex (1:1), *in* Fe-00518
- 32677-78-4 1,1'-Trithioferrocene, Fe-00541
- 32678-80-1 Acetylcarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trimethylphosphine)iron, Fe-00785
- 32679-05-3 (η^5 -2,4-Cyclopentadien-1-yl)-tris(isocyanomethane)iron(1+), Fe-00776
- 32679-10-0 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2-methylpropyl)iron, Fe-00778
- 32679-62-2 Carbonylnitrosyl(η^3 -2-propenyl)-(triphenylphosphine)iron, Fe-01762
- 32679-65-5 (η^4 -1,3-Butadiene)carbonyl[(1,2,3,4- η)-1,3,5,7-cyclooctatetraene]iron, Fe-01072
- 32680-64-1 1,1'-Bis(dimethylphosphino)ferrocene, Fe-01272
- 32681-24-6 1,3-Diacetylferrocene, Fe-01205
- 32698-84-3 Tricarbonyl[(2,3,4,5- η)-5-phenyl-2,4-pentadienenitrile]iron; *syn,syn-form*, *in* Fe-01147
- 32698-90-1 [(2,3,4,5- η)-1*H*-Azepine-1-carboxylic acid](η^4 -1,3-cyclobutadiene)iron; Et ester, *in* Fe-00737
- 32699-34-6 Tricarbonyl[(2,3,4,5- η)-2,4-hexadienal]iron; ($\pm$)-*syn,syn-form*, *in* Fe-00401
- 32699-36-8 Tricarbonyl[(2,3,4,5- η)-5-phenyl-2,4-pentadienenitrile]iron; *syn-Ph-anti-CN-form*, *in* Fe-01147
- 32716-35-1 Bis(η^4 -1,3-butadiene)carbonyliron, Fe-00452
- 32716-70-4 Tricarbonyl[(2,3,4,5- η)-2,4-cycloheptadien-1-ol]iron, Fe-00582
- 32717-10-5 1,2-Bis[(dimethylamino)methyl]ferrocene, Fe-01455
- 32731-93-4 Tricarbonyl[(1,2,3,4- η)-2-methyl-1,3-butadiene]iron, Fe-00301
- 32732-61-9 Tricarbonyl[(1,2,3,4- η)-5,5-dimethyl-1,3-cyclohexadiene]iron, Fe-00756
- 32732-66-4 [(1,2,3,4,5- η)-6-Acetyl-2,4-cycloheptadien-1-yl]tricarbonyliron(1+); Hexafluorophosphate, *in* Fe-00885
- 32732-71-1 Tricarbonyl[(1,2,3,4- η)-1,3-pentadiene]iron; *anti-form*, *in* Fe-00302
- 32734-63-7 Tricarbonyl[(2,3,4,5- η)-1-phenyl-2,4-pentadien-1-one]iron, Fe-01156
- 32734-66-0 Tricarbonyl[(2,3,4,5- η)-1-phenyl-2,4-pentadien-1-one]iron; *anti-form*, *in* Fe-01156
- 32735-93-6 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,4a,10a- η)-phenanthrene]iron(1+); Tetrafluoroborate, *in* Fe-01609
- 32757-45-2 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-1,3,5-trimethylbenzene]iron(1+); Hexafluorophosphate, *in* Fe-01235
- 32757-46-3 Di- μ -carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron; *trans-form*, *in* Fe-01164
- 32757-48-5 Carbonyl(cyano-*C*)(η^5 -2,4-Cyclopentadien-1-yl)-(triphenylphosphine)iron, Fe-01869
- 32757-50-9 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-1,3,5-trimethylbenzene]iron(1+), Fe-01235
- 32758-59-1 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-methylbenzene]iron(1+); Tetrafluoroborate, *in* Fe-00925
- 32758-63-7 (η^6 -Benzene)[(1,2,3,4,5- η)-1-methoxy-2,4-cyclopentadien-1-yl]iron(1+); Hexafluorophosphate, *in* Fe-00930
- 32758-64-8 (η^5 -2,4-Cyclopentadien-1-yl)(η^6 -methoxybenzene)-iron(1+), *in* Fe-00741
- 32758-65-9 [(1,2,3,4,5,6- η)-1,1'-Biphenyl](η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-01490
- 32760-28-4 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-methylbenzene]iron(1+), Fe-00925
- 32760-51-3 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trifluoromethyl)(triphenylphosphine)iron, Fe-01867

- 32760-76-2 [(1,2,3,4,5- η)-1-Acetyl-2,4-cyclopentadien-1-yl](η^6 -benzene)iron(1+); Hexafluorophosphate, *in* Fe-01064
- 32760-81-9 Tricarbonyl(1,2-di-*tert*-butyl-3,4-diphenylcyclobutadiene)iron, Fe-01955
- 32799-03-4 1,1,2,2-Tetramethyl[2]ferrocenophane, Fe-01434
- 32799-25-0 Tetracarbonyl(ethylene)iron, Fe-00114
- 32799-79-4 (Benzeneselenolato)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01020
- 32801-01-7 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methoxythioxomethyl)iron, Fe-00394
- 32802-67-8 (Benzenetelluroolato)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01021
- 32824-37-6 Tricarbonyl[(4,5,6,7- η)-1*H*-1,2-diazepine-1-carboxylic acid]iron; Isopropyl ester, *in* Fe-00351
- 32824-70-7 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)triphenylgermyliron, Fe-01868
- 32824-71-8 (Acetonitrile)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-00377
- 32824-75-2 Tricarbonyl[(1,2,3,4,5- η)-2,4,6-cyclooctatrien-1-yl]iron(1+), Fe-00701
- 32843-50-8 Bromo(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediy]bis[diphenylphosphine]-*P,P'*iron, Fe-02040
- 32843-51-9 Chloro(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediy]bis[diphenylphosphine]-*P,P'*iron, Fe-02042
- 32876-98-5 1,1'-Dimercaptoferrocene, Fe-00591
- 32879-17-7 (η^5 -2,4-Cyclopentadien-1-yl)(η^6 -fluorobenzene)iron(1+); Hexafluorophosphate, *in* Fe-00705
- 32879-23-5 1-(Hydroxymethyl)-2-methylferrocene, Fe-00943
- 32879-24-6 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-6-methyl-2,4-cyclohexadien-1-yl]iron, Fe-00934
- 32913-55-6 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1,2-dicarboxylic acid]iron; Dichloride, *in* Fe-00345
- 32913-56-7 Tricarbonyl(1,2-dicyano-1,3-cyclobutadiene)iron, *in* Fe-00345
- 32914-21-9 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1,2-dicarboxylic acid]iron; Di-Me ester, *in* Fe-00345
- 32914-22-0 Tricarbonyl(1,2-diacetyl-1,3-cyclobutadiene)iron, Fe-00685
- 32914-67-3 (Ferrocenylmethyl)triphenylphosphonium(1+); Iodide, *in* Fe-01995
- 32964-64-0 1,1'-(Iminosulfonyl)ferrocene, Fe-00553
- 32965-35-8 Tricarbonyl(1,2-dibenzoyl-1,3-cyclobutadiene)iron, Fe-01699
- 32965-36-9 Tricarbonyl[(1,2,3,4- η)-1,2-bis(2-chloroacetyl)-1,3-cyclobutadiene]iron, Fe-00660
- 32965-46-1 (η^6 -Chlorobenzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00704
- 32982-01-7 (3-Oxo-1-propenyl)ferrocene, Fe-01052
- 32984-28-4 [(1,2,3,4,5,6- η)-Benzoic acid](η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00883
- 32985-16-3 (2-Nitroethenyl)ferrocene; (*E*)-*form*, *in* Fe-00881
- 32985-99-2 3-Phenyl[5]ferrocenophane-1,5-dione, Fe-01716
- 32992-31-7 (2-Cyanoethenyl)ferrocene; (*Z*)-*form*, *in* Fe-01036
- 32993-40-1 Bromocarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenyl phosphite-*P*)iron, Fe-01823
- 32993-97-8 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1,2-dicarboxylic acid]iron; Diamide, *in* Fe-00345
- 32993-98-9 [(1,2,3,4- η)-1,2-Bis(chloromethyl)-1,3-cyclobutadiene]tricarbonyliron, Fe-00349
- 32994-52-8 (4-Hydroxyphenyl)ferrocene, Fe-01401
- 32994-54-0 Benzylferrocene, Fe-01492
- 32994-56-2 (4-Aminophenyl)ferrocene, Fe-01414
- 32994-58-4 1,1'-Di-*tert*-butylferrocene, Fe-01582
- 33009-52-8 (2-Cyanoethenyl)ferrocene, Fe-01036
- 33010-30-9 (1-Cyano-1-methylethyl)ferrocene, Fe-01213
- 33010-70-7 Chlorosulfonylferrocene, *in* Fe-00580
- 33010-90-1 1-Formyl-2-methylferrocene; (1*S*)-*form*, *in* Fe-00895
- 33031-95-7 (2-Furanylcabonyl)ferrocene, Fe-01309
- 33031-99-1 1'-Ferrocenoyl-1-ferrocenecarboxylic acid, Fe-01756
- 33039-25-7 Tricarbonyl(η^4 -1,3-cyclobutadien-1-amine)iron, Fe-00191
- 33039-39-3 Ferrocenehexanoic acid, Fe-01435
- 33039-65-5 [4]Ferrocenophane, Fe-01218
- 33039-67-7 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3*a*,7*a*- η)-4,5,6,7-tetrahydro-1*H*-inden-1-yl]iron, Fe-01217
- 33041-04-2 1,2-Diethylferrocene, Fe-01246
- 33041-05-3 1,3-Diethylferrocene, Fe-01247
- 33056-09-6 1,1',2-Triethylferrocene, Fe-01446
- 33056-62-1 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-carboxaldehyde]iron, Fe-00250
- 33056-71-2 1,1',3-Triethylferrocene, Fe-01447
- 33085-32-4 1-[(Dimethylamino)methyl]-2-(diphenylphosphino)ferrocene; ($\pm$)-*form*, *in* Fe-01910
- 33086-63-4 (η^6 -Chlorobenzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-00704
- 33087-84-2 Tricarbonylbis(η^5 -2,4-cyclopentadien-1-yl)-(isocyanomethane)diiron, Fe-01327
- 33135-99-8 Benzylcarbonyl- π -cyclopentadienyl(triphenylphosphine)iron, Fe-02034
- 33154-56-2 (Carbonothioyl)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-00264
- 33179-83-8 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(selenocyanato-*Se*)iron, Fe-00261
- 33182-83-1 Bis(μ -benzenetelluroolato)hexacarbonyldiiron, Fe-01523
- 33195-10-7 [(1,2,3,4,5- η)-1-Acetyl-2,4-cyclopentadien-1-yl]di- μ -carbonyldicarbonyl(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01390
- 33221-55-5 Di- μ -carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron; *cis-form*, *in* Fe-01164
- 33221-66-8 Carbonyl[(1,2,3- η)-2,4,6-cycloheptatrien-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01045
- 33248-48-5 Tetracarbonyldigermyliron; *cis-form*, *in* Fe-00050
- 33248-70-3 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-1-propynyliron, Fe-00523
- 33248-78-1 Tetracarbonyl[(2,3- η)-dimethyl 2-butenedioate]iron, *in* Fe-00254
- 33270-50-7 Tricarbonyl[(1,2,3,4- η)-1,3-cyclooctadiene]iron, Fe-00753
- 33271-06-6 Tetracarbonyl[(2,3- η)-1,4-diphenyl-2-butene-1,4-dione]iron; (*E*)-*form*, *in* Fe-01648
- 33271-07-7 Tetracarbonyl[(2,3- η)-1,4-diphenyl-2-butene-1,4-dione]iron; (*Z*)-*form*, *in* Fe-01648
- 33272-09-2 1,1'-Dilithioferrocene, Fe-00518
- 33306-52-4 1,2,3-Trichloroferrocene, Fe-00500
- 33306-53-5 1,2,3,4,5-Pentachloroferrocene, Fe-00486
- 33306-54-6 1,1',2,2'-Tetrachloroferrocene, Fe-00490
- 33306-55-7 1,1',2,2',3,3'-Hexachloroferrocene, Fe-00480
- 33306-56-8 1,1',2,2',3,3',4,4'-Octachloroferrocene, Fe-00479
- 33306-63-7 1,2,3,4-Tetrachloroferrocene, Fe-00491
- 33307-51-6 Bis(4,5,6,7-tetrahydro-4-oxo- π -indenyl)iron, Fe-01567
- 33308-30-4 Iodo[(1,2,3,4,5- η)-1-phenyl-2,4-cyclopentadien-1-yl]bis(triphenyl phosphite-*P*)iron, Fe-02179
- 33308-63-3 Dicarbonyl(cyanomethyl)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00369
- 33310-05-3 Hexacarbonyl[μ -[(1,2,3,4- η)-1,4- η]-1,2,3,4-tetraphenyl-1,3-butadiene-1,4-diyl]]diiron, Fe-02087
- 33339-10-5 (η^5 -2,4-Cyclopentadien-1-yl)tris(triphenyl phosphite-*P*)iron(1+); Thiocyanate, *in* Fe-02199
- 33339-12-7 (η^5 -2,4-Cyclopentadiene)tris(triphenyl phosphite)iron, Fe-02200
- 33339-13-8 (5-Phenyl-1,3-cyclopentadiene)tris(triphenyl phosphite)iron, Fe-02203
- 33340-89-5 Ferroceniumyltriphenylborate(1-), Fe-01966
- 33361-37-4 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-); Li salt, *in* Fe-00194
- 33362-89-9 Tricarbonyl[(1,2,3,4,5- η)-heptahydro-1,2-dicarbapentaborato(2-)]iron, Fe-00085
- 33363-31-4 Tricarbonyl(acetylcyclooctatetraene)iron, Fe-01024
- 33363-78-9 Tricarbonyl[(2,3,4,5,6- η)-3,5-heptadien-2-yl]iron(1+); *syn,syn-form*, Tetrafluoroborate, *in* Fe-00610

33409-79-9	Tetracarbonyl[(1,2- η)-ethoxyethene]iron, Fe-00312	34691-66-2	Pentacarbonyl(ethoxyferrocenylmethylene)tungsten, Fe-01543
33434-20-7	Tricarbonyl(η^4 -7-methyl-3-methylene-1,6-octadiene)iron, Fe-01104	34738-60-8	Hexacarbonyl[μ -[(1,2,3- η :4,5,6- η)-1,3,5-cycloheptatriene]]diiron, Fe-01011
33435-36-8	Bis[(1,2,3,4,5- η)-1,3,5-trimethyl-6-phenyl-2,4-cyclohexadien-1-yl]iron, Fe-02016	34739-02-1	Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(diphenylphosphinito- <i>P</i>)iron, Fe-01620
33435-37-9	Bis-[(1,2,3,4,5- η)-6- <i>tert</i> -butyl-1,3,5-trimethyl-2,4-cyclohexadien-1-yl]iron; <i>exo,exo</i> -form, in Fe-01945	34739-13-4	Tricarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclohexadien-1-yl]iron(1+); Hexafluorophosphate, in Fe-00558
33435-42-6	(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-methylbenzene]iron(1+); Hexafluorophosphate, in Fe-00925	34742-07-9	Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trichlorosilyl)iron, Fe-00187
33479-79-7	(Bromoethylene)tetracarbonyliron, Fe-00105	34742-08-0	Tricarbonyl[(1,2,3,4- η)-1,8-diphenyl-1,3,5,7-octatetraene]iron, Fe-01787
33480-27-2	[(1,2,3,4,5,6- η)-Benzonitrile](η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, in Fe-00845	34767-47-0	Tricarbonyl[(2,3,4,5- η)-2,4-pentadienal]iron; <i>syn-form</i> , in Fe-00274
33504-08-4	Tricarbonyl[(2,3,4,5- η)-2,3,4,5-tetraphenyl-2,4-cyclopentadien-1-one]iron, Fe-02050	34778-25-1	Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(tetracarbonylcobalt)iron, Fe-00657
33506-46-6	Tricarbonyl[(1,2,3,4- η)-7-methylene-1,3,5-cycloheptatriene]iron, Fe-00678	34779-05-0	Di- μ -carbonylcarbonyl[(1,2,3,4,5,6- η)-1 <i>H</i> -inden-1-yl](tricarbonylcobalt)iron, Fe-01288
33519-79-8	Bis[μ_3 -anilinato(2-)]nonacarbonyltriiron, Fe-01697	34779-21-0	(η^4 -1-Bromo-1,3-butadiene)tricarbonyliron; <i>syn-form</i> , in Fe-00174
33542-06-2	Acetyldicarbonyliodobis(trimethylphosphine)iron, Fe-00648	34788-31-3	Tricarbonyl[(2,3,4,5- η)-2,4-hexadienedial]iron; <i>syn, syn-form</i> , in Fe-00358
33542-07-3	Dicarbonyliodomethylbis(trimethylphosphine)iron, Fe-00469	34788-34-6	Tricarbonyl[(3,4,5,6- η)-1,8-diphenyl-1,3,5,7-octatetraene]iron, Fe-01788
33593-79-2	Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-2-one]iron, Fe-00583	34788-36-8	Tricarbonyl[(4,5,6,7- η)-7-phenyl-2,4,6-heptatrienal]iron, Fe-01389
33593-81-6	(Methyl sorbate)iron tricarbonyl, in Fe-00408	34788-37-9	Tricarbonyl[(2,3,4,5- η)-7-phenyl-2,4,6-heptatrienal]iron, Fe-01388
33593-82-7	(Sorbamide)iron tricarbonyl, in Fe-00408	34801-92-8	2-Benzoxazolylferrocene, Fe-01478
33593-85-0	Tricarbonyl[(1,4-diphenyl-1,3-butadiene)iron, Fe-01601	34802-15-8	Carbonylbis(cyano- <i>C</i>)(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-); K salt, in Fe-00263
33595-39-0	[5]Ferrocenophan-2-ene-1,5-dione, Fe-01308	34808-34-9	(5-Acetyl-1,2,3,4,5-pentamethyl-1,3-cyclopentadiene)tricarbonyliron, Fe-01347
33614-96-9	Tricarbonyl[(2,3,4,5- η)-2,4,6-cycloheptatrien-1-one]iron, Fe-00494	34808-35-0	Acetyldicarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, Fe-01256
33678-01-2	Tricarbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]iron(1+); Tetrafluoroborate, in Fe-00375	34808-38-3	Bromodicarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, Fe-00953
33678-04-5	Dicarbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl](triphenylphosphine)iron(1+); Tetrafluoroborate, in Fe-01926	34809-44-4	Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-iodo(phosphorous trifluoride)iron, Fe-00119
33724-84-4	Dinitrosylbis(triphenyl phosphite- <i>P</i>)iron, Fe-02113	34822-76-9	Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(dibromostibino)iron, Fe-00178
33728-20-0	Bromodinitrosyl(triphenylstibine)iron, Fe-01550	34822-83-8	Tricarbonyl[(4,5,6,7- η)-1 <i>H</i> -1,2-diazepine]iron; 1-Ac, in Fe-00267
33792-25-5	Carbonyl(methoxycarbonyl)-nitrosylbis(triphenylphosphine)iron, Fe-02148	34823-24-0	Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(dibromoarsino)iron, Fe-00168
33873-66-4	Hexacarbonylbis[μ -(1,1-diphenylmethylenimino)]diiron, Fe-02053	34823-28-4	Tricarbonyl[(2,3,4,5- η)-1-methyl-2,4-cyclopentadiene-1-methanol]iron, Fe-00587
33958-72-4	Pentacarbonyl(pentacarbonylmanganese)-(tetracarbonyliron)rhenium, Fe-01129	34829-59-9	Tricarbonyl[(2,3,4,5- η)-2,4-cycloheptadien-1-one]iron, Fe-00532
33989-32-1	Tricarbonylnitrosyl[(trimethylphosphine)aurio]iron, Fe-00134	34830-88-1	1 <i>H</i> -Benzimidazol-2-ylferrocene, Fe-01480
33989-35-4	Tricarbonylnitrosyl[(triphenylphosphine)aurio]iron, Fe-01701	34831-23-7	[(Phenylsulfonyl)methyl]ferrocene, Fe-01496
33989-39-8	Dicarbonylnitrosyl(triphenylphosphine)-[(triphenylphosphine)aurio]iron, Fe-02131	34852-86-3	Tetracarbonyl[(1,2,3- η)-1,1,3-trimethyl-2-butenyl]iron(1+); Tetrafluoroborate, in Fe-00772
34031-87-3	Tetracarbonylbis[μ -(2,2,5,5-tetramethyl-3-hexyne)]diiron, Fe-01858	34872-42-9	Tricarbonyl[(2,3,4,5- η)-2,4-hexadienoic acid]iron; (-)- <i>syn, syn-form</i> , in Fe-00408
34088-91-0	Tricarbonylnitrosyl[(trimethyl phosphite- <i>P</i>)aurio]iron, Fe-00135	34872-44-1	Tricarbonyl[(2,3,4,5- η)-2,4-pentadienoic acid]iron, Fe-00277
34248-86-7	Hexacarbonyliron(2+), Fe-00095	34872-45-2	Tricarbonyl[(2,3,4,5- η)-2,4-hexadienal]iron; (+)- <i>syn, syn-form</i> , in Fe-00401
34406-98-9	Tetracarbonyl[μ -(tetramethyldiphosphine)]-(pentacarbonylchromium)iron, Fe-01043	34872-46-3	Tricarbonyl[(2,3,4,5- η)-2,4-hexadienal]iron; (-)- <i>syn, syn-form</i> , in Fe-00401
34503-40-7	Dihydrotetrakis(triethyl phosphite- <i>P</i>)iron, Fe-01862	34872-47-4	Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-2-one]iron; (+)- <i>syn, syn-form</i> , in Fe-00583
34663-81-5	Tricarbonyl[(1,2,3,4,5- η)-3-methyl-2,4-cyclohexadien-1-yl]iron(1+); Hexafluorophosphate, in Fe-00560	34872-48-5	Tricarbonyl[(3,4,5,6- η)-3,5-hexadien-2-one]iron; (+)- <i>syn-form</i> , in Fe-00402
34664-02-3	Dicarbonyl[(1,2,3- η)-2-methyl-2-propenyl]nitrosyliron, Fe-00133	34889-17-3	Cyclohexylferrocene, Fe-01433
34664-03-4	Dicarbonyl(η^3 -1-chloro-2-propenyl)nitrosyliron, Fe-00075	34965-22-5	Hexacarbonylbis[μ -(trifluoromethanethiolato)]diiron, Fe-00240
34664-04-5	Dicarbonyl(η^3 -2-chloro-2-propenyl)nitrosyliron, Fe-00076	34978-61-5	(Hydroxyamino)ferrocene, Fe-00600
34664-05-6	(η^3 -2-Bromo-2-propenyl)dicarbonylnitrosyliron, Fe-00074	34978-78-4	(η^6 -Benzene)[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]iron(1+); Hexafluorophosphate, in Fe-00923
34676-23-8	1,3-Butadienylferrocene; (<i>E</i>)-form, in Fe-01193	34978-83-1	Carbonylbis[(1,2,3,4- η)-1,3-cyclohexadiene]iron, Fe-01100
34691-56-0	Tricarbonyl(1,2-diphenyl-1,3-cyclobutadiene)iron, Fe-01595	35004-40-1	Bis[(1,2,3,4,5,6- η)-methylbenzene]iron(2+); Bis(hexafluorophosphate), in Fe-01214

- 35004-41-2 1-[(Triphenylphosphine)aurio]ferrocene, Fe-01965
 35004-56-9 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediy]bis[diphenylphosphine]-*P,P'*iron-(1+); Tetrafluoroborate, *in* Fe-02069
 35025-24-2 1-Ferrocenylethanol; (*R*)-*form*, *in* Fe-00941
 35126-64-8 (1-Phenylethenyl)ferrocene, Fe-01556
 35164-74-0 Fluoroferrrocene, Fe-00548
 35165-73-2 Dicarboxyl[(1,2- η -cyclohexene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-01085
 35226-88-1 Dicarboxyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]-(ferrocenylmethoxymethylene)manganese, Fe-01675
 35260-83-4 Dicarboxyldiiodobis(phosphine)iron; *cis-form*, *in* Fe-00008
 35312-58-4 Tricarboxyl[(2,3,4,5- η)-2,3,4,5,6,6-hexamethyl-2,4-cyclohexadien-1-one]iron, Fe-01348
 35344-11-7 Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]diiron, Fe-01853
 35640-39-2 (η^6 -Aniline)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-00751
 35640-45-0 (η^6 -Aniline)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-00751
 35640-73-4 Bromotricarbonyl[(1,2,3- η)-2-phenyl-2-propenyl]iron, Fe-00837
 35679-07-3 Tetracarboxyl(triphenylphosphine)iron, Fe-01736
 35796-54-4 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-hydro(trimethylphosphine)iron, Fe-00461
 35796-55-5 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-hydro(trimethyl phosphite-*P*)iron, Fe-00462
 35796-59-9 Carbonylchloro(η^5 -2,4-cyclopentadien-1-yl)-(trimethylphosphine)iron, Fe-00457
 35797-77-4 Tricarboxyl(η^7 -2,4,6-cycloheptatrien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-00505
 35797-87-6 Tetracarboxyl(ethoxyphenylmethylene)iron, Fe-01030
 35797-88-7 Tetracarboxyl[(dimethylamino)phenylmethylene]iron, Fe-01041
 35797-91-2 Tetracarboxyl[(dimethylamino)ethoxymethylene]iron, Fe-00446
 35828-03-6 4-Pyrimidinylferrocene, Fe-01176
 35885-95-1 Tetracarboxylbis(η^5 -2,4-cyclopentadien-1-yl)-(mercury)diiron, Fe-01160
 35913-82-7 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)hydroiron, Fe-00200
 35914-19-3 Tricarboxyl[(4,5,6,7- η)-2,4,6,8-decatetraenedioic acid]iron; *syn,syn-form*, Di-Me ester, *in* Fe-01034
 35914-20-6 Tricarboxyl[(2,3,4,5- η)-2,4,6,8-decatetraenedioic acid]iron; ($\pm$)*syn,syn-form*, Di-Me ester, *in* Fe-01033
 35916-42-8 Carbonyl[(dimethylamino)ethoxymethylene]dinitrosyliron, Fe-00139
 35916-44-0 Carbonyl(ethoxyphenylmethylene)dinitrosyliron, Fe-00566
 35916-45-1 [(Diethylamino)ethoxymethylene]-dinitrosyl(triphenylphosphine)iron, Fe-01912
 36118-32-8 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(tribromogermyl)iron, Fe-00179
 36119-35-4 (Cyanoethynyl)ferrocene, Fe-01012
 36119-58-1 (η^4 -2-Methylene-1,3-propanediyl)-tris(phosphorous trifluoride)iron, Fe-00049
 36153-99-8 Heptacarboxyl[μ -[(2,6-dimethoxyphenyl)-ethoxymethylene]]diiron, Fe-01547
 36180-29-7 [[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene]-carbonylcobalt]di- μ -carbonylcarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron; *trans-form*, *in* Fe-01394
 36180-77-5 μ -Carboxyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(dimethylgermylene)]diiron; *cis-form*, *in* Fe-01343
 36190-46-2 Di- μ -bromohexacarboxyldiiron, Fe-00091
 36190-47-3 Hexacarboxyldi- μ -iododiiron, Fe-00097
 36222-39-6 Bis[1,2-ethanediy]bis[diphenylphosphine]-*P,P'*-(η^2 -ethene)iron, Fe-02193
 36222-48-7 (3-Oxo-1-propenyl)ferrocene; (*E*)-*form*, *in* Fe-01052
 36248-36-9 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)(2,2-dicyanoethenyl)iron, Fe-00661
 36343-88-1 Tricarboxyl[(1,2,3,4- η)-1,3,5-cycloheptatriene]iron, Fe-00528
 36344-20-4 1,1'-Bis(aminomethyl)ferrocene, Fe-00966
 36344-67-9 [[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene]-carbonylcobalt]di- μ -carbonylcarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron; *cis-form*, *in* Fe-01394
 36346-73-3 [(3a,4,5,6,7,7a- η)-1*H*-indene][(1,2,3,3a,7a- η)-1*H*-inden-1-yl]iron(1+); Hexafluorophosphate, *in* Fe-01552
 36348-34-2 1-Acetyl-2-iodoferrocene, Fe-00880
 36348-35-3 1-Acetyl-1'-iodoferrocene, Fe-00879
 36454-19-0 Dinitrosyl(1,10-phenanthroline-*N*¹,*N*¹⁰)iron, Fe-00827
 36464-64-9 Benzyltetracarboxylferrate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00669
 36464-65-0 Tetracarboxylethylferrate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00125
 36464-68-3 Tetracarboxyl(methoxymethyl)ferrate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00126
 36465-33-5 [(2,3,4,8- η)-Bicyclo[3.2.1]octa-3,6-diene-2,8-diyl]tricarbonyliron, Fe-00672
 36472-42-1 1,1'-Bis(2-cyanoethenyl)ferrocene, Fe-01385
 36472-43-2 1,1'-Bis(3-oxo-1-propenyl)ferrocene, Fe-01403
 36472-44-3 1,1'-Bis(3-oxo-1-butenyl)ferrocene, Fe-01566
 36472-54-5 Acetylcarbonyl(cyano-*C*)(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-); K salt, *in* Fe-00378
 36486-27-8 Bis[μ -[bis(trifluoromethyl)phosphine]]tetranitrosyldiiron, Fe-00037
 36496-61-4 μ -Carboxyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(dicyanoethenylidene)]diiron; *cis-form*, *in* Fe-01472
 36496-78-3 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)(2,3,4,5-tetraphenyl-1*H*-phosphol-1-yl)iron, Fe-02102
 36496-80-7 μ -Carboxyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(dicyanoethenylidene)]diiron; *trans-form*, *in* Fe-01472
 36535-34-9 Dicarboxyl(2-chloro-2-propenyl)-nitrosyl(triphenylphosphine)iron, Fe-01790
 36543-58-5 μ -Carboxyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(dimethylgermylene)]diiron, Fe-01343
 36548-93-3 1-Acetyl-2-methylferrocene; (+)-*form*, *in* Fe-01070
 36561-93-0 Dicarboxyl[(1,2,3,3a,7a- η)-1*H*-inden-1-yl]iodoiron, Fe-00667
 36561-99-6 Hexacarboxyl[μ -[(1,2,3,4- η :5,6,7,8- η)-1,3,5,7-cyclooctatetraene]]diiron, Fe-01146
 36569-45-6 1-Acetyl-2-[(dimethylamino)methyl]ferrocene, Fe-01351
 36569-76-3 Tricarboxyl[(3,4,5,6- η)-6-phenyl-3,5-hexadien-2-one]iron, Fe-01313
 36570-17-9 Tetracarboxyl(1,4-dihydro-1,4-dimethyl-5*H*-tetrazol-5-ylidene)iron, Fe-00199
 36570-19-1 Tetracarboxyl(1,3-dihydro-1,3-dimethyl-2*H*-imidazol-2-ylidene)iron, Fe-00384
 36593-92-7 [η^4 -1,3-Dicarboxy-2-methylene-1,3-propanediyl]tricarbonyliron; Di-Et ester, *in* Fe-00359
 36594-73-7 Tricarboxyl[(1,2,3- η)-2,4,6-cycloheptatrien-1-yl]ferrate(1-), Fe-00504
 36594-79-3 Tricarboxyl[(3,4,5,6- η)-1,3,5-cycloheptatriene-1-carboxaldehyde]iron, Fe-00682
 36594-82-8 Tricarboxyl(1-acetyl-1,3,5-cycloheptatriene)iron, Fe-00862
 36594-86-2 Tricarboxyl[(3,4,5,6- η)-1,3,5-cycloheptatriene-1-methanol]iron, Fe-00719
 36619-66-6 Tricarboxyl[η^4 -2-(2-oxo-2-phenylethylidene)-1,3-propanediyl]iron, Fe-01154
 36620-14-1 Tricarboxyl[η^4 -2-(2-methoxy-2-oxoethylidene)-1,3-propanediyl]iron, Fe-00409
 36630-33-8 Tricarboxyl(1-benzoyl-1,3,5-cycloheptatriene)iron, Fe-01476
 36632-68-5 Di- μ -carbonyldicarbonylbis[(1,2,3,3a,7a- η)-1*H*-inden-1-yl]diiron, Fe-01734
 36642-27-0 Tricarboxyl(η^4 -1,1-dimethyl-2-methylene-1,3-propanediyl)iron, Fe-00431

- 36645-11-1 Tricarbonyl(η^4 -2-methylene-1-phenyl-1,3-propanediyl)iron, Fe-01023
- 36645-14-4 Nonacarbonyl[μ^3 -[(η^2 : η^4 : η^4)-1,2-ethanediyl-1,2-phenylene]]triiron, Fe-01469
- 36645-20-2 Tricarbonyl[(2,3- η)-1-phenyl-2-propen-1-one]iron, Fe-00835
- 36655-41-1 μ -1,4-Butanediyltetracarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01570
- 36731-63-2 Ferrocenylacetaldehyde, Fe-00894
- 36835-55-9 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylsilyl)iron, Fe-01883
- 36921-33-2 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3a,7a- η)-4,5-dihydro-1H-inden-1-yl]iron, Fe-01194
- 36956-59-9 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(dibromindium)iron, Fe-00177
- 37048-09-2 Tricarbonyl[(2,3,4,5- η)-2,5-dimethylthiophene 1,1-dioxide]iron, Fe-00410
- 37048-10-5 Tricarbonyl[(2,3,4,5- η)-tetraphenylthiophene 1,1'-dioxide]iron, Fe-02027
- 37048-11-6 Tricarbonyl[(1,2,3,4,5- η)-ferrocenyl-2,4-cyclopentadien-1-yl]manganese, Fe-01528
- 37185-23-2 (η^5 -2,4-Cyclopentadien-1-yl)[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]-ferrate(1-), Fe-00234
- 37216-38-9 (Carbon)tetradecacarbonylpentaferrate(2-); Bis-(tetramethylammonium) salt, in Fe-01284
- 37298-49-0 (1,2-Dicarbadoecaboran(12)-3-yl)ferrocene, Fe-00976
- 37336-33-7 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(diphenylphosphino)]diiron; *cis*-form, in Fe-02114
- 37336-34-8 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(diphenylphosphino)]diiron; *trans*-form, in Fe-02114
- 37337-07-8 Bis[dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron]-magnesium; bis-Py solvate, in Fe-01161
- 37343-48-9 Diferrrocenylmethanol, Fe-01728
- 37408-51-8 (2-Cyanoethyl)ferrocene, Fe-01062
- 37408-54-1 1,1'-Bis(2-cyanoethyl)ferrocene, Fe-01420
- 37473-25-9 (2-Chloroethenyl)ferrocene; (*E*)-form, in Fe-00875
- 37667-52-0 [(1,2,3,3a,7a- η)-4-Amino-4,5,6,7-tetrahydro-1H-inden-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron; *exo*-form, in Fe-01236
- 37668-14-7 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2- η)-1-propene]iron(1+); Tetrafluoroborate, in Fe-00606
- 37668-58-9 [(1,2,3,3a,7a- η)-4-Amino-4,5,6,7-tetrahydro-1H-inden-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron; *endo*-form, in Fe-01236
- 37685-00-0 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron(1+), Fe-01232
- 37724-92-8 Tricarbonyl(η^4 -1,4-dichloro-1,3-butadiene)iron; *syn*-, *syn*-form, in Fe-00157
- 37724-94-0 Tricarbonyl(η^4 -1-chloro-1,3-butadiene)iron; *syn*-form, in Fe-00185
- 37724-96-2 Tricarbonyl(η^4 -2-chloro-1,3-butadiene), Fe-00184
- 37955-99-0 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(methanesulfonato-*O*)iron, Fe-00308
- 38117-82-7 [3][3](1,2)Ferrocenophane, Fe-01426
- 38162-28-6 Hydrotetrakis(phosphorous trifluoride)ferrate(1-), Fe-02212
- 38268-89-2 Tetracarbonyl[(2,3- η)-1,3-diphenyl-2-propen-1-one]iron, Fe-01596
- 38296-33-2 Tetracarbonyl[(3,4-dimethyl-3-cyclobutene-1,2-diyl)dicarbonyl]iron, Fe-00836
- 38333-35-6 Tricarbonyl[(*O*,2,3,4- η)-4-phenyl-3-buten-2-one]iron, Fe-01025
- 38333-36-7 Tricarbonyl[(*O*,1,2,3- η)-1,3-diphenyl-2-propen-1-one]iron, Fe-01524
- 38386-54-8 [(1,2,3- η)-2-Butenyl]tetracarbonyliron(1+); *anti*-form, Tetrafluoroborate, in Fe-00293
- 38497-97-1 Hexacarbonylbis[μ -(methaneselenolato)]diiron, Fe-00282
- 38498-00-9 Hexacarbonylbis[μ -(trifluoromethaneselenolato)]diiron, Fe-00241
- 38531-56-5 [Bis(trifluoromethyl)phosphino]dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00347
- 38547-45-4 Tricarbonyl(η^4 -1,2-dichloro-1,3-butadiene)iron; *syn*-form, in Fe-00156
- 38548-91-3 (η^4 -1-Bromo-1,3-cyclobutadiene)tricarbonyliron, Fe-00149
- 38599-35-8 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-ethanol]iron, Fe-00398
- 38599-36-9 Tricarbonyl[(3,4,5,6- η)-1,3,5-heptatriene]iron, Fe-00574
- 38599-37-0 Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-1-ol]iron; *syn*-, *syn*-form, in Fe-00623
- 38599-38-1 Tricarbonyl[(3,4,5,6- η)-3,5-cycloheptadien-1-ol]iron, Fe-00581
- 38668-89-2 Tricarbonyl(1,4-dimethyl-1,3-tetrazadiene-*N*¹,*N*⁴)iron, Fe-00084
- 38670-71-2 (Trimethylgermyl)ferrocene, Fe-01112
- 38670-82-5 1,1'-(1,1,2,2-Tetramethyl-1,2-disilanediy)ferrocene, Fe-01274
- 38670-85-8 1,1'-(1,1,2,2,3,3-Hexamethyl-1,3-trisilanediy)ferrocene, Fe-01459
- 38670-86-9 1,1'-(1,1,2,2-Tetramethyl-1,2-digermanediy)ferrocene, Fe-01267
- 38704-79-9 Tricarbonyl[(*O*,1,2,3- η)-3-phenyl-2-propenal]iron, Fe-00834
- 38720-05-7 Dihydrotetrakis(triphenyl phosphite-*P*)iron; *cis*-form, in Fe-02204
- 38720-20-6 (η^4 -1,3-Butadiene)[(1,2,3,4,5,6- η)-methylbenzene]iron, Fe-00775
- 38720-21-7 [(1,2,3,4,5,6- η)-Methylbenzene]bis(phosphorous trifluoride)iron, Fe-00219
- 38720-23-9 Tricarbonyl[(*O*,1,2,3- η)-1,3-diphenyl-2-propen-1-one]iron; (*E*)-form, in Fe-01524
- 38720-32-0 Tetracarbonyl[(2,3- η)-3-phenyl-2-propenal]iron, Fe-01008
- 38743-45-2 Tricarbonyl[(1,2,3- η)-5-oxo-2-hexenyl-*O*]iron(1+); Hexafluorophosphate, in Fe-00423
- 38768-41-1 1-Fomyl-2-(methoxycarbonyl)ferrocene, in Fe-00855
- 38785-62-5 Bis(η^4 -1,3-butadiene)(phosphorous trifluoride)iron, Fe-00321
- 38816-40-9 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(diphenylphosphino)iron, Fe-01618
- 38817-10-6 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2- η)-1-propene]iron(1+), Fe-00606
- 38817-13-9 Dicarboxyl[(1,2- η)-cyclohexene](η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-01085
- 38831-75-3 (Dinitrogen)bis[1,2-ethanediylbis(diphenylphosphine-*P*,*P'*)]hydroiron(1+); Tetraphenylborate, in Fe-02191
- 38831-76-4 (Dinitrogen)bis[1,2-ethanediylbis(diphenylphosphine-*P*,*P'*)]hydroiron(1+); Perchlorate, in Fe-02191
- 38834-26-3 Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, in Fe-00266
- 38834-34-3 Tetracarbonyl(η^2 -ethenol)iron, Fe-00115
- 38834-36-5 Bromotricarbonyl[(1,2,3- η)-2-methoxy-2-propenyl]iron, Fe-00210
- 38834-37-6 Tricarbonylido[(1,2,3- η)-2-methoxy-2-propenyl]iron, Fe-00216
- 38834-38-7 Tricarbonylchloro[(1,2,3- η)-2-methoxy-2-propenyl]iron, Fe-00213
- 38855-91-3 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron(1+); *trans*-form, Tetrafluoroborate, in Fe-01232
- 38855-92-4 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron(2+); *cis*-form, Bis(tetrafluoroborate), in Fe-01233
- 38855-94-6 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron(2+); *cis*-form, Bis(hexafluorophosphate), in Fe-01233
- 38888-39-0 Tricarbonyl[(3,4,5,6- η)-3,5-hexadien-2-ol]iron; (2*RS*,3*SR*)-form, in Fe-00438
- 38888-40-3 Tricarbonyl[(3,4,5,6- η)-3,5-hexadien-2-ol]iron; (2*RS*,3*RS*)-form, in Fe-00438
- 38890-24-3 Hexacarbonylbis[μ -(methylphosphino)]diiron; *cis*-form, in Fe-00315
- 38890-26-5 Hexacarbonylbis[μ -(methylphosphino)]diiron; *trans*-form, in Fe-00315
- 38893-16-2 Tetracarbonyl[(dimethylamino)methylene]iron, Fe-00218

- 38894-55-2 Tricarbonyl[1,2-ethanediyldis(diphenylphosphine)-*P,P'*]iron; *cis-form*, in Fe-01989
- 38903-71-8 Nonacarbonylbis[μ_3 -(phenyl)phosphinylidene]]triiron, Fe-01698
- 38930-35-7 (η^5 -2,4-Cyclopentadien-1-yl)[(2,3,4,5,6- η)-hexahydro-2,3-dicarbahexaborato(2-)]iron, Fe-00226
- 38959-05-6 (η^5 -2,4-Cyclopentadien-1-yl)[(3a,4,5,6a- η)-2,3-dihydro-1-oxo-3a(1*H*)-pentalenyl]iron, Fe-01047
- 38959-64-7 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(difluorophosphinothioyl)-*P*iron, Fe-00189
- 38959-96-5 [(3a,3'a,4,4',5,5',6,6',6a,6'a- η)-[1,1'-Bipentalene]-3a,3'a,(1*H*,1'*H*)-diyl]iron, Fe-01383
- 38960-10-0 Tricarbonylchloro(η^3 -2-propenyl)iron, Fe-00118
- 38960-10-0 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)-2-propenyliron, Fe-00568
- 38980-34-6 (η^5 -2,4-Cyclopentadien-1-yl)[(2,3,4,5,6- η)-hexahydro-2,3-dicarbahexaborato(2-)]hydroiron, Fe-00228
- 38999-56-3 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)[(2,3- η)-heptahydro-4,5-dicarbahexaborato(1-)]iron, Fe-00450
- 39334-07-1 2,6-Diferrocenylpyridine, Fe-01890
- 39334-08-2 2,6-Diferrocenylpyrylium(1+); Perchlorate, in Fe-01891
- 39336-30-6 Diferrocenylmethylum(1+); Tetrafluoroborate, in Fe-01722
- 39345-78-3 Benzoylmethylferrocene, Fe-01562
- 39358-32-2 Triferrocenylmethanol, Fe-02038
- 39358-40-2 Diferrocenylmethylum(1+), Fe-01722
- 39366-55-7 [4.4]Ferrocenophane-2,16-diyne, Fe-01970
- 39366-56-8 [4.4]Ferrocenophane-2,16-diene, Fe-01973
- 39366-61-5 Triferrocenylmethylum(1+); Hydrodichloride, in Fe-02036
- 39385-09-6 Diferrocenylphosphine, Fe-01678
- 39385-23-4 1,4-Diferrocenyl-1,4-butanedione, Fe-01848
- 39453-01-5 [Bis(triphenylphosphine)digold](η^5 -2,4-cyclopentadien-1-yl)[μ_3 -(1- η :1- η :1,2,3,4,5- η)-2,4-cyclopentadien-1-ylidene]]iron(1+); Tetrafluoroborate, in Fe-02177
- 39470-19-4 Diferrocenylbis(diethylamino)titanium, Fe-01976
- 39529-31-2 [(1,2,3,4,5- η)-2,4-Cyclohexadien-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00748
- 39584-17-3 Hydrotetrakis(phosphorous trifluoride)ferrate(1-); K salt, in Fe-02212
- 39584-18-4 Dihydrotetrakis(phosphorous trifluoride)iron, Fe-02213
- 39699-90-6 [1-(Dimethylamino)ethyl]ferrocene; ($\pm$)-*form*, Picrate, in Fe-01260
- 39733-49-8 Hydrotetrakis(phosphorous trifluoride)ferrate(1-); Tetraethylammonium salt, in Fe-02212
- 40674-86-0 Tricarbonyl[(1,2,3,4- η)-1,3-cycloheptadiene]iron, Fe-00571
- 40687-01-2 2-Quinolinyllferrocene, Fe-01612
- 40695-26-9 1-Chloro-1'-ethynylferrocene, Fe-00839
- 40729-83-7 Tricarbonyl[(1,2,3,4- η)-1,3-cyclopentadiene]iron, Fe-00268
- 40742-82-3 Di- μ_3 -arsenidononacarbonyltriiron, Fe-00329
- 40806-45-9 ▶ Dimethyltris(triphenylphosphine)iron, Fe-02195
- 40813-55-6 Chlorodinitrosyl(triphenylphosphine)iron, Fe-01551
- 40904-18-5 Bis[(7,8,9,10,11,12- η)-dodecahydro-7,9-dicarbadodecaborato(2-)]ferrate(2-); Bis-(tetraethylammonium) salt, in Fe-00062
- 40923-28-2 Tetracarbonyl(diphenylphosphino)ferrate(1-); Bis-(triphenylphosphine)iminium salt, in Fe-01376
- 40944-27-2 Tetracarbonyl(diphenylarsino)ferrate(1-); Bis(triphenylphosphine)iminium salt, in Fe-01375
- 40958-61-0 (η^5 -2,4-Cyclopentadien-1-yl)[(7,8,9,10,11- η)-undecahydro-7,9-dicarbaundecaborato(2-)]iron, Fe-00235
- 41077-34-3 (η^5 -2,4-Cyclopentadien-1-yl)[η^6 -dodecahydridocarbododecaborato(2-)]iron, Fe-00236
- 41311-84-6 1,1',2,2',3,3',4,4',5-Nonamethylferrocene, Fe-01640
- 41312-65-6 (2-Aminoethyl)ferrocene, Fe-00955
- 41337-53-5 Bis[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iron, Fe-01243
- 41357-53-3 [(5,6,7,8- η)-Benzocyclooctatetraene]tricarbonyliron, Fe-01298
- 41370-97-2 [(β -D-Glucopyranosyloxy)methyl]ferrocene, Fe-01501
- 41395-54-4 Hexacarbonyl(tetraphenylbutatriene)diiron, Fe-02088
- 41395-67-9 (1-Cyanocyclopropyl)ferrocene, Fe-01187
- 41447-54-5 Tricarbonyl[(1,3,4,5- η)-4-cycloheptene-1,3-diyl]iron, Fe-00572
- 41484-02-0 Octacarbonylbis[μ -(diphenylgermylene)]diiron, Fe-02052
- 41484-04-2 Octacarbonylbis[μ -(diphenylplumbylene)]diiron, Fe-02054
- 41517-31-1 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(dimethylgermylene)]diiron, Fe-01450
- 41543-39-9 Bis[μ -(benzenethiolato)]hexacarbonyldiiron; *trans-form*, in Fe-01521
- 41550-62-3 (1,3-Dioxo-3-phenylpropyl)ferrocene, Fe-01625
- 41550-90-7 Carbonyl[(1,2,3- η)-2-methyl-2-propenyl]-nitrosyl(triphenylphosphine)iron, Fe-01805
- 41551-00-2 (η^5 -2,4-Cyclopentadien-1-yl)bis(phosphorous trifluoride)ferrate(1-); K salt, in Fe-00078
- 41556-86-9 1,2-Diiodoferrocene, Fe-00517
- 41559-20-0 1,1'-[Bis(triphenylphosphine)aurio]ferrocene, Fe-02174
- 41560-74-1 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^2 -ethene)-(triphenylphosphine)iron(1+); Tetrafluoroborate, in Fe-01934
- 41572-78-5 [4]Ferrocenophan-2-ene, Fe-01197
- 41576-64-1 1,1'-Bis(2-cyanoethenyl)ferrocene; (*E,Z*)-*form*, in Fe-01385
- 41579-27-5 Ferrocenylphenylmethylum(1+); Tetrafluoroborate, in Fe-01491
- 41583-25-9 [4]Ferrocenophan-2-one, Fe-01200
- 41617-44-1 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(phenylmercury)iron, Fe-01013
- 41617-77-0 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-[methylenebis(diphenylphosphine)-*P,P'*]iron(1+), Fe-02035
- 41617-78-1 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediyldis(diphenylphosphine)-*P,P'*]iron(1+), Fe-02069
- 41626-54-4 Tricarbonyl[(2,3,4,5- η)-2,4-cholestadiene]iron, Fe-02021
- 41626-55-5 Tricarbonyl[(1,2,3,4- η)-1,3,5-cholestatriene]iron, Fe-02018
- 41627-31-0 Tricarbonyl[(3,4,5,6- η)-3,5-hexadien-2-one]iron; ($\pm$)-*anti-form*, in Fe-00402
- 41627-32-1 Tricarbonyl[(3,4,5,6- η)-3,5-hexadien-2-one]iron; ($\pm$)-*syn-form*, in Fe-00402
- 41630-38-0 Tricarbonyl[(*O*,1,2,3- η)-1,4-diphenyl-2-butene-1,4-dione]iron, Fe-01597
- 41636-79-7 1,1'-Diaminoferrrocene, Fe-00616
- 41649-75-6 Tricarbonyl[(1,2,3,4- η)-1,3-cholestadiene]iron, Fe-02020
- 41649-75-6 Tricarbonyl[(1,2,3,4- η)-1,3-cholestadiene]iron; 5 α -*form*, in Fe-02020
- 41684-66-6 (Dimethylphosphino)ferrocene, Fe-00963
- 41686-87-7 1,1'-Ferrocenedisulfonyl chloride, Fe-00513
- 41707-12-4 1,1'-Bis(2-cyanoethenyl)ferrocene; (*Z,Z*)-*form*, in Fe-01385
- 41707-13-5 1,1'-Bis(2-cyanoethenyl)ferrocene; (*E,E*)-*form*, in Fe-01385
- 41707-16-8 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2- η)-2-methyl-1-propene]iron(1+); Tetrafluoroborate, in Fe-00769
- 41755-21-9 Tetracarbonyl(1,3-dimethyl-2-imidazolidinylidene)iron, Fe-00425
- 41757-29-3 Tetracarbonyl[(2,3- η)-1,4-diphenyl-2-butene-1,4-dione]iron, Fe-01648
- 41772-74-1 Carbonylnitrosyl(phenylazo)(triphenylphosphine)-iron, Fe-01877
- 41787-07-9 ▶ 1,1'-Dilithioferrocene; Tetramethylethylenediamine complex (1:2), in Fe-00518
- 41830-38-0 Dicarboxyl(phenylazo)bis(triphenylphosphine)iron(1+); Tetrafluoroborate, in Fe-02166

- 41853-19-4 [(2,3,4,5,6- η)-Bicyclo[5.1.0]octa-3,5-dien-2-yl]tricarbonyliron(1+), Fe-00700
- 41900-55-4 Tetracarbonylformylferrate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00070
- 42043-77-6 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-1,2-propadienyliron, Fe-00522
- 42086-39-5 Tricarbonyl[(1,4,5,6- η)-5-cyclooctene-1,4-diyl]iron, Fe-00755
- 42116-78-9 Tricarbonyl[(2,3,4,5- η)-thiophene 1,1-dioxide]iron, Fe-00164
- 42116-78-9 Tetracarbonyl[(3,4- η)-2H-thiete 1,1-dioxide]iron, Fe-00166
- 42161-90-0 (η^5 -2,4-Cyclopentadien-1-yl)tris(triphenyl phosphite-P)iron(1+); Tetrafluoroborate, *in* Fe-02199
- 42183-78-8 [(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene-2-carboxaldehyde]tricarbonyliron, Fe-00679
- 42183-79-9 Tricarbonyl[(2,3,5,6- η)-methyl bicyclo[2.2.1]hepta-2,5-diene-2-carboxylate]iron, Fe-00868
- 42378-13-2 Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-2-ol]iron; (2*RS*,3*SR*)-form, *in* Fe-00624
- 42531-68-0 Tricarbonyl[(1,2,3,4,5- η)-3-methoxy-2,4-cyclohexadien-1-yl]iron(1+); Tetrafluoroborate, *in* Fe-00561
- 42535-31-9 Tricarbonyl[(1,2,3,4- η)-5,5-dimethyl-1,3-cyclopentadiene]iron, Fe-00573
- 42552-73-8 1-Ferrocenyl-1,2-propanedione, Fe-01054
- 42584-09-8 (Cyano-C)pentakis(isocyanomethane)iron(2+); Bis-(fluorosulfate), *in* Fe-00781
- 42612-86-2 Di- μ -carbonyltris(η^5 -2,4-cyclopentadien-1-yl)-[μ_3 -(methanethiolato)]- μ_3 -thioxotriiron, Fe-01572
- 42765-62-8 1,3-Dibenzylferrocene, Fe-01845
- 42765-82-2 Azidodicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00192
- 42769-15-3 (η^5 -2,4-Cyclopentadien-1-yl)[(5,6,7,8,9,10- η)-decahydro-6,9-dicarbadoctaborato(2-)]iron, Fe-00233
- 42790-03-4 1,4-Diphenyl[4]ferrocenophane-1,3-diene, Fe-01919
- 42790-07-8 1,4-Diphenyl[4]ferrocenophane, Fe-01931
- 42790-08-9 1,4-Diphenyl[4]ferrocenophane; (1*RS*,4*SR*)-form, *in* Fe-01931
- 42808-85-5 (η^5 -2,4-Cyclopentadien-1-yl)[(1,3,6,8- η)-octahydro-1,8-dicarbadoctaborato(2-)]iron, Fe-00229
- 42830-83-1 Di- μ -carbonyldicarbonyl[μ -[(1,2,3,4,5- η :1',2',3',4',5'- η)-(dimethylsilylene)-bis(2,4-cyclopentadien-1-ylidene)]]diiron, Fe-01411
- 42830-98-8 Dicarbonyl[(S,1,2,3- η)-2-propenethial]-(triphenylphosphine)iron, Fe-01793
- 42892-73-9 Dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)-bis(isocyanomethane)diiron, Fe-01422
- 42898-05-5 1,2-Diphenylferrocene, Fe-01746
- 42920-73-0 Hexakis(diethylamino)- μ -1,1'-ferrocenediyltitanium, Fe-02098
- 42936-43-6 Carbonyl(carboxymethyl)- η^5 -cyclopentadienyl(triphenylphosphine)iron menthyl ester; (S)_{Fe}-form, *in* Fe-02119
- 42947-52-4 Tricarbonyl(ethoxyphenylmethylene)-(triphenylphosphine)iron, Fe-02004
- 42947-53-5 Tricarbonyl(ethoxyphenylmethylene)(triphenyl phosphite-P)iron, Fe-02005
- 42947-54-6 Tricarbonyl(1-ethoxyethylidene)-(triphenylphosphine)iron, Fe-01907
- 42947-55-7 Tricarbonyl(1-ethoxyethylidene)(triphenyl phosphite-P)iron, Fe-01908
- 42968-39-8 (η^5 -2,4-Cyclopentadien-1-yl)[(3,5,6,7,8- η)-octahydro-5,6-dicarbadoctaborato(2-)]iron, Fe-00230
- 42991-95-7 Tricarbonylchloro[(1,2,3- η)-2-phenyl-2-propenyl]iron, Fe-00840
- 42992-04-1 Carbonyl(carboxymethyl)- η^5 -cyclopentadienyl(triphenylphosphine)iron menthyl ester; (R)_{Fe}-form, *in* Fe-02119
- 42993-54-4 Tris(diethylamino)ferrocenyltitanium, Fe-01779
- 43039-17-4 [(η^4 -1,3-Butadienyl)ferrocene]tricarbonyliron, Fe-01488
- 43047-50-3 Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadien-1-yl]ferrocene]iron, Fe-01626
- 43070-44-6 Acetyldicarbonyl[hydrotris(1*H*-pyrazolato-*N*¹)-borato(1-)-*N*²,*N*^{2'},*N*^{2''}]iron, Fe-01060
- 43140-13-2 Tricarbonyl[(1,2,3,4- η)-1,3,5,7-cyclononatetraene]iron, Fe-00856
- 43140-14-3 [(2,3,6,7- η)-Bicyclo[6.1.0]nona-2,4,6-triene]tricarbonyliron, Fe-00853
- 43140-16-5 Tricarbonyl(1-phenyl-1,3-cyclohexadiene)iron, Fe-01310
- 43140-17-6 Tetracarbonyl(η^3 -2-propenyl)iron(1+); Tetrafluoroborate, *in* Fe-00195
- 43140-26-7 Dicarbonylnitrosyl(tetraphenylcyclobutadiene)iron(1+); Hexafluorophosphate, *in* Fe-01999
- 43140-27-8 Carbonyl(η^4 -1,3-cyclobutadiene)-nitrosyl(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-01792
- 43140-30-3 Carbonyl(η^4 -tetraphenylcyclobutadiene)-nitrosyl(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-02178
- 43157-69-3 Benzyl(methyl- π -cyclopentadienyl)dicarbonyliron, Fe-01331
- 43157-70-6 Benzyl dicarbonyl[(1,2,3,3*a*,7*a*- η)-1*H*-inden-1-yl]iron, Fe-01537
- 43157-73-9 Dicarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]phenyliron, Fe-01575
- 43157-74-0 Dicarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]phenyliron, Fe-01179
- 43157-75-1 Benzylpentamethyl- η^5 -cyclopentadienyl dicarbonyliron, Fe-01635
- 43157-79-5 *tert*-Butyldicarbonyl- π -cyclopentadienyliron, Fe-00777
- 43175-64-0 Dicarbonyl(η^4 -1,3-cyclobutadiene)nitrosyliron(1+); Hexafluorophosphate, *in* Fe-00112
- 43198-13-6 Tetracarbonyl[1,2-ethanediylbis(dimethylsilylene)]iron, Fe-00642
- 43218-57-1 Dicarbonylnitrosyl[(1,2,3,4- η)-1,2,3,4-tetramethyl-1,3-cyclobutadiene]iron(1+); Hexafluorophosphate, *in* Fe-00615
- 43223-43-4 (Acetonitrile)carbonyl(2,3,9,10-tetramethyl-1,4,8,11-tetraazacyclotetradeca-1,3,8,10-tetraene-*N*¹,*N*⁴,*N*⁸,*N*¹¹)iron(2+); Bis(hexafluorophosphate), *in* Fe-01506
- 44966-61-2 Tetracarbonyl ethylferrate(1-), Fe-00125
- 45000-77-9 Acetyltetracarbonylferrate(1-), Fe-00108
- 45835-61-8 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)methyleneiron(1+), Fe-00289
- 45977-75-1 Tricarbonyl(η^5 -2,4-pentadienyl)iron(1+), Fe-00292
- 46134-85-4 Tricarbonyl[(1,2,3,4,5- η)-2,4-hexadienyl]iron(1+), Fe-00422
- 46238-51-1 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2- η)-2-methyl-1-propene]iron(1+), Fe-00769
- 46238-71-5 Tricarbonyl[(1,2,3,4,5- η)-2-methyl-2,4-cyclohexadien-1-yl]iron(1+), Fe-00559
- 46238-80-6 Tricarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclohexadien-1-yl]iron(1+), Fe-00558
- 46238-82-8 Tricarbonyl[(2,3,4,5,6- η)-3,5-heptadien-2-yl]iron(1+), Fe-00610
- 46238-85-1 Tricarbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iron(1+), Fe-00557
- 46466-61-9 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,4*a*,8*a*- η)-naphthalene]iron(1+), Fe-01322
- 46470-80-8 Benzyltetracarbonylferrate(1-), Fe-00669
- 46753-55-3 Benzoyltetracarbonylferrate(1-), Fe-00659
- 48055-09-0 Tetracarbonylformylferrate(1-), Fe-00070
- 48145-38-6 Tricarbonyl[(1,2,3,4,5- η)-3-methoxy-2,4-cyclohexadien-1-yl]iron(1+), Fe-00561
- 48194-86-1 Tricarbonyl(1,4-diphenyl-1,3-butadiene)iron; *syn*, *syn*-form, *in* Fe-01601
- 48219-92-7 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^2 -ethene)-(triphenylphosphine)iron(1+), Fe-01934
- 49539-48-2 Tricarbonyl[(2,3,4,5- η)-1,1-dimethyl-2,5-diphenylsilacyclopenta-2,4-diene]iron, Fe-01717

- 49624-79-5 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(dicyanoethenylidene)]diiron, Fe-01472
- 49654-90-2 Tricarbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]iron(1+), Fe-00375
- 49655-14-3 Tricarbonylbis(tributylphosphine)iron; *trans-form*, in Fe-01957
- 49772-11-4 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylstibine)iron(1+); Hexafluorophosphate, in Fe-01882
- 49871-61-6 Carbonyl(η^4 -tetraphenylcyclobutadiene)-nitrosyl(triphenylphosphine)iron(1+), Fe-02178
- 50266-55-2 (1-Aminoethyl)ferrocene; ($\pm$)-*form*, B, AcOH, in Fe-00954
- 50277-86-6 Tricarbonyl[(1,2,3,4,5- η)-2,4-hexadienyl]iron(1+); *syn-form*, Tetrafluoroborate, in Fe-00422
- 50277-87-7 Tricarbonyl[(1,2,3,4- η)-1,3,5-hexatriene]iron; *syn-form*, in Fe-00393
- 50277-90-2 Hexacarbonyl[μ -(η^2 : η^4 -1,2-ethenediyl-1,2-phenylene)]diiron, Fe-01141
- 50292-74-5 Tricarbonyl[(1,2,3,4,5- η)-1,2,3,4,5,6,6-heptamethyl-2,4-cyclohexadien-1-yl]iron(1+), Fe-01442
- 50576-99-3 Tricarbonyl[(1,2,3,4,5- η)-2,4-hexadienyl]iron(1+); *syn-form*, in Fe-00422
- 50986-63-5 Hexacarbonylbis[μ -(2-propaniminato)]diiron, Fe-00913
- 50986-64-6 Hexacarbonyl[μ -(2-propaniminato)][μ -(2-propanoneoximato-*N:O*)]diiron, Fe-00914
- 51021-49-9 1,2-Bis(chloromercuri)ferrocene, Fe-00512
- 51021-53-5 1,2-Ferrocenedicarboxylic acid, Fe-00861
- 51059-38-2 Tetranitrosylbis(trifluoromethanethiolato)diiron, Fe-00005
- 51106-10-6 Tricarbonyl[(2,3,4,5- η)-7-phenyl-2,4,6-heptatrienyl]iron; *syn, syn-form*, in Fe-01388
- 51106-12-8 Tricarbonyl[(4,5,6,7- η)-7-phenyl-2,4,6-heptatrienyl]iron; *syn, syn-form*, in Fe-01389
- 51150-06-2 (η^5 -1-Amino-2,4-cyclopentadien-1-yl)(η^6 -benzene)iron(1+), Fe-00750
- 51150-08-4 (η^6 -Aniline)(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00751
- 51150-29-9 (η^6 -Benzene)[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-00923
- 51151-62-3 Ferrocenyldiphenylmethylum(1+), Fe-01791
- 51159-93-4 1,1,12,12-Tetramethyl[1.1]ferrocenophane, Fe-01940
- 51177-52-7 Tricarbonyl[(2,3,4,5,6- η)-hexahydro-2,3-dicarbahexaborato(2-)]iron, Fe-00081
- 51177-77-6 (η^5 -2,4-Cyclopentadien-1-yl)[(2,3,4,5,6- η)-heptahydro-2,5-dicarbahexaborato(1-)-*H μ*]-iron, Fe-00227
- 51177-83-4 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)propyliron, Fe-00621
- 51187-44-1 Tricarbonyl[(4,5,6,7- η)-1*H*-1,2-diazepine]iron, Fe-00267
- 51187-46-3 Tricarbonyl[(4,5,6,7- η)-3-methyl-1*H*-1,2-diazepine]iron, Fe-00382
- 51187-48-5 Tricarbonyl[(4,5,6,7- η)-5-methyl-1*H*-1,2-diazepine]iron, Fe-00383
- 51187-49-6 [(η^4 -1,3-Butadien-1-yl)acetate]tricarbonyliron, in Fe-00203
- 51197-83-2 2,3-Diferrocenyl-2-butene; (*E*)-*form*, in Fe-01849
- 51203-46-4 Tricarbonyl[(3,4,5,6,7- η)-heptahydro-3,5-dicarbaheptaborato(2-)]iron, Fe-00086
- 51205-56-2 Tetrakis(phosphorous trifluoride)[(2,3- η)-2-propenenitrile]iron, Fe-00021
- 51205-58-4 [(η^2 -Ethenyl)benzene]tetrakis(phosphorous trifluoride)iron, Fe-00294
- 51205-81-3 [(*O*,1,2,3- η)-2-Butenal]tris(phosphorous trifluoride)iron, Fe-00046
- 51205-82-4 [(*O*,2,3,4- η)-3-Buten-2-one]tris(phosphorous trifluoride)iron, Fe-00047
- 51263-22-0 Bis(η^6 -benzene)iron(2+), Fe-00889
- 51364-24-0 (η^6 -Benzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+), Fe-00734
- 51373-24-1 Tricarbonyl[(1,2,3,4,5- η)-3-methyl-2,4-cyclohexadien-1-yl]iron(1+), Fe-00560
- 51509-19-4 (η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediy]bis[diphenylphosphine]-*P, P'* methyliron, Fe-02071
- 51509-20-7 (η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediy]bis[diphenylphosphine]-*P, P'* hydroiron, Fe-02044
- 51509-22-9 [η^4 -1,3-Dicarboxy-2-methylene-1,3-propanediyl]tricarbonyliron; Di-Me ester, in Fe-00359
- 51509-63-8 Tricarbonyl[(3,4,5,6- η)-1,3,5,7-cyclononatetraene]iron, Fe-00857
- 51509-75-2 [η^4 -1,2-Bis(methylene)cyclobutane]tricarbonyliron, Fe-00389
- 51539-41-4 Tricarbonyl[(1,2,5,6- η)-1,5-cyclohexadiene-1-carboxylic acid]iron; Me ester, in Fe-00539
- 51539-42-5 Tricarbonyl[(1,2,3,4- η)-1,3-cyclohexadiene-1-carboxylic acid]iron; ($\pm$)-*form*, Me ester, in Fe-00538
- 51539-44-7 Tricarbonyl[(1,2,3,4- η)-1,3-cyclohexadiene-1-carbonitrile]iron, Fe-00501
- 51552-96-6 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methanesulfinato-*O*)(triphenylphosphine)iron, Fe-01904
- 51751-61-2 Bis[(1,2,3,4,5,6- η)-1,1-dihydro-1,2,4,6-tetraphenyl-1-phosphorinyl]iron, Fe-02197
- 51751-62-3 Bis[(1,2,3,4,5,6- η)-1,1-dihydro-1-methyl-2,4,6-triphenyl-1-phosphorinyl]iron, Fe-02182
- 51779-68-1 Dicarbonyldichlorobis(triphenylphosphine)iron, Fe-02133
- 51812-05-6 (η^6 -Benzene)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00733
- 51812-56-7 Carbonylmethyl[(1,2,3,4,5- η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl]-(triphenylphosphine)iron, Fe-02068
- 51812-72-7 Ferrocenepentanoic acid, Fe-01346
- 51819-67-1 Dicarbonyldiiodobis(trimethylphosphine)iron; *af-dicarbonyl-bd-diiodo-ce-diphosphine-form*, in Fe-00325
- 51831-70-0 [(Diphenylphosphino)methyl]ferrocene, Fe-01803
- 51862-24-9 (Chloroacetyl)ferrocene, Fe-00877
- 51868-94-1 Bis[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]ferrate(2-), Fe-00061
- 51889-36-2 [(2,3,4,6,7- η)-Bicyclo[3.2.2]nona-3,6,8-trien-2-yl]tricarbonyliron(1+); Tetrafluoroborate, in Fe-00842
- 51900-72-2 [Bis(triphenylphosphine)digold](η^5 -2,4-cyclopentadien-1-yl)[μ_3 -(1- η :1- η :1,2,3,4,5- η)-2,4-cyclopentadien-1-ylidene]]iron(1+), Fe-02177
- 51923-54-7 Tetra- μ_3 -carbonyltetrakis(η^5 -2,4-cyclopentadien-1-yl)tetrairon(1+), Fe-01839
- 51949-90-7 [(2,3,4,6,7- η)-Bicyclo[3.2.1]octa-3,6-diene-2,8-diyl]tricarbonyliron(1+); Tetrafluoroborate, in Fe-00699
- 52051-08-8 Hexakis(trimethyl phosphite-*P*)iron(2+); Bis(tetraphenylborate), in Fe-01591
- 52124-51-3 Bis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(nitrosyl-*N:N*)]diiron, Fe-00594
- 52124-65-9 [(2,3,4,5- η)-Bicyclo[4.2.0]octa-2,4,7-triene]tricarbonyliron; *syn-form*, in Fe-00673
- 52138-51-9 [(2-Carboxyethyl)thio]ferrocene, Fe-01079
- 52154-52-6 [(2,3,4,5- η)-Bicyclo[4.2.0]octa-2,4,7-triene]tricarbonyliron; *anti-form*, in Fe-00673
- 52201-94-2 Mercaptoferrocene, Fe-00590
- 52201-95-3 [(Carboxymethyl)thio]ferrocene, Fe-00904
- 52215-96-0 Nonacarbonyl[μ_3 -(ferrocenylmethylidyne)]tricobalt, Fe-01641
- 52225-44-2 Amminedicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, in Fe-00220
- 52314-43-9 Tricarbonyl(η^4 -2-ethenyl-2-butenedioic acid)iron; *syn-form*, Di-Me ester, in Fe-00360
- 52324-44-4 Tetracarbonyl[3,4-dimethyl-2(3*H*)-thiazolydene]iron, Fe-00372
- 52326-25-7 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^3 -2-propenyl)iron, Fe-00426
- 52326-26-8 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2,3- η)-2-methyl-2-propenyl]iron, Fe-00619

- 52326-27-9 Carbonyl[(1,2,3,3a,7a- η)-1*H*-inden-1-yl](η^3 -2-propenyl)iron, Fe-01046
- 52326-30-4 Dicarboxyl[(1,2,3,3a,7a- η)-1*H*-inden-1-yl]ferrate(1-); Na salt, *in* Fe-00668
- 52326-58-6 1,1-Diferrocenylethylene, Fe-01763
- 52391-12-5 Tetra- μ_3 -carbonyltetrakis(η^5 -2,4-cyclopentadien-1-yl)tetrairon(1+); Heptaoidide, *in* Fe-01839
- 52391-16-9 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(diphenylphosphino)]diiron(1+); Tetraphenylborate, *in* Fe-02115
- 52394-44-2 Di- μ -iodotetrakisiron, Fe-02219
- 52409-66-2 Dicarboxylmethyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, Fe-01116
- 52409-68-4 Dicarboxylchloro[(1,2,3,4,5- η)-1,2,3,4-tetramethyl-5-(1-methylethenyl)-2,4-cyclopentadien-1-yl]iron, Fe-01234
- 52409-72-0 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(trifluoromethyl)iron, Fe-00257
- 52410-00-1 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(isocyanomethane)(triphenylphosphine)iron(1+); Tetraphenylborate, *in* Fe-01928
- 52437-57-7 Tricarbonyl(η^4 -2-ethenyl-2-butenedioic acid)iron; *anti-form*, Di-Me ester, *in* Fe-00360
- 52445-09-7 Tricarbonyl(acetylcyclobutadiene)iron, Fe-00354
- 52445-10-0 Tricarbonyl[(1,2,3,4- η)-1-ethyl-1,3-cyclobutadiene]iron, Fe-00392
- 52456-02-7 Oxiranylferrrocene, Fe-00897
- 52456-38-9 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(dimethylarsino)iron, Fe-00441
- 52456-44-7 [(7,8- η)Bicyclo[4.2.0]octa-1,3,5,7-tetraene]-dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-01302
- 52462-21-2 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(ferrocenylcarbonyl)iron, Fe-01544
- 52472-04-5 Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrocenyltungsten, Fe-01541
- 52472-35-2 1-Acetyl-1',2-di-*tert*-butylferrrocene, Fe-01689
- 52487-16-8 Tricarbonyl[(1,2,3,6- η)-6-oxo-2-hexene-1,6-diyl]iron, Fe-00406
- 52487-17-9 Tricarbonyl[(1,2,3,5- η)-2-pentene-1,5-diyl]iron, Fe-00303
- 52487-18-0 Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1,2,3,4-tetramethyl-5-(1-methylethenyl)-2,4-cyclopentadien-1-yl]diiron, Fe-01975
- 52520-21-5 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron(2+); *trans-form*, Bis(hexafluorophosphate), *in* Fe-01233
- 52537-38-9 1-Acetyl-1',3-di-*tert*-butylferrrocene, Fe-01690
- 52571-37-6 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(dimethylstibino)iron, Fe-00448
- 52571-39-8 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-carboxylic acid]iron, Fe-00252
- 52571-40-1 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-carboxylic acid]iron; Me ester, *in* Fe-00252
- 52573-38-3 Tetracarboxylbis(pentafluorophenyl)iron, Fe-01368
- 52586-83-1 Tetrakis(benzenethiolato)tetra- μ_3 -thioxotetraferate(2-); Bis(tetrabutylammonium) salt, *in* Fe-01840
- 52613-73-7 Tetracarboxyl[(2,3- η)-2-butenic acid]iron; Me ester, *in* Fe-00278
- 52627-89-1 Tetrakis(benzenethiolato)tetra- μ_3 -thioxotetraferate(2-), Fe-01840
- 52633-44-0 1-Acetyl-3-phenylferrrocene, Fe-01561
- 52669-13-3 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron(1+); *cis-form*, Hexafluorophosphate, *in* Fe-01232
- 52680-31-6 Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(ferrocenylcarbonyl)tungsten, Fe-01603
- 52689-74-4 1-Acetyl-2-phenylferrrocene, Fe-01560
- 52690-58-1 1,2-Diferrocenylethylene; (*Z*)-*form*, *in* Fe-01764
- 52732-81-7 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(methanethiolato)]diiron(1+); *trans-form*, Hexafluorophosphate, *in* Fe-01232
- 52732-87-3 Bis[μ -(benzenethiolato)dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron(1+); Tetraphenylborate, *in* Fe-01831
- 52827-36-8 Tris(η^5 -2,4-cyclopentadien-1-yl)ferrocenyluranium, Fe-01909
- 52856-44-7 Bis[μ -(benzenethiolato)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron(2+); *cis-form*, Bis(hexafluorophosphate), *in* Fe-01832
- 52949-47-0 Bis[μ -(benzenethiolato)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron(2+); *trans-form*, Bis(hexafluorophosphate), *in* Fe-01832
- 52970-00-0 2-Ferrocenylcyclic AMP, Fe-01679
- 52993-12-1 Tricarbonyl[(2,3,4,5- η)-2,4-hexadiene]iron; *syn, syn-form*, *in* Fe-00433
- 52993-13-2 Tricarbonyl[(1,2,3,4- η)-2-methyl-1,3-pentadiene]iron; *syn-form*, *in* Fe-00434
- 52993-14-3 Tricarbonyl[(1,2,3,4- η)-2-methyl-1,3-pentadiene]iron; *anti-form*, *in* Fe-00434
- 52993-15-4 Tricarbonyl[(1,2,3,4- η)-4-methyl-1,3-pentadiene]iron, Fe-00436
- 52993-16-5 Tricarbonyl[(2,3,4,5- η)-2,4-hexadiene]iron; *syn, anti-form*, *in* Fe-00433
- 52993-20-1 (η^4 -1,3-Butadiene)carbonylbis(phosphorous trifluoride)iron, Fe-00083
- 52993-22-3 (η^4 -1,3-Butadiene)tris(phosphorous trifluoride)iron, Fe-00048
- 53062-47-8 Dicarboxylnitrosyl[(1,2,3- η)-4-(trimethylphosphonio)-2-cyclobuten-1-yl]iron(1+); Hexafluorophosphate, *in* Fe-00453
- 53080-65-2 Tricarbonyl[(1,2,3- η)-1,4-dimethyl-5-oxo-2-hexenyl-*O*]iron(1+), Fe-00773
- 53080-66-3 [(1,2,3- η)-2-Butene-1,4-diyl]oxycarbonyl]tricarboxyliron, Fe-00275
- 53096-84-7 (η^5 -2,4-Cyclopentadien-1-yl)[(4a,5,6,7,7a- η)-1,2,3,4-tetrahydro-4a*H*-2-pyridin-4a-yl]iron; *N*-Me, *in* Fe-01081
- 53096-88-1 (η^5 -2,4-Cyclopentadien-1-yl)[(4a,5,6,7,7a- η)-3,4-dihydro-4a*H*-2-pyridin-4a-yl]iron, Fe-01063
- 53110-58-0 (Ethyl sorbate)iron tricarbonyl, *in* Fe-00408
- 53110-59-1 Tricarbonyl[(1,2,3- η)-1,4-dimethyl-5-oxo-2-hexenyl-*O*]iron(1+); Hexafluorophosphate, *in* Fe-00773
- 53110-60-4 Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadien-1-ol]iron; *endo-form*, *in* Fe-00399
- 53203-69-3 ▸ Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-); Tetraethylphosphonium salt, *in* Fe-00194
- 53203-71-7 ▸ Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-); Tetramethylphosphonium salt, *in* Fe-00194
- 53203-86-4 Nonacarbonyl[μ_3 -[ethanaminato(2-)]- μ_3 -imidotriiron, Fe-00665
- 53204-11-8 Bis(η^4 -1,3-butadiene)(triphenylphosphine)iron, Fe-01938
- 53248-31-0 Tetracarboxylbis(trimethylsilyl)iron, Fe-00645
- 53248-31-0 Tetracarboxylbis(trimethylsilyl)iron; *cis-form*, *in* Fe-00645
- 53260-81-4 Tetrakis(benzenethiolato)tetra- μ_3 -thioxotetraferate(2-); Bis(tetraphenylarsonium) salt, *in* Fe-01840
- 53265-81-9 Ferrocenyldiphenylmethylum(1+); Tetrafluoroborate, *in* Fe-01791
- 53275-22-2 Tricarbonylbis(phosphorous trifluoride)iron, Fe-00014
- 53276-79-2 Bis[μ_3 -[2-methyl-2-propanaminato(2-)]-tetrakisiron, Fe-00326
- 53276-80-5 Tetranitrosyltetra- μ_3 -thioxotetrairon, Fe-02221
- 53317-88-7 ▸ Tetracarboxyl(pyridine)iron, Fe-00348
- 53318-89-1 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(1-ethoxyethylidene)(triphenylphosphine)iron(1+); *opt. active-form*, Tetrafluoroborate, *in* Fe-01972
- 53336-51-9 Tricarbonyl[(2,3,4,5- η)-2,3,4,5-tetrachloro-2,4-cyclopentadien-1-one]iron, Fe-00237
- 53363-10-3 Tricarbonyl[η^4 -pentahydrodicarbapentaborato(2-)]iron, Fe-00023
- 53382-43-2 (η^5 -2,4-Cyclopentadien-1-yl)[(4a,5,6,7,7a- η)-1,2,3,4-tetrahydro-4a*H*-2-pyridin-4a-yl]iron; B, HCl, *in* Fe-01081
- 53382-61-9 Bis[(1,2,3,4,5,6- η)-hexamethylbenzene]iron(1+); Hexafluorophosphate, *in* Fe-01856
- 53382-63-1 Bis[(1,2,3,4,5,6- η)-hexamethylbenzene]iron(2+); Bis(hexafluorophosphate), *in* Fe-01857
- 53407-14-0 Tricarbonyl[(1,2,3,4- η)-1-methyl-1,3-cyclobutadiene]iron, Fe-00269

- 53419-34-4 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(isocyanomethane)iron(1+); Iodide, *in* Fe-00380
- 53419-35-5 Carbonyl(cyano-C)(η^5 -2,4-cyclopentadien-1-yl)-(isocyanomethane)iron, Fe-00381
- 53419-36-6 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-bis(isocyanomethane)iron(1+); Iodide, *in* Fe-00604
- 53419-37-7 (η^5 -2,4-Cyclopentadien-1-yl)-tris(isocyanomethane)iron(1+); Iodide, *in* Fe-00776
- 53433-49-1 Tetracarboxyl(di- μ -carbonylhexacarbonyldiferrate)manganate(1-); Tetraethylammonium salt, *in* Fe-00797
- 53436-97-8 Dicarboxyl(4-chloro-2-cyclobuten-1-yl)(η^5 -2,4-cyclopentadien-1-yl)iron; *trans*-form, *in* Fe-00687
- 53436-99-0 Tetracarboxyl[μ -[(1,2- η :3,4- η)-1,3-cyclobutadiene]]bis(η^5 -2,4-cyclopentadien-1-yl)diiron(2+); Bis(hexafluorophosphate), *in* Fe-01545
- 53470-54-5 Carbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-[(1,2,3,4- η)-1,3-cyclohexadiene]iron(1+), Fe-01240
- 53470-55-6 Carbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-[(1,2,3,4- η)-1,3-cyclohexadiene]iron(1+); Tetrafluoroborate, *in* Fe-01240
- 53470-56-7 Carbonyl[(1,2,4,5- η)-1,4-cycloheptadiene]-[(1,2,3,4- η)-1,3-cyclohexadiene]iron, Fe-01251
- 53470-67-0 Carbonyl[(1,2,3,4- η)-1,3-cycloheptadiene]-[(1,2,3,4- η)-1,3-cyclohexadiene]iron, Fe-01250
- 53521-53-2 Carbonyl- η^5 -cyclopentadienyl(menthyloxymethyl)-(triphenylphosphine)iron; (*S*)_{Fe}-form, *in* Fe-02105
- 53521-54-3 Carbonyl(chloromethyl)(η^5 -2,4-cyclopentadien-1-yl)(triphenylphosphine)iron, Fe-01895
- 53521-55-4 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methoxymethyl)(triphenylphosphine)iron, Fe-01936
- 53521-56-5 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(iodomethyl)(triphenylphosphine)iron, Fe-01897
- 53532-88-0 Bromo(η^3 -1-bromo-2-propenyl)tricarbonyliron, Fe-00110
- 53535-98-1 [(*O*,2,3,4- η)-3-Buten-2-one]tricarbonyliron, Fe-00205
- 53556-09-5 Tricarbonyl(1-acetyl-1,3-cyclohexadiene)iron, Fe-00717
- 53556-24-4 Tricarbonyl[(1,2,3,4- η)-1,3-cyclohexadiene-1-carboxaldehyde]iron, Fe-00534
- 53556-27-7 3-Phenyl[5]ferrocenophan-2-ene-1,5-dione, Fe-01708
- 53556-32-4 Tricarbonyl[(3,4,5,6- η)-3,5-heptadien-2-amine]iron; *syn,syn*-form, *in* Fe-00627
- 53558-55-7 Tetracarboxylhydroferrate(1-); Na salt, *in* Fe-00042
- 53584-63-7 Carbonyl- η^5 -cyclopentadienyl(menthyloxymethyl)-(triphenylphosphine)iron; (*R*)_{Fe}-form, *in* Fe-02105
- 53584-93-3 Tricarbonyl[(4,5,6,7- η)-3a,7a-dihydro-1*H*-indene]iron, Fe-00858
- 53729-97-8 [(2,3,4,5- η)-Bicyclo[4.2.0]octa-2,4,7-triene]tricarbonyliron, Fe-00673
- 53765-58-5 Carbonylchloro(4-methylphenylazo)-bis(triphenylphosphine)iron, Fe-02167
- 53770-24-4 [(3,4,5,6- η)-6-(Acetyloxy)-3,5-hexadien-2-one]tricarbonyliron; *syn,syn*-form, *in* Fe-00724
- 53778-34-0 μ -Carboxyldicarbonylbis(η^4 -1,3-cyclobutadiene)diiron, Fe-00686
- 53778-36-2 Dicarboxyl(η^4 -1,3-cyclobutadiene)(trimethylphosphite-*P*)iron, Fe-00454
- 53778-37-3 Carbonyl(η^4 -1,3-cyclobutadiene)bis(trimethylphosphite-*P*)iron, Fe-00788
- 53789-74-5 Carbonylchloronitrosylbis(triphenylphosphine)iron, Fe-02127
- 53797-94-7 Tricarbonyl[(2,3,4,5- η)-2,4-pentadienal]iron; *anti*-form, *in* Fe-00274
- 53822-50-7 [(1,2,3- η)-2-Butene-1,4-diyl][(phenylimino)-carbonyl]tricarbonyliron, Fe-01170
- 53822-51-8 [(1,2,3- η)-2-Butene-1,4-diyl](methylimino)-carbonyl]tricarbonyliron, Fe-00418
- 53822-54-1 (η^4 -*N*-2-Butenyldieneaniline)tricarbonyliron, Fe-01039
- 53822-57-4 [(1,2,3- η)-2-Butene-1,4-diyl](iminocarbonyl)]tricarbonyliron, Fe-00288
- 53855-84-8 [μ -(Benzo[*c*]cinnoline-*N*⁵,*N*⁶)- μ -carbonylhexacarbonyldiiron, Fe-01592
- 53855-85-9 μ -Carboxylhexacarbonyl[μ -(pyridazine-*N*²,*N*³)]diiron, Fe-00656
- 53866-79-8 (1,3-Dioxobutyl)ferrocene; Ni(II) complex, *in* Fe-01206
- 53866-84-5 (1,3-Dioxobutyl)ferrocene; Cu(II) complex, *in* Fe-01206
- 53881-04-2 3-Phenyl[5]ferrocenophane, Fe-01729
- 53897-01-1 Carbonyl(cyanomethyl)(η^5 -2,4-cyclopentadien-1-yl)(triphenylphosphine)iron, Fe-01924
- 53897-03-3 Bis(cyano-C)(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)ferrate(1-); K salt, *in* Fe-01876
- 53922-85-3 Tricarbonyl[(1,2,3,4- η)-1,3,5-cyclooctatriene]iron, Fe-00716
- 53992-88-4 1-Ferrocenyl-2-methyl-1-propylamine, Fe-01262
- 54053-41-7 1-Ferrocenyl-2-methyl-1-propylamine; (*R*)-form, *in* Fe-01262
- 54053-42-8 1-Ferrocenyl-2-methyl-1-propylamine; (*S*)-form, *in* Fe-01262
- 54053-98-4 [(3,4,5,6- η)-6-(Acetyloxy)-3,5-hexadien-2-one]tricarbonyliron; *syn*-OAc-*anti*-Ac-form, *in* Fe-00724
- 54060-24-1 (Diphenylphosphinyl)ferrocene, Fe-01759
- 54060-27-4 Bis(η^5 -2,4-cyclopentadien-1-yl)[μ -[(1,2,3,3a,7b- η :4a,5,6,7,7a- η)-4,4a-dihydro-4-phenyl-1*H*-dicyclopenta[*b,d*]-phosphole-1,4a-diyl]]diiron *P*-oxide; High-melting-form, *in* Fe-01922
- 54081-38-8 Dicarboxyl(phenylazo)bis(triphenylphosphine)iron-(1+), Fe-02166
- 54083-17-9 Tetracarboxyl[η^2 -dodecahydroheptaborato(1-)]ferrate(1-); Tetraethylammonium salt, *in* Fe-00058
- 54083-18-0 Bis(η^5 -2,4-cyclopentadien-1-yl)[μ -[(1,2,3,3a,7b- η :4a,5,6,7,7a- η)-4,4a-dihydro-4-phenyl-1*H*-dicyclopenta[*b,d*]-phosphole-1,4a-diyl]]diiron *P*-oxide; Low-melting-form, *in* Fe-01922
- 54190-57-7 Tetracarboxyl(η^2 -heptaborane(11))iron, Fe-00056
- 54218-97-2 Octacarboxylbis[μ -(di-2,4-cyclopentadien-1-ylstannylene)]diiron, Fe-01959
- 54244-94-9 Hexacarboxyl[μ -(η^2 : η^4 -(3,5-cyclohexadiene-1,2-diylidenedimethylidyne))]diiron, Fe-01140
- 54309-92-1 [(1,2,3- η)-2-Butenyl]-carbonylnitrosyl(triphenylphosphine)iron, Fe-01804
- 54309-97-6 Dicarboxylnitrosyl[(1,2,3- η)-1-phenyl-2-propenyl]iron, Fe-00693
- 54343-67-8 Tri- μ -carbonylbis(tetraphenylcyclobutadiene)diiron, Fe-02198
- 54386-46-8 Tri- μ -carbonylbis(1,2-diphenyl-3,4-di-*tert*-butylcyclobutadiene)diiron, Fe-02187
- 54446-60-5 Tricarbonyl[*N,N'*-1,2-ethanediyldienebis[2-methyl-2-propanamine]]iron, Fe-01119
- 54446-62-7 Tricarbonyl[*N,N'*-1,2-ethanediyldienebis[2-propanamine]-*N,N'*]iron, Fe-00784
- 54446-63-8 Tricarbonyl[*N,N'*-1,2-ethanediyldienebis(cyclohexanamine)-*N,N'*]iron, Fe-01505
- 54497-50-6 Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1-methyl-2,3,4-triphenyl-2,4-cyclopentadien-1-yl]diiron, Fe-02189
- 54497-51-7 Dicarboxylnitrosyl[(1,2,3,4,5- η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl]iron, Fe-01332
- 54510-22-4 Di- μ -carbonyldicarbonylbis[(1,2,3,3a,7a- η)-1-methyl-1*H*-inden-1-yl]diiron, Fe-01818
- 54510-27-9 Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl]diiron, Fe-01963
- 54516-73-3 Acetylcarbonyl[(1,2,3,4,5- η)-1-methyl-3-phenyl-2,4-cyclopentadien-1-yl]-[triphenylphosphine]iron, Fe-02081
- 54633-81-7 (Dithiocarboxy)ferrocene, Fe-00726
- 54633-93-1 (Dithiocarboxy)ferrocene; Cu salt, *in* Fe-00726
- 54688-69-6 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-hexamethylbenzene]iron(1+), Fe-01503

- 54688-79-8 Tricarbonyl[(1,2,3,4,5- η)-3,4-diethyl-2,5-dihydro-2,5-dimethyl-1,2,5-thiadiborole]iron, Fe-00783
- 54688-85-6 [Bis(dimethylamino)methylene]tetracarbonyliron, Fe-00451
- 54724-04-8 Ammonium heptanitrosyl trithiotetraferate, *in* Fe-02222
- 54747-09-0 1-[(Dimethylamino)methyl]-2-lithioferrocene, Fe-01098
- 54748-47-9 Tricarbonyl[(1,2,3,4- η)-tetraborane(8)]iron, Fe-00024
- 54762-67-3 1,3-Dithian-2-ylferrocene, Fe-01230
- 54762-70-8 [(Trimethylsilyl)carbonyl]ferrocene, Fe-01253
- 54775-78-9 Carbonyl[(1,2,3,4- η)-1,3-cyclohexadiene]-[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]iron(1+); Tetrafluoroborate, *in* Fe-01083
- 54775-80-3 Carbonyl[(1,2,3,4- η)-1,3-cycloheptadiene]-[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]iron(1+); Tetrafluoroborate, *in* Fe-01109
- 54775-82-5 Carbonyl[(1,2,3,4- η)-1,3-cycloheptadiene]-[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iron(1+); Tetrafluoroborate, *in* Fe-01352
- 54835-01-7 Tricarbonyl[(1,2,3,4,5- η)-2,4-cyclooctadien-1-yl]iron(1+), Fe-00744
- 54845-16-8 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3a,7a- η)-1*H*-inden-1-yl]iron, Fe-01175
- 54853-77-9 Di- μ -carbonyldicarbonylbis[(1,2,3,4,5,6- η)-1-phenylboratabenzene]diiron, Fe-01917
- 54853-78-0 Di- μ -carbonylbis[(1,2,3,4,5,6- η)-1-methylboratabenzene]diiron, Fe-01417
- 54853-79-1 Bis[(1,2,3,4,5,6- η)-1-phenylboratabenzene]iron, Fe-01761
- 54853-80-4 Bis[(1,2,3,4,5,6- η)-1-methylboratabenzene]iron, Fe-00965
- 54854-43-2 Tetracarbonyl(4,4,5,5-tetramethyl-1,3-dioxolan-2-ylidene)iron, Fe-00758
- 54854-81-8 Hexacarbonyl[μ -[(1,2,3,4- η)-1,4-dihydroxy-1,3-butadiene-1,4-diyl]]diiron, Fe-00483
- 54926-71-5 Pentakis(trimethyl phosphite-*P*)iron, Fe-01366
- 54926-72-6 Pentakis(triethyl phosphite-*P*)iron, Fe-02024
- 54967-76-9 [μ -[(2,3,4,5,6- η :2',3',4',5',6'- η)-[bi-3,5-cyclohexadien-1-yl]-2,2'-diyl]]bis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01770
- 55046-73-6 Hydripentakis(trimethyl phosphite-*P*)iron(1+); Hexafluorophosphate, *in* Fe-01367
- 55046-75-8 Carbonyltetrakis(trimethyl phosphite-*P*)iron, Fe-01127
- 55053-63-9 (η^6 -Benzene)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetraphenylborate, *in* Fe-00734
- 55073-27-3 Bis[(7,8,9,10,11,12- η)-dodecahydro-7,9-dicarbododecaborato(2-)]ferrate(2-), Fe-00062
- 55086-70-9 Methylpentakis(trimethyl phosphite-*P*)iron(1+); Hexafluorophosphate, *in* Fe-01467
- 55095-52-8 Tetracarbonyl[(3,4- η)-4-phenyl-3-buten-2-one]iron, Fe-01157
- 55102-03-9 Tetracarbonyl(cyanomethyl)ferrate(1-); Tl(1+) salt, *in* Fe-00102
- 55104-10-4 Benzoyltetracarbonylferrate(1-); Tl(1+) salt, *in* Fe-00659
- 55188-22-2 μ -Carbonyldecacarbonyl- μ -hydrotriferrate(1-), Fe-00653
- 55280-55-2 Bis[(1,2,3,4,5,6- η)-hexamethylbenzene]iron, Fe-01855
- 55337-24-1 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,2'-dimethoxyethyl)iron, Fe-00779
- 55337-27-4 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)[(1,2- η)-methoxyethene]iron(1+); Hexafluorophosphate, *in* Fe-00608
- 55351-93-4 2,3-Diferrocenyl-1,3-butadiene, Fe-01847
- 55451-24-6 (η^5 -2,4-Cyclopentadien-1-yl)-iodobis(isocyanobenzene)iron, Fe-01610
- 55451-26-8 (η^5 -2,4-Cyclopentadien-1-yl)-iodonitrosyl(triphenyl phosphite-*P*)iron(1+); Hexafluorophosphate, *in* Fe-01796
- 55451-28-0 (η^5 -2,4-Cyclopentadien-1-yl)-tris(isocyanobenzene)iron(1+); Hexafluorophosphate, *in* Fe-01920
- 55451-30-4 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-bis(isocyanobenzene)iron(1+); Hexafluorophosphate, *in* Fe-01655
- 55451-33-7 Dicarbonyl[(1,2- η)-1,3-cyclobutadiene](η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-00698
- 55451-63-3 Tricarbonyl(vinylcyclobutadiene)iron, Fe-00353
- 55630-58-3 1-[1-(Dimethylamino)ethyl]-2-(diphenylphosphino)ferrocene; (*S*)_C(*R*)_{planar}-form, *in* Fe-01939
- 55650-59-4 1-(1-Dimethylaminoethyl)-1',2'-bis(diphenylphosphino)ferrocene, Fe-02141
- 55658-16-7 Tetracarbonyl[(dimethylamino)carbonyl]ferrate(1-), Fe-00197
- 55672-79-2 Dicarbonyl-1,3,5,7-cyclooctatetraen-1-yl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01307
- 55672-81-6 Tetracarbonyl[1-[(dimethylamino)methyl]-2-(diphenylphosphino)ferrocene-*P*]iron, Fe-01996
- 55679-70-4 Dichlorodinitrosylferrate(1-), Fe-02207
- 55700-44-2 1-[1-(Dimethylamino)ethyl]-2-(diphenylphosphino)ferrocene; (*R*)_C(*S*)_{planar}-form, *in* Fe-01939
- 55729-63-0 Tricarbonyl[(1,2,3,4,5- η)-2,4-cyclooctadien-1-yl]iron(1+); Tetrafluoroborate, *in* Fe-00744
- 55729-64-1 Tricarbonyl[(1,2,3,5,6- η)-2,5-cyclooctadien-1-yl]iron(1+), Fe-00745
- 55729-65-2 Tricarbonyl[(1,2,3,5,6- η)-2,5-cyclooctadien-1-yl]iron(1+); Tetrafluoroborate, *in* Fe-00745
- 55744-14-4 Dicarbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl](triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-01951
- 55787-43-4 Undecacarbonyl(triphenyl phosphite)triiron, Fe-01983
- 55787-46-7 Di- μ -carbonyldecacarbonyltriferrate(1-), Fe-00800
- 55800-08-3 Bis[dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron]-magnesium; bis-THF solvate, *in* Fe-01161
- 55823-33-1 $\triangleright$ Bis[(1,2,5,6- η)-1,5-cyclooctadiene]iron, Fe-01452
- 55853-16-2 Dichlorobis(trimethylphosphine)iron, Fe-00142
- 55886-19-6 Tetracarbonyl(cyano-*C*)ferrate(1-); Tl(1+) salt, *in* Fe-00065
- 55906-07-5 Bis[(2,3,4,5- η)-tetramethylthiophene-*S*]iron(2+); Bis(hexafluorophosphate), *in* Fe-01456
- 55938-83-5 Dicarbonyl[(1,3,4,5- η)-4-cycloheptene-1,3-diyl](triphenylphosphine)iron, Fe-01954
- 55938-88-0 Tricarbonyl[(1,4,5,6- η)-8-cyano-5-cyclooctene-1,4-diyl]iron, Fe-00882
- 55954-86-4 Tricarbonyl[(1,2,3,4- η)-5-methoxy-1,3-cyclohexadiene]iron; *endo*-form, *in* Fe-00586
- 55960-25-3 Tetracarbonyl[1-[(dimethylamino)methyl]-2-(diphenylphosphino)ferrocene-*N,P*]chromium, Fe-01991
- 55976-22-2 μ -Carbonyldecacarbonyl- μ -hydrotriferrate(1-); Tetraethylammonium salt, *in* Fe-00653
- 55979-13-0 [(5,6- η)-3,8-Di-*tert*-butyl-2,2,9,9-tetramethyl-3,4,5,6,7-decapentaene]tetracarbonyliron, Fe-01942
- 55992-19-3 Decacarbonyl- μ -hydro[μ -(methoxymethylidyne)]triiron, Fe-00809
- 56009-58-6 Bromo(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediy]bis(diphenylphosphine)-*P,P'*]iron(1+); Hexafluorophosphate, *in* Fe-02041
- 56009-64-4 Chloro(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediy]bis(diphenylphosphine)-*P,P'*]iron(1+); Hexafluorophosphate, *in* Fe-02043
- 56045-61-5 [3][3][3](1,2,4)Ferrocenophane, Fe-01634
- 56081-86-8 (2-Chloroethyl)ferrocene, Fe-00920
- 56083-12-6 [(1,2,3- η)-2-Butenyl]tetracarbonyliron(1+), Fe-00293
- 56178-31-5 Tricarbonyl(η^5 -2,4-pentadienyl)iron(1+); Tetrachloroaluminate, *in* Fe-00292
- 56235-39-3 Tricarbonyl(1-acetyl-2,4-cyclohexadiene)iron, Fe-00718
- 56259-77-9 (Carbon)tridecacarbonylbis(triphenyl phosphite)-pentairon, Fe-02185
- 56259-78-0 (Carbon)-dodecacarbonyltris(dimethylphenylphosphine)-pentairon, Fe-02130

- 56259-79-1 (Carbon)tetradecacarbonyl(triphenylphosphine)pentairon, Fe-02074
- 56259-90-6 (Carbon)tetradecacarbonylpentaferate(2-), Fe-01284
- 56280-09-2 μ -Carbonylhexacarbonylbis[μ -(dibutylstannylene)]-diiron, Fe-01809
- 56285-03-1 Bis[(1,2,3,3a,7a- η)-1,3-Dimethyl-1*H*-inden-1-yl]iron(1+); Hexafluorophosphate, *in* Fe-01768
- 56315-41-4 (η^4 -1,3-Butadiene)tris(trimethylphosphine)iron, Fe-01125
- 56323-91-2 Tricarbonylbis[(2,3- η)-methyl-2-propenoate]iron, Fe-00759
- 56329-28-3 (Carbon)tetradecacarbonylpentaferate(2-); Bis-(tetraethylammonium) salt, *in* Fe-01284
- 56362-67-5 Dihydotetrakis(trimethylphosphine)iron, Fe-00985
- 56362-67-5 Dihydotetrakis(trimethylphosphine)iron; *cis*-form, *in* Fe-00985
- 56421-55-7 Nonacarbonyl- μ -hydro[μ_3 -(2-methyl-2-propanethiolato)]triiron, Fe-01035
- 56448-44-3 Tetracarbonyl(2-isocyano-2-methylpropane)iron, Fe-00419
- 56483-18-2 [1-[(Carboxymethyl)thio]ethyl]ferrocene, Fe-01227
- 56498-34-1 [1-[(Carboxymethyl)thio]ethyl]ferrocene; (*R*)-form, *in* Fe-01227
- 56498-35-2 [1-[(Carboxymethyl)thio]ethyl]ferrocene; (*S*)-form, *in* Fe-01227
- 56508-17-9 Tricarbonyl[(1,2,3,8- η)-1-methyl-1,3,5,7-cyclooctatetraene]iron, Fe-00859
- 56508-18-0 Tricarbonyl[(4,5,6,7- η)-2,3,3a,7a-tetrahydro-1*H*-inden-1-one]iron, Fe-00867
- 56551-48-5 Tricarbonyl[(4,5,6,7- η)-2,4,6-cyclooctatrien-1-ol]iron, Fe-00720
- 56551-49-6 1,2-Diferrocenylcyclopropenone, Fe-01789
- 56552-65-9 [1-[(Carboxymethyl)thio]ethyl]ferrocene; (*S*)-form, Ephedrine salt, *in* Fe-01227
- 56552-66-0 [1-[(Carboxymethyl)thio]ethyl]ferrocene; (*R*)-form, Ephedrine salt, *in* Fe-01227
- 56557-53-0 Octacarbonyl[μ -(3,3-dimethyl-3*H*-diazirine-*N*¹,*N*²)]diiron, Fe-00663
- 56558-02-2 Hexacarbonyl[μ -(cyanato-*N*:*N*)] [μ -(2-propaniminato)]diiron, Fe-00497
- 56581-58-9 ▶ Triferrocenylcyclopropenylmethyl(1+); Perchlorate, *in* Fe-02079
- 56586-69-7 (Hydroxyphenylmethyl)ferrocene; (*R*)-form, *in* Fe-01495
- 56607-23-9 Diferrocenylphenylmethylm(1+); Tetrafluoroborate, *in* Fe-01950
- 56665-16-8 Tricarbonyl[(2,3,4,5- η)-1,1-dimethylsilacyclohexa-2,4-diene]iron, Fe-00622
- 56665-21-5 Hexacarbonyl[μ -[(1,2- η :1,2- η)-ethynyl]-ferrocene]]dicobalt, Fe-01516
- 56687-33-3 Bis(η^4 -1,3-butadiene)(trimethyl phosphite-*P*)iron, Fe-00787
- 56708-99-7 (2-Acetylferrocenyl-*C*,*O*)tetracarbonylmanganese, Fe-01380
- 56731-29-4 Dodecacarbonyl- μ -hydro[μ_4 -(hydroxymethylidyne-*C*:*C*:*C*:*C*,*O*)]tetrairon, Fe-01001
- 56732-46-8 [11]Ferrocenophan-6-one, Fe-01731
- 56732-47-9 [15]Ferrocenophan-8-one, Fe-01913
- 56732-49-1 1,1'-Ferrocenedibutanoic acid, Fe-01577
- 56732-55-9 1,1'-Bis(7-chloroheptyl)ferrocene, Fe-01854
- 56778-61-1 1,1'-Bis(5-chloropentyl)ferrocene, Fe-01688
- 56791-54-9 Tetracarbonylhydroferrate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00042
- 56800-59-0 3-Phenyl(ferrocenecarboxylic acid), Fe-01485
- 56811-01-9 Tetracarbonyl(1,4-dioxo-2-butene-1,4-diyl)iron, Fe-00248
- 56902-54-6 μ_3 -Carbonylnonacarbonyl[μ_3 -[ethanaminato(2-)]]-triiron, Fe-00813
- 56907-95-0 Carbonyl(chloromethyl)(η^5 -2,4-cyclopentadien-1-yl)(triphenylphosphine)iron; (+)-form, *in* Fe-01895
- 56907-96-1 Carbonyl(chloromethyl)(η^5 -2,4-cyclopentadien-1-yl)(triphenylphosphine)iron; (-)-form, *in* Fe-01895
- 56907-97-2 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-methyl(triphenylphosphine)iron; (+)-form, *in* Fe-01903
- 56907-99-4 Benzylcarbonyl- π -cyclopentadienyl(triphenylphosphine)iron; (-)-form, *in* Fe-02034
- 56943-25-0 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(isocyanomethane)iron(1+); Hexafluorophosphate, *in* Fe-00380
- 56977-51-6 Dicarboxyl[(1,2,3,4,5- η)-2,4-cyclooctadien-1-yl]iodoiron, Fe-00597
- 56977-53-8 Dicarboxyl- η^5 -cyclopentadienyl(menthyloxymethyl)iron, Fe-01588
- 56977-62-9 Tetracarbonyl[(1,2-phenylenebis(dimethylsilylene))]iron, Fe-01229
- 56977-63-0 [μ -[1,2,4,5-Benzenetetrayltetrakis(dimethylsilylene)]]octacarbonyldiiron, Fe-01774
- 57048-39-2 Tetracarbonyl[(dimethylamino)carbonyl]ferate(1-); Tris(dimethylamino)methylm salt, *in* Fe-00197
- 57087-66-8 Tricarbonyl(5-phenyl-1,3-cyclohexadiene)iron, Fe-01312
- 57128-01-5 Triferrocenylthallium, Fe-02012
- 57142-18-4 Hexacarbonyl[μ -[(3,4- η :3,4- η)-2,2,5,5-tetramethyl-3-hexyne]]diiron, Fe-01429
- 57142-21-9 Tricarbonyl[(1,2,3,8- η)-1-phenyl-1,3,5,7-cyclooctatetraene]iron, Fe-01475
- 57142-22-0 Tricarbonyl[methyl(3,4,5,6- η)-1,3,5,7-cyclooctatetraene-1-carboxylate]iron, Fe-01031
- 57158-80-2 Bis(η^5 -2,4-cyclopentadien-1-yl)[μ -(η^5 : η^6 -1-phenyl-2,4-cyclopentadien-1-yl)]diiron(1+), Fe-01721
- 57214-94-5 Hexacarbonyl[μ -[(1,2,5- η :1,4,5- η)-3-oxo-1,2,4,5-tetraphenyl-1,4-pentadiene-1,5-diyl]]diiron, Fe-02099
- 57327-05-6 Tricarbonyl[η^4 -carbonyloxy(1,4-dimethyl-2-butene-1,4-diyl)]iron; (1*SR*,2*SR*,3*SR*)-form, *in* Fe-00588
- 57327-11-4 1,1',3,3'-Tetraphenylferrocene, Fe-02089
- 57328-03-7 Tricarbonyl[η^4 -carbonyloxy(1,4-dimethyl-2-butene-1,4-diyl)]iron; (1*SR*,2*SR*,4*RS*)-form, *in* Fe-00588
- 57349-48-1 Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadiene-1-sulfonic acid]iron; *exo*-form, *in* Fe-00412
- 57358-31-3 Dicarboxydimethylbis(trimethylphosphine)iron, Fe-00650
- 57363-02-7 1,1'-Bis(aminosulfonyl)ferrocene, Fe-00617
- 57378-04-8 Tricarbonyl[η^4 -carbonyloxy(1,4-dimethyl-2-butene-1,4-diyl)]iron; (1*RS*,2*SR*,4*SR*)-form, *in* Fe-00588
- 57378-63-9 Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadiene-1-sulfonic acid]iron; *exo*-form, 4-Methylanilinium salt, *in* Fe-00412
- 57386-72-8 Carbonyl(cyano-*C*)(η^5 -2,4-cyclopentadien-1-yl)-(trimethylphosphine)iron, Fe-00631
- 57386-75-1 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-iodo(trimethylphosphine)iron, Fe-00459
- 57407-41-7 [(3,4,5,6- η)-Bicyclo[5.1.0]octa-3,5-dien-2-one]tricarboxyliron, Fe-00681
- 57407-43-9 Tricarbonyl[(3,4,5,6- η)-8-methylbicyclo[5.1.0]-octa-3,5-dien-2-one]iron; (1 α ,7 α ,8 α)-form, *in* Fe-00866
- 57408-20-5 [(1,6,7,8- η)-Bicyclo[4.2.0]octa-1,3,5,7-tetraene]dicarbonyl(triphenylphosphine)iron, Fe-01960
- 57412-84-7 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-6-phenyl-2,4-cyclohexadien-1-yl]iron, Fe-01493
- 57428-46-3 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(dimethylstannylene)]diiron, Fe-01344
- 57431-29-5 Tricarbonyl[(1,2,3- η)-2,4,7-cyclooctatrien-1-yl]iodoiron, Fe-00689
- 57457-36-0 Tricarbonyl[(3,4,5,6- η)-8-methylbicyclo[5.1.0]-octa-3,5-dien-2-one]iron; (1 α ,7 α ,8 β)-form, *in* Fe-00866

- 57481-97-7 Dicarboxyl(cyano-C)[(1,2,3,4- η)-1,3-cyclohexadiene]ferrate(1-); Na salt, *in* Fe-00379
- 57481-98-8 Dicarboxyl(cyano-C)[(1,2,3,4- η)-1,3,5,7-cyclooctatetraene]ferrate(1-); Na salt, *in* Fe-00671
- 57515-20-5 Tricarbonyl[(1,2,3,4- η)-1,2-di-*tert*-butyl-1,3-cyclobutadiene]iron, Fe-01355
- 57515-21-6 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1,2-dimethanol]iron, Fe-00407
- 57515-22-7 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1,2-dicarboxaldehyde]iron, Fe-00344
- 57515-23-8 Tricarbonyl[(1,2,3,4- η)-1,2-divinyl-1,3-cyclobutadiene]iron, Fe-00676
- 57533-56-9 Chlorodiferrocenylphosphine, Fe-01665
- 57535-35-0 Tricarbonyl[(4,5,6,7- η)-1*H*-1,2-diazepine]iron; CF₃COOH compd., *in* Fe-00267
- 57535-36-1 Tricarbonyl[(4,5,6,7- η)-1*H*-1,2-diazepine]iron; 1-Me, *in* Fe-00267
- 57596-20-0 Tricarbonyl[(*O*,1,2,3- η)-1-phenyl-2-buten-1-one]iron, Fe-01026
- 57635-44-6 Tricarbonyl[(1,2,3,4- η)-1-chloro-1,3-cyclohexadiene]iron, Fe-00363
- 57635-45-7 Tricarbonyl[(1,2,3,4- η)-2-chloro-1,3-cyclohexadiene]iron, Fe-00364
- 57665-43-7 Tricarbonyl[(2,3,4,5- η)-oxepin]iron, Fe-00356
- 57676-67-2 Bis[(3*a*,4,5,6,6*a*- η)-1,2,3-trimethylcyclopenta[*b*]pyrrol-3*a*(1*H*)-yl]iron, Fe-01684
- 57676-70-7 Dicarboxyl[(2,3,4,5- η)-2,4,6-cycloheptatrien-1-one](triphenylphosphine)iron, Fe-01947
- 57692-67-8 [(1,2,3,4,5,6- η)-2-Acetyl-1-methylboratabenzene][(1,2,3,4,5,6- η)-1-methylboratabenzene]iron, Fe-01241
- 57692-68-9 Bis(1-*tert*-butylborabenzene)iron, Fe-01589
- 57774-48-8 Di- μ -carbonyldicarbonyl[μ -[(1,2,3,4,5- η :1',2',3',4',5'- η)-(1,1,2,2-tetramethyl-1,2-ethenediyl)]di-2,4-cyclopentadien-1-ylidene]]diiron, Fe-01680
- 57774-50-2 Di- μ -carbonyldicarbonyl[μ -[(1,2,3,4,8*a*- η :1',2',3',4',8*a*'- η)-1,1',4,4'-tetrahydro[4,4'-biazulene]-1,1'-diyl]]diiron, Fe-01815
- 57811-70-8 (1-Piperidinylmethyl)ferrocene, Fe-01441
- 57812-06-3 1-Acetyl-1'-(chloroacetyl)ferrocene, Fe-01186
- 57812-18-7 Bromo[dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-iron]magnesium, Fe-00172
- 57816-29-2 Tricarbonyl(η^3 -2-propenyl)ferrate(1-); Na salt, *in* Fe-00123
- 57842-64-5 Tricarbonyl(2,4-cyclopentadien-1-ylidenediphenylmethane)iron, Fe-01700
- 57884-64-7 (Hydroxyphenylmethyl)ferrocene; (*S*)-*form*, *in* Fe-01495
- 57896-95-4 Tricarbonyl(η^5 -2,4-pentadienyl)iron(1+); Hexafluorophosphate, *in* Fe-00292
- 57973-17-8 (*N*-Carboethoxy-1,2-dihydropyridine)tricarbonyliron, *in* Fe-00373
- 57973-18-9 (*N*-Carbomethoxy-1,2-dihydropyridine)tricarbonyliron, *in* Fe-00373
- 58058-00-7 1,1'-(Diphenylsilylene)ferrocene, Fe-01752
- 58058-01-8 1,1',1'',1'''-Silanetetraylbisferrocene, Fe-01663
- 58150-39-3 [(1,6,7,8- η)-Bicyclo[4.2.0]octa-1,3,5,7-tetraene]dicarbonylnitrosyliron(1+); Hexafluorophosphate, *in* Fe-00492
- 58204-17-4 Roussin's red salt, *in* Fe-02220
- 58257-86-6 Tricarbonyl(η^3 -2-propenyl)iron, Fe-00124
- 58356-41-5 Tricarbonyl[(1,2,3,4- η)-3-methyl-1,3-pentadiene]iron, Fe-00435
- 58384-30-8 Benzylidiphenylferrocenylphosphonium(1+); Chloride, *in* Fe-01994
- 58396-62-6 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-methanol]iron, Fe-00271
- 58396-63-7 Tricarbonyl[(1,2,3,4- η)- α -methyl-1,3-cyclobutadiene-1-methanol]iron, Fe-00403
- 58396-65-9 Tricarbonyl[α -[(1,2,3,4- η)-1,3-cyclobutadien-1-yl]benzenemethanol]iron, Fe-01152
- 58452-24-7 Tricarbonylbis(isocyanobenzene)iron, Fe-01471
- 58463-77-7 1,1''-Selenobisferrocene, Fe-01671
- 58463-78-8 1,1''-Diselenobisferrocene, Fe-01672
- 58463-80-2 Selenocyanatoferrocene, Fe-00697
- 58465-89-7 [(2,3,4,5,6- η)-Bicyclo[5.1.0]octa-3,5-dien-2-yl]tricarbonyliron(1+); Tetrafluoroborate, *in* Fe-00700
- 58482-65-8 (4-Bromophenyl)ferrocene, Fe-01392
- 58527-46-1 Tricarbonyl(η^4 -1,3-cyclobutadiene-1-sulfonic acid)iron; Chloride, *in* Fe-00167
- 58527-50-7 Tricarbonyl(η^4 -1,3-cyclobutadien-1-amine)iron; *N,N*-Di-Me, *in* Fe-00191
- 58615-86-4 Hexacarbonyl[μ -(η^5 -2,4-cyclopentadien-1-ylidenemethylene)]diiron, Fe-00818
- 58616-62-9 Di- μ -chlorobis[2-[(dimethylamino)methyl]-ferrocenyl-*C,N*]dipalladium, Fe-01941
- 58616-69-6 [2-[(Dimethylamino)methyl]ferrocenyl-*C,N*]-[2,4-pentanedionato-*O,O'*]palladium, Fe-01578
- 58803-11-5 [3][3](1,2,3)Ferrocenophane, Fe-01633
- 58846-86-9 Bis[(2,3,4,6- η)-pentahydro-4,5-dimethyl-4,5-dicarbahehexaborato(1-)-*H*⁺]iron, Fe-00327
- 58894-90-9 Tetracarbonylbis(trimethylgermyl)iron; *cis-form*, *in* Fe-00644
- 58939-06-3 Tricarbonyl[(1,2,3,5- η)-1,5-diphenyl-2-pentene-1,5-diyl]iron, Fe-01660
- 58939-19-8 Tricarbonyl[(2,3,4,5,6- η)-1,1-dimethylsilacyclohexa-3,5-dien-2-yl]iron(1+); Hexafluorophosphate, *in* Fe-00611
- 59034-03-6 [(1,2,3,4- η)-1,3-Cyclooctadiene]tris(trimethylphosphite-*P*)iron, Fe-01509
- 59034-82-1 Hexacarbonyl[μ -(η^4 : η^4 -1,3-diethenylbenzene)]diiron, Fe-01377
- 59034-84-3 Hexacarbonyl[μ -(η^4 : η^4 -1,4-diethenylbenzene)]diiron, Fe-01378
- 59034-88-7 Hexacarbonyl[μ -[η^2 : η^4 -1,2-phenylene(2-phenyl-1,2-ethenediyl)]]diiron, Fe-01646
- 59060-85-4 Dicarboxyl(cyano-C)nitrosylferrate(2-); Di-K salt, *in* Fe-00018
- 59060-86-5 Carbonylbis(cyano-C)nitrosylferrate(3-); Tri-K salt, *in* Fe-00019
- 59120-16-0 Tricarbonyl[(3,4- η)-2,5-dihydrothiophene 1-oxide-*O*]iron, Fe-00207
- 59124-91-3 [3][3](1,3)Ferrocenophane-1-one, Fe-01421
- 59160-82-6 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-hydro(triphenyl phosphite-*P*)iron, Fe-01843
- 59172-32-6 Tricarbonyl(2-phenyl-1,3-cyclohexadiene)iron, Fe-01311
- 59172-33-7 Tricarbonyl[(2,3,4,5- η)-6,6-dimethyl-2,4-cyclohexadien-1-one]iron, Fe-00721
- 59183-95-8 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,4*a*,8*a*- η)-naphthalene]iron(1+); Hexafluorophosphate, *in* Fe-01322
- 59187-97-2 [2.2]Ferrocenophane-1,13-diyne, Fe-01814
- 59200-87-2 [μ_6 -(Carbon)]tri- μ -carbonyltridecacarbonylhexaferate(2-), Fe-01468
- 59308-19-9 (2-Iodoethyl)ferrocene, Fe-00926
- 59308-20-2 (2-Nitroethyl)ferrocene, Fe-00928
- 59349-64-3 (Bromomethyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenylphosphine)iron, Fe-01893
- 59349-66-5 Dicarboxyl(carboxymethyl)- π -cyclopentadienyliron menthyl ester, Fe-01639
- 59367-39-4 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methylsulfonyl)(triphenylphosphine)iron; (-)-*form*, *in* Fe-01905
- 59367-40-7 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methylsulfonyl)(triphenylphosphine)iron; (+)-*form*, *in* Fe-01905
- 59388-97-5 Bromodicarbonyl(η^3 -2-propenyl)-(triphenylphosphine)iron, Fe-01794
- 59390-34-0 Dicarboxyl(cyano-C)nitrosylferrate(2-); Bis(tetraphenylphosphonium) salt, *in* Fe-00018
- 59400-27-0 Tetracarbonyl(2,3-dimethyl-1,4-dioxo-2-butene-1,4-diyl)iron, Fe-00496
- 59400-28-1 Tetracarbonyl(1,2-phenylenedicarbonyl)iron, Fe-00807
- 59418-34-7 (2,4-Cyclopentadien-1-ylidenemethyl)ferrocene, Fe-01398
- 59418-43-8 1-[(Dimethylamino)methyl]-2-phenylferrocene, Fe-01632
- 59418-45-0 μ -1,1'-Ferrocenediylidisodium, Fe-00521
- 59420-03-0 (η^4 -*N*-2-Butenyldiene-2-methyl-2-propanamine)tricarbonyliron, Fe-00780

- 59421-56-0 Hexacarbonyl[μ -[(1,4,5- η :2,3,4,5- η)-pentahydro-2,4-dicarbapentaborato(2-)]diiron, Fe-00255
- 59423-99-3 Dicarbonyl- π -cyclopentadienyl(diphenylamino)iron, Fe-01613
- 59433-06-6 (Bromomethyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenylphosphine)iron; (+)-*form*, in Fe-01893
- 59447-66-4 [μ -[(1,2,3,4- η :1,4- η)-1,3-Butadiene-1,4-diyl]]hexacarbonyldiiron, Fe-00481
- 59449-63-7 Tetracarbonyl(1,3-dithiane-*S'*)iron, Fe-00310
- 59450-54-3 1,1',3,3'-Tetraethylferrocene, Fe-01587
- 59459-75-5 Dicarbonyl[(η^5 -2,4-cyclopentadien-1-ylidene)(3-oxo-1,3-propanediyl)]iron, Fe-00527
- 59460-91-2 Dicarbonyldiiodobis(trimethylphosphine)iron, Fe-00325
- 59464-66-3 Carbonyl[(1,2,3,4- η)-1,3-cyclohexadiene]-bis(triphenylphosphine)iron, Fe-02165
- 59495-80-6 [3][3](1,3)Ferrocenophane-1,9-dione, Fe-01405
- 59495-81-7 1,1'-Ferrocenedipropionic acid, Fe-01428
- 59520-10-4 Bis[(1,2,3,3a,6a- η)-3a,4,5,6-tetrahydro-6-oxo-3a-pentalenyl]iron, Fe-01404
- 59520-17-1 [4][4](1,3)Ferrocenophane-2,11-dione, Fe-01568
- 59520-19-3 [4][4](1,3)Ferrocenophane-1-one, Fe-01573
- 59520-47-7 1,1',2,2',4,4'-Hexakis(trimethylsilyl)ferrocene, Fe-01979
- 59537-79-0 [(1,2,3,4,5- η)-2,4-Cycloheptadien-1-yl]-[(1,2,3,4,5- η)-2,4,6-cycloheptatrien-1-yl]iron, Fe-01215
- 59568-27-3 1,1',2,2'-Tetramethylferrocene, Fe-01249
- 59568-28-4 1,1',2,2',3,3',4,4'-Octamethylferrocene, Fe-01585
- 59612-86-1 [2-[(Dimethylamino)methyl]ferrocenyl-C,N]copper, Fe-01093
- 59654-49-8 Dicarbonyl(dithiocarboxylato)[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]ferrate(1-); K salt, in Fe-00374
- 59654-58-9 Dicarbonyl[(1,2,3,4,5- η)-1-methyl-2,4-cyclopentadien-1-yl]ferrate(1-); K salt, in Fe-00290
- 59654-59-0 Dicarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]ferrate(1-); K salt, in Fe-00959
- 59654-60-3 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(dithiocarboxylato)ferrate(1-); K salt, in Fe-00265
- 59654-61-4 Dicarbonyl(dithiocarboxylato)[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]ferrate(1-); K salt, in Fe-01086
- 59654-63-6 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-[(methylthio)thioxomethyl]iron, Fe-00386
- 59654-68-1 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(dithiocarboxylato)ferrate(1-); Hg(2+) salt, in Fe-00265
- 59676-12-9 (η^5 -2,4-Cyclopentadien-1-yl)[1,2,3,4,5,6- η]-methyl benzoate]iron(1+) tetrafluoroborate, in Fe-00883
- 59685-04-0 (1-Aminoethyl)ferrocene; (*R*)-*form*, in Fe-00954
- 59687-94-4 (η^4 -1,3-Butadiene)tris(trimethyl phosphite-*P*)iron, Fe-01124
- 59688-05-0 (η^6 -Benzene)[(1,2,3,4,5- η)-1-benzoyl-2,4-cyclopentadien-1-yl]iron(1+); Hexafluorophosphate, in Fe-01555
- 59689-96-2 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(dimethylphosphinothioito-*P*)iron, Fe-00447
- 59689-97-3 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(*O,O*-diethylphosphorothioito-*P*)iron, Fe-00782
- 59689-98-4 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(diphenylphosphinoselenoito-*P*)iron, Fe-01619
- 59691-81-5 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-5-(methoxycarbonyl)-2,4-cyclohexadien-1-yl]iron, Fe-01075
- 59691-82-6 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-5-(hydroxymethyl)-2,4-cyclohexadien-1-yl]iron, Fe-00940
- 59714-67-9 Tricarbonyl[(2,3,4,5- η)-1-methyl-2,3,4,5-tetraphenylsilacyclopenta-2,4-diene]iron; *exo-form*, in Fe-02062
- 59779-74-7 Tricarbonyl[(2,3,4,5- η)-1-methyl-2,3,4,5-tetraphenylsilacyclopenta-2,4-diene]iron; *endo-form*, in Fe-02062
- 59904-75-1 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanediylbis(diphenylphosphine)-*P,P'*]iron(1+); Hexafluorophosphate, in Fe-02069
- 59922-70-2 1-(Methoxymethyl)-1'-nitroferrocene, Fe-00929
- 59949-33-6 Tricarbonyl[(5,6,7,8- η)-5,7,22*E*-ergostatrien-3-one]iron, in Fe-02048
- 59949-34-7 Tricarbonyl[(5,6,7,8- η)-5,7,22-ergostatrien-3-ol]iron; (3 α ,2,2*E*)-*form*, in Fe-02048
- 59949-35-8 (Calciferol)tricarbonyliron; α -*form*, in Fe-02045
- 59949-36-9 (Calciferol)tricarbonyliron; α -*form*, Benzoyl, in Fe-02045
- 59949-39-2 [(2,3,5,6- η)-2,3-Bis(trifluoromethyl)-bicyclo[2.2.1]hepta-2,5-diene]tricarbonyliron, Fe-00814
- 59975-72-3 Tricarbonyl[(5,6,7,8- η)-5,7,22-ergostatrien-3-ol]iron; (3 β ,22*E*)-*form*, Benzoyl, in Fe-02048
- 59981-59-8 (Calciferol)tricarbonyliron; β -*form*, Benzoyl, in Fe-02045
- 60018-41-9 Tricarbonyl[(5,6,7,8- η)-5,7,22-ergostatrien-3-ol]iron; (3 β ,22*E*)-*form*, in Fe-02048
- 60021-73-0 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-phenyl(triphenylarsine)iron, Fe-02001
- 60029-43-8 (Calciferone)tricarbonyliron, in Fe-02045
- 60039-75-0 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-); K salt, in Fe-00194
- 60039-86-3 Tricarbonyl[(*S*,1,2,3- η)-2-propenethial]iron, Fe-00113
- 60084-97-1 Hydroxyferrocene, Fe-00567
- 60084-98-2 [(Tetrahydro-2*H*-pyran-2-yl)oxy]ferrocene, in Fe-00567
- 60084-99-3 2-Hydroxy-1-ferrocenecarboxylic acid, Fe-00715
- 60097-20-3 [(1,5,6,7- η)-Bicyclo[3.2.0]hepta-2,5,7-triene]tricarbonyliron, Fe-00493
- 60105-56-8 Carbonylbis[1,2-ethanediylbis(diphenylphosphine)-*P,P'*]iron, Fe-02192
- 60159-02-6 (Calciferol)tricarbonyliron; β -*form*, in Fe-02045
- 60196-57-8 [(2,3,4,5- η)-Bicyclo[4.2.0]octa-2,4-dien-7-one]tricarbonyliron, Fe-00680
- 60196-58-9 [(*O*,2,3,4- η)-3-Penten-2-one]tricarbonyliron, Fe-00305
- 60268-96-4 Tricarbonyl(5-phenyl-1,3-cyclohexadiene)iron; *exo-form*, in Fe-01312
- 60308-01-2 Di- μ -carbonylhexacarbonyl- μ -hydrodiferrate(1-); Na salt, in Fe-00246
- 60321-21-3 1-Methoxy-2-(methoxycarbonyl)ferrocene, in Fe-00715
- 60342-08-7 Nonacarbonyldi- μ -hydro[μ_3 -[1,1,1-trimethylsilanaminato(2-)]triiron, Fe-00886
- 60349-56-6 Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrocenyl-molybdenum, Fe-01535
- 60349-59-9 Pentacarbonyl(ferrocenylmethyl)manganese, Fe-01381
- 60365-29-9 Hexacarbonyl[μ -(2-propanaminato)][μ -(2-propanoneoximate-*N:O*)]diiron, Fe-00950
- 60430-39-9 Tricarbonyl[(2,3,4,5- η)-thiophene 1-oxide]iron, Fe-00162
- 60440-01-9 Tricarbonyl[(1,3,4,5- η)-7-oxo-4-cycloheptene-1,3-diyl]iron, Fe-00536
- 60478-56-0 Tricarbonyl[(1,2,3,4- η)-5-methyl-1,3-cyclohexadiene]iron, Fe-00576
- 60584-04-5 (2,2'-Bipyridine-*N*)dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Iodide, in Fe-01479
- 60606-70-4 Tricarbonylformyl(triphenyl phosphite-*P*)ferrate(1-); Tetraethylammonium salt, in Fe-01740
- 60635-72-5 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-tetramethylthiophene]iron(1+); Hexafluorophosphate, in Fe-01110
- 60685-69-0 Dicarbonylmethyltris(trimethylphosphine)iron(1+); Tetraphenylborate, in Fe-00982
- 60733-48-4 Carbonylhydroiodotris(trimethylphosphine)iron, Fe-00651
- 60767-44-4 Tricarbonyl[μ -[(1,2,3- η :4,5,6,7- η)-2,4,6-cycloheptatrien-1-yl]](dicarbonylrhodium)iron, Fe-00822
- 60767-45-5 Tricarbonyl[(1,2,3- η)-2,4,6-cycloheptatrien-1-yl]ferrate(1-); Li salt, in Fe-00504

- 60767-46-6 Tricarbonyl[μ -[(1,2,3- η :4,5,6,7- η)-2,4,6-cycloheptatrien-1-yl]](tricarbonyliron)manganese, Fe-01004
- 60791-15-3 [μ -(Carbonothioyl)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -[(methylthio)methylidene]]diiron(1+); Hexafluorophosphate, *in* Fe-01328
- 60816-98-0 1-[1-(Dimethylamino)ethyl]-2-(diphenylphosphino)ferrocene, Fe-01939
- 60816-99-1 1-[1-(Dimethylamino)ethyl]-2-(dimethylphosphino)ferrocene, Fe-01453
- 60829-99-4 [4]Ferrocenophane-1,4-dione, Fe-01180
- 60837-98-1 Dicarbonyl(2-carboxyethenyl)(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00531
- 60840-45-1 Tricarbonyl[(1,2,3,4,5- η)-2-ethyl-1-phenyl-1H-borole]iron, Fe-01321
- 60840-47-3 Tricarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentaphenyl-1H-borole]iron, Fe-02122
- 60876-17-7 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(3-methoxy-3-oxo-1-propenyl)iron, *in* Fe-00531
- 60876-18-8 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(3-ethoxy-3-oxo-1-propenyl)iron, *in* Fe-00531
- 61045-72-5 Dichlorodinitrosylferrate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-02207
- 61091-08-5 1,2-Diferrocenylethylene, Fe-01764
- 61113-53-9 (Carbonothioyl)(η^5 -2,4-cyclopentadien-1-yl)-bis(isocyanobenzene)iron(1+); Hexafluorophosphate, *in* Fe-01656
- 61113-61-9 (Carbonothioyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-01878
- 61113-63-1 (Carbonothioyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenylstibine)iron(1+); Hexafluorophosphate, *in* Fe-01879
- 61113-65-3 (Carbonothioyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenylarsine)iron(1+); Hexafluorophosphate, *in* Fe-01865
- 61113-71-1 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(isocyanomethane)(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-01928
- 61113-76-6 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(thiocyanato-*N*)(triphenylphosphine)iron, Fe-01870
- 61116-64-1 1-[(Dimethylamino)methyl]-2-(diphenylphosphino)ferrocene; (1*R*)-form, *in* Fe-01910
- 61127-37-5 Tricarbonylchloro[(1,2,3- η)-2,4,7-cyclooctatrien-1-yl]iron, Fe-00688
- 61139-16-0 Tetracarbonylgermylhydroiron, Fe-00045
- 61176-75-8 Tricarbonylchloro[(1,2,3- η)-1-phenyl-2-propenyl]iron, Fe-00841
- 61182-23-8 Tricarbonyl[(2,3,4,5- η)-2,4,6-cyclooctatrien-1-one]iron, Fe-00683
- 61216-80-6 Bromotricarbonyl[(1,2,3- η)-2-methyl-2-propenyl]iron, Fe-00209
- 61216-81-7 Tricarbonylchloro[(1,2,3- η)-2-methyl-2-propenyl]iron, Fe-00212
- 61216-84-0 Bromo(η^3 -2-bromo-2-propenyl)tricarbonyliron, Fe-00111
- 61216-85-1 Bromotricarbonyl(η^3 -2-propenyl)iron, Fe-00117
- 61216-86-2 Bromo[(1,2,3- η)-2-butenyl]tricarbonyliron, Fe-00208
- 61216-88-4 Bromotricarbonyl[(1,2,3- η)-1-phenyl-2-propenyl]iron, Fe-00838
- 61332-68-1 1,1'-(5',6'-Diphenyl[1,1':2',1''-terphenyl]-3',4'-diyl)ferrocene, Fe-02150
- 61351-15-3 (η^4 -1-Acetyl-2-methylene-1,3-propanediyl)tricarbonyliron, Fe-00395
- 61403-41-6 ▸ Tricarbonyl[nonahydropentaborate(2-)]iron, Fe-00026
- 61459-54-9 Tetracarbonyl[*N*-(3-phenyl-2-propenylidene)-benzenamine]iron, Fe-01599
- 61491-75-6 Tricarbonyl[(1,2,5- η)-octahydropentaborato(3-)-*H*²]ferrate(1-); Tetrabutylammonium salt, *in* Fe-00025
- 61525-93-7 Tricarbonyl[(2,3,4,5- η)-dicarbonyltrihiydropentaborato(2-)]iron, Fe-00071
- 61649-81-8 Dimethylborylferrocene; Py complex, *in* Fe-00952
- 61754-41-4 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trimethylplumbyl)iron, Fe-00633
- 61761-42-0 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-[methylenebis(diphenylphosphine)]-*P,P'*iron(1+); Hexafluorophosphate, *in* Fe-02035
- 61812-28-0 Tricarbonyl(1,3,5-cycloheptatriene-1-carboxylic acid)iron; Me ester, *in* Fe-00684
- 61812-29-1 Tricarbonyl[(1,2,3,8- η)-1-methoxy-1,3,5,7-cyclooctatetraene]iron, Fe-00865
- 61816-94-2 Di- μ -carbonylhexacarbonyl(dicarbonyliron)di- μ -hydro(tricarbonylruthenium)diosmium, Fe-00995
- 61827-25-6 (η^5 -2,4-Cyclopentadien-1-yl)(η^6 -nitrobenzene)iron(1+), Fe-00706
- 61863-63-6 Dicarbonyl[(1,2,3,4- η)-1,3,5,7-cyclooctatetraene](triphenylphosphine)iron, Fe-01964
- 61863-84-1 Di- μ -carbonyltricarbonyl(dicarbonyliron)-(hexacarbonyl- μ -hydrodiruthenium)- μ -hydroosmium, Fe-00994
- 61917-02-0 Octacarbonyl[μ_3 -[(η^2 : η^2 : η^4)-5-ethylidene-1,3-dimethyl-1,3-pentadiene-1,5-diyl]]triiron, Fe-01477
- 61927-75-1 [(1,7,8,9- η)-Bicyclo[5.2.0]nona-2,5,7,9-tetraen-4-one]tricarbonyliron, Fe-00815
- 62047-18-1 Tetrakis(η^5 -2,4-cyclopentadien-1-yl)tetra- μ_3 -thioxotetrairon(1+); Bromide, *in* Fe-01682
- 62048-77-5 Dicarbonyldiiodobis(trimethylphosphine)iron(1+); *mer-cis*-form, Triiodide, *in* Fe-00792
- 62075-70-1 Dibromodicarbonylbis(trimethylphosphine)iron; *ab*-dibromo-*df*-dicarbonyl-*ce*-diphosphine-form, *in* Fe-00323
- 62075-71-2 Dicarbonyldiiodobis(trimethylphosphine)iron; *ab*-dicarbonyl-*df*-diiodo-*ce*-diphosphine-form, *in* Fe-00325
- 62075-75-6 Dibromodicarbonylbis(trimethylphosphine)iron; *af*-dibromo-*bc*-dicarbonyl-*cd*-diphosphine-form, *in* Fe-00323
- 62075-76-7 Dicarbonyldichlorobis(trimethylphosphine)iron; *ab*-dicarbonyl-*ce*-dichloro-*df*-diphosphine-form, *in* Fe-00324
- 62075-77-8 Dicarbonyldichlorobis(trimethylphosphine)iron; *ab*-dicarbonyl-*df*-dichloro-*ce*-diphosphine-form, *in* Fe-00324
- 62075-78-9 Tricarbonyldiiodo(trimethylphosphine)iron; *abf*-tricarbonyl-*ce*-diiodo-*d*-phosphine-form, *in* Fe-00136
- 62107-13-5 Tricarbonyldiiodo(trimethylphosphine)iron; *abf*-tricarbonyl-*cd*-diiodo-*e*-phosphine-form, *in* Fe-00136
- 62152-73-2 Bis[(1,2,3,4,5- η)-1-acetyl-2,4-cyclopentadien-1-yl]di- μ -carbonyldicarbonyldiiron, Fe-01546
- 62341-63-3 Tricarbonyl[(1,2,3,4- η)-1-methoxy-1,3-butadiene]iron, *in* Fe-00203
- 62341-64-4 Tricarbonyl[(1,2,3,4- η)-2-methoxy-1,3-butadiene]iron, *in* Fe-00204
- 62343-22-0 (η^5 -2,4-Cyclopentadien-1-yl)(1,2,3,4,4a,9a- η)-9*H*-fluoren-9-yl]iron, Fe-01533
- 62369-57-7 Ferrocenium; Tetrachlorobismuthate, *in* Fe-00564
- 62402-98-6 Tricarbonyl[(4,5,6,7- η)-3a,7a-dihydro-1*H*-inden-1-one]iron, Fe-00833
- 62402-99-7 Tricarbonyl[(5,6,7,7a- η)-4*H*-indene]iron, Fe-00830
- 62422-40-6 [[(η^4 -1,3-Butadienyl)oxy]trimethylsilane]tricarbonyliron, *in* Fe-00203
- 62444-94-4 Tricarbonyl[(3,4,5,6- η)-6-phenyl-3,5-hexadien-2-one]iron; *syn,syn*-form, *in* Fe-01313
- 62476-99-7 μ_3 -Carbonyldodecacarbonylhydrotetraferrate(1-); Benzyltrimethylammonium salt, *in* Fe-00993
- 62479-25-8 Tricarbonyl[(2,3,4,5,6- η)-1,1-dimethyl-4-phenyl-1-sila-4-boracyclohexa-2,5-diene]iron, Fe-01338
- 62479-26-9 Tricarbonyl[(1,2,3,6,7- η)-4,5-dihydro-1-phenyl-1*H*-borepin]iron, Fe-01320
- 62524-37-2 Tricarbonyl[(2,3,4,5- η)-3,4-dimethylthiophene 1,1-dioxide]iron, Fe-00411
- 62580-70-5 (η^5 -2,4-Cyclopentadien-1-yl)[η^6 -decahydrocarbadeborato(2-)]ferrate(1-); Tetramethylammonium salt, *in* Fe-00141
- 62841-59-2 Tricarbonyl[(2,3,4,5- η)-1-methyl-2,3,4,5-tetraphenylsilacyclopenta-2,4-diene]iron, Fe-02062

- 62922-31-0 1,2-Divinylferrocene, Fe-01196
 62928-00-1 [(1,7,8,9- η)-Bicyclo[5.2.0]nona-2,5,7,9-tetraene]tricarbonyliron, Fe-00829
 62928-01-2 [(1,7,8,9- η)-Bicyclo[5.2.0]nona-2,4,7,9-tetraene]tricarbonyliron, Fe-00828
 62929-40-2 Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadien-1-ol]iron; *exo-form*, in Fe-00399
 62945-30-6 Tricarbonyl[(2,3,4,5- η)-1-methyl-2,3,4,5-tetraphenyl-1*H*-germole]iron, Fe-02061
 62963-88-6 Triferrocenylcyclopropenyl(1+); Tetrafluoroborate, in Fe-02079
 62965-89-3 1,2,3-Triferrocenylcyclopropene, Fe-02080
 62980-53-4 Tricarbonyl[(2,3,5,6- η)-1,4-dihydro-4,4-dimethyl-1-phenylborin]iron, Fe-01413
 62981-58-2 [(1,5,6,7- η)-Bicyclo[3.2.0]hepta-5,7-diene]tricarbonyliron, Fe-00525
 63000-19-1 Bis[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl][μ -[(1,2,3,4,5- η :1',2',3',4',5'- η)[bi-2,4-cyclohexadien-1-yl]-6,6'-diyl]]diiron, Fe-02073
 63044-94-0 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(phenylcarbonimidoyl)]diiron, Fe-01921
 63081-09-4 [(2,3,4,6,7- η)-8-Acetylbicyclo[3.2.1]octa-3,6-dien-2-yl]tricarbonyliron(1+); Hexafluorophosphate, in Fe-01042
 63105-24-8 Bis[μ -(dimethylphosphino)]tetranitrosyldiiron, Fe-00059
 63106-71-8 Tricarbonyl[(2,3,4,5- η)-1,1-dimethyl-2,3,4,5-tetraphenyl-1*H*-germole]iron, Fe-02077
 63118-81-0 (Thiocarboxy)ferrocene, Fe-00710
 63179-44-2 (Thiocarboxy)ferrocene; Piperidinium salt, in Fe-00710
 63210-25-3 1-Acetyl-1'-phenylferrocene, Fe-01559
 63287-55-8 (η^5 -2,4-Cyclopentadien-1-yl)(η^5 -1*H*-phosphol-1-yl)iron, Fe-00424
 63287-56-9 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-1-yl]iron, Fe-00774
 63312-73-2 [(1,2,3,4,5- η)-2-Acetyl-3,4-dimethyl-1*H*-phosphol-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01084
 63313-71-3 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(tetrahydrofuran)iron(1+); Tetrafluoroborate, in Fe-00770
 63339-02-6 Tricarbonyl[(1,2,3,4,5- η)-3,4-diethyl-2,5-dihydro-1,2,5-thiadiborole]iron, Fe-00449
 63453-55-4 Dicarboxyl[(1,2,3,4,5,6- η)-hexamethylbenzene]iron, Fe-01255
 63453-56-5 [(1,2,3,4- η)-1,3-Cyclohexadiene][(1,2,3,4,5,6- η)-hexamethylbenzene]iron, Fe-01581
 63495-08-9 Decakis(chloromercurio)ferrocene, Fe-00472
 63495-09-0 Decaiodoferrocene, Fe-00477
 63510-06-5 1-Ferrocenyl-2-propyn-1-one, Fe-01015
 63625-70-7 Dicarboxyl[(*O*,1,2,3- η)-3-phenyl-2-propenal]-(triphenylphosphine)iron, Fe-01986
 63704-10-9 Heptanitrosyltri- μ_3 -thioxotetraferate(1-); Tetraphenylarsonium salt, in Fe-02222
 63814-56-2 Tetracarboxylhydroferrate(1-); Tetramethylammonium salt, in Fe-00042
 63817-17-4 Tricarbonyl[(3,4,5,6- η)-3,5-hexadien-1-ol]iron; *syn-form*, in Fe-00439
 63817-21-0 Tricarbonyl[(1,2,3,4- η)-7-phenyl-1,3,5-cycloheptatriene]iron, Fe-01387
 63835-22-3 Tetrakis(trimethylphosphine)iron, Fe-00983
 63835-33-6 Tris(trimethylphosphine)bis(trimethylphosphite-*P*)iron, Fe-01365
 64041-01-6 Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)-[dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-iron]tungsten, Fe-01299
 64103-53-3 Tricarbonyl[η^5 -heptahydro-*C,C'*-dimethyldicarbanonorato(2-)]iron, Fe-00231
 64115-36-2 (Trimethylstannyl)ferrocene, Fe-01118
 64121-42-2 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-carboxylic acid]iron; Chloride, in Fe-00252
 64121-43-3 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-carboxylic acid]iron; Amide, in Fe-00252
 64121-44-4 Tricarbonyl[(1,2,3,4- η)-1,3-cyclobutadiene-1-carbonitrile]iron, Fe-00249
 64121-45-5 Tricarbonyl(isopropylcyclobutadiene)iron, Fe-00575
 64121-49-9 Tricarbonyl[(1,2,3,4- η)-1-(chloromethyl)-1,3-cyclobutadiene]iron, Fe-00256
 64121-50-2 Tricarbonyl(η^4 -1-iodo-1,3-cyclobutadiene)iron, Fe-00152
 64121-51-3 Tricarbonyl[(1,2,3,4- η)-1-methoxy-1,3-cyclobutadiene]iron, Fe-00272
 64121-52-4 Tricarbonyl[η^4 -(chloromercuri-1,3-cyclobutadiene)]iron, Fe-00150
 64397-41-7 Tricarbonyl[(2,3,4,5- η)-2,4-hexadienedioic acid]iron; *syn,syn-form*, Di-Et ester, in Fe-00361
 64424-45-9 (Bromomagnesium)(η^5 -2,4-cyclopentadien-1-yl)-[1,2-ethanediybis(diphenylphosphine)-*P,P'*]iron, Fe-02039
 64424-58-4 [(*C,S*- η)-Carbon disulfide]-dicarbonylbis(trimethylphosphine)iron, Fe-00464
 64424-68-6 (Carbon disulfide)-dicarbonylbis(triphenylphosphine)iron, Fe-02144
 64440-38-6 Tetracarboxylethylferrate(1-); Na salt, in Fe-00125
 64494-45-7 Benzylidenedicarbonyl(η^5 -cyclopentadienyl)iron(1+); Hexafluorophosphate, in Fe-01172
 64494-47-9 Benzylidenedicarbonyl(η^5 -cyclopentadienyl)-(triphenylphosphine)iron(1+); Hexafluorophosphate, in Fe-02032
 64514-80-3 Carbonyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]-iodo(triphenylphosphine)iron, Fe-01932
 64514-85-8 Carbonyl[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]-iodo(triphenyl phosphite-*P*)iron, Fe-01899
 64535-96-2 Hexacarboxyl[μ -[(1,2,5- η :1,4,5- η)-1,2,4,5-tetramethyl-3-oxo-1,4-pentadiene-1,5-diyl]]-diiron, Fe-01318
 64537-48-0 (η^5 -2,4-Cyclopentadien-1-yl)-iodonitrosyl(triphenylphosphine)iron, Fe-01795
 64539-05-5 Decaethylferrocene, Fe-02023
 64654-73-5 Bis[(3*a*,4,5,6,6*a*- η)-5-methyl-3*aH*-cyclopenta[*b*]-thien-3*a*-yl]iron, Fe-01407
 64753-01-1 Nonacarbonyl[μ_3 -[ethanaminato(2-)]di- μ -hydrotriiron, Fe-00670
 64782-85-0 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)di- μ -nitrosyldiiron, in Fe-00121
 64815-18-5 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-3,4-dimethyl-2-phenyl-1*H*-phosphol-1-yl]iron, Fe-01498
 64815-19-6 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-2-phenyl-1*H*-phosphol-1-yl]iron, Fe-01325
 64815-20-9 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-3-phenyl-1*H*-phosphol-1-yl]iron, Fe-01326
 64815-26-5 [(1,2,3,4,5- η)-2-Acetyl-1*H*-phosphol-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00742
 64815-27-6 [(1,2,3,4,5- η)-3-Acetyl-1*H*-phosphol-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-00743
 64867-22-7 [(1,2,3,4,5- η)-2-Acetyl-3,4-dimethyl-5-phenyl-1*H*-phosphol-1-yl](η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01629
 64883-59-6 Tetracarboxylmethylferrate(1-); Na salt, in Fe-00073
 64913-26-4 [2-[1-(Dimethylamino)ethyl]ferrocenyl-*C,N*](2,4-pentanedionato-*O,O'*)palladium, Fe-01637
 64913-43-5 (η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediybis(diphenylphosphine)-*P,P'*](methoxymethyl)iron, Fe-02085
 64913-45-7 (Acetonitrile)(η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanediybis(diphenylphosphine)-*P,P'*]iron(1+); Tetraphenylborate, in Fe-02084
 65015-71-6 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(methylselenonyl)iron, Fe-00311
 65045-67-2 Hexacarboxyl[μ -[η^2 -*N,N'*-1,2-ethanediyldienebis[2-methyl-2-propanamine]-*N,N'*]]diiron, Fe-01437
 65107-19-9 [(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene][1-[1-(dimethylamino)ethyl]-2-diphenylphosphino]ferrocene-*N,P*]rhodium(1+); (1*S*,1'*R*)-*form*, Hexafluorophosphate, in Fe-02086
 65188-99-0 (η^5 -2,4-Cyclopentadien-1-yl)(η^5 -decahydropentaborato(1-))iron, Fe-00088
 65209-14-5 Octacarboxylbis(trimethylstannyl)diiron, Fe-01259

- 65230-41-3 Bromotetracarbonyl(ferroceniumylmethylidyne)tungsten; *trans-form*, in Fe-01294
- 65230-44-6 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(ferrocenylmethylidyne)tungsten, Fe-01539
- 65274-19-3 Bis(η^5 -2,4-cyclopentadien-1-yl)diferrocenyltitanium, Fe-02013
- 65286-18-2 [2-[(Dimethylamino)methyl]ferrocenyl-*C,N*]silver, Fe-01089
- 65296-91-5 (η^6 -Benzene)[(1,2,3,4,5- η)-2,4-cyclohexadien-1-yl]iron(1+); Hexafluorophosphate, in Fe-00922
- 65337-60-2 Tricarbonyl(1-acetyl-2,4-cyclohexadiene)iron; *endo-form*, in Fe-00718
- 65391-21-1 Tricarbonyl(1-acetyl-2,4-cyclohexadiene)iron; *exo-form*, in Fe-00718
- 65465-11-4 Dicarboxylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -[(dimethylarsino)]diiron, Fe-01443
- 65465-56-7 Bis[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]ferrate(1-), Fe-00060
- 65556-43-6 Dicarboxyl[(3,4,5,6- η)-3,5-hexadien-2-one]-(triphenylphosphine)iron; *syn-form*, in Fe-01930
- 65556-44-7 Dicarboxyl[(3,4,5,6- η)-3,5-hexadien-2-one]-(triphenylphosphine)iron; *anti-form*, in Fe-01930
- 65584-69-2 [η^1 -1-(3-Phenylpropyl)-2,4-cyclopentadien-1-yl]iron(1+); Hexafluorophosphate, in Fe-01212
- 65724-47-2 μ -Carboxylhexacarbonyl(μ -carbonylpentacarbonyl)diiron(μ -hydrodiruthenium, Fe-00999
- 65774-56-3 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-1-phenylboratabenzene]iron, Fe-01412
- 65777-53-9 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-1-methylboratabenzene]iron, Fe-00766
- 65816-86-6 Ferrocenesulfonic acid, Fe-00570
- 66039-65-4 Di- μ_3 -carbonylnonacarbonyltriferrate(2-); Bis[bis-(triphenylphosphine)iminium] salt, in Fe-00652
- 66060-15-9 [(1,2,3- η)-2-Cycloocten-1-yl]tris(trimethyl phosphite-*P*)iron(1+), Fe-01511
- 66083-73-6 (1,1'-Dichlorosilylene)ferrocene, Fe-00514
- 66214-95-7 Tricarbonyl(η^4 -1,3-cyclobutadiene-1-thiol)iron, Fe-00161
- 66214-96-8 Tricarbonyl[(1,2,3,4- η)-1-(methylthio)-1,3-cyclobutadiene]iron, in Fe-00161
- 66214-98-0 [μ -[Bis(η^4 -1,3-cyclobutadien-1-yl)disulfide]]hexacarbonyliron, Fe-01142
- 66415-98-3 Pentakis(2-isocyano-2-methylpropane)iron, Fe-01914
- 66415-99-4 Tetrakis(2-isocyano-2-methylpropane)-(triphenylphosphine)iron, Fe-02142
- 66451-24-9 Tricarbonyl[1-(phenylsulfanyl)-2,3-dimethyl-1,3-butadiene]iron, Fe-01334
- 66451-27-2 Tricarbonyl[1-(phenylsulfonyl)-2,3-dimethyl-1,3-butadiene]iron, Fe-01335
- 66517-47-3 (Carbonothioyl)tetracarbonyliron, Fe-00067
- 66526-54-3 Tricarbonyl[(1,2,3- η)-2,4,6-cycloheptatrien-1-yl]ferrate(1-); Tetraphenylarsonium salt, in Fe-00504
- 66593-35-9 Tricarbonyl[(1,2,3,6- η)-1,2,3,4-tetramethyl-5,6-bis(trifluoromethyl)benzene]iron, Fe-01303
- 66615-42-7 Tricarbonyl(2-acetyl-1,3,5-cycloheptatriene)iron, Fe-00863
- 66615-43-8 [(1,2,3,4,5- η)-2-Acetyl-2,4-cycloheptadien-1-yl]tricarbonyliron(1+); Hexafluorophosphate, in Fe-00884
- 66740-97-4 Tricarbonyl[carbonyl(methylimino)[(1,2,3- η)-1,3-diphenyl-2-propene-3,1-diyl]]iron, Fe-01654
- 66921-70-8 Hexacarbonylbis[μ -[(1,2,3,4,5- η)-1,2,3,4,5- η)-3,4-diethyl-2,5-dihydro-2,5-dimethyl-1,2,5-thiadiborole]](iron)dimanganese, Fe-01776
- 66921-71-9 Tricarbonyl[(η^5 -2,4-cyclopentadien-1-yl)iron]-[μ -[(1,2,3,4,5- η)-1,2,3,4,5- η)-3,4-diethyl-2,5-dihydro-2,5-dimethyl-1,2,5-thiadiborole]]manganese, Fe-01438
- 66985-36-2 Carbonyl(1,3-dimethyl-2-imidazolidinylidene)dinitrosyliron, Fe-00138
- 66985-37-3 Bis(1,3-dimethyl-2-imidazolidinylidene)dinitrosyliron, Fe-00647
- 67069-07-2 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,3a,7a- η)-4,5,6,7-tetrahydro-4-hydroxy-1*H*-inden-1-yl]iron; ($\pm$)-*exo-form*, in Fe-01225
- 67078-00-6 1-Hydroxy-2-(methoxycarbonyl)ferrocene, in Fe-00715
- 67078-08-4 Tricarbonyl[(4,5,6,7- η)-4,6-heptadien-3-ol]iron, Fe-00625
- 67088-06-6 Tricarbonyl[(3,4,5,6- η)-2,2-dimethyl-1-oxa-2-silacyclohexa-3,5-diene]iron, Fe-00440
- 67113-80-8 [μ -(Carbonothioyl)]- μ -carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron; *trans-form*, in Fe-01163
- 67126-22-1 1,3-Benzodioxol-2-ylidenetetracarbonyliron, Fe-00655
- 67180-14-7 Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadiene-1-carbonitrile]iron; *exo-form*, in Fe-00502
- 67225-86-9 Bis[μ -(carbonothioyl)]dicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01162
- 67369-66-8 Tricarbonyl[(1,2,3,4- η)-7-(diphenylmethylene)-1,3,5-cycloheptatriene]iron, Fe-01786
- 67378-10-3 μ -Carboxylbicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -ethylidenediiron(1+); Tetrafluoroborate, in Fe-01330
- 67379-58-2 Tricarbonyl[(1,3,4,5- η)-2-oxo-4-cycloheptene-1,3-diyl]iron, Fe-00537
- 67420-78-4 [(1,2,3,4- η)-1,3,5-Cycloheptatriene]-[(1,2,3,4,5,6- η)-hexamethylbenzene]iron, Fe-01638
- 67420-79-5 [(1,2,5,6- η)-1,5-Cyclooctadiene][(1,2,3,4,5,6- η)-hexamethylbenzene]iron, Fe-01692
- 67462-91-3 3-Ferrocenyl-2-propenoic acid; (*E*)-*form*, in Fe-01055
- 67574-52-1 Bis[(η^6 -phenyl)ferrocene]chromium, Fe-02066
- 67606-62-6 [(1,7,8,9- η)-Bicyclo[5.2.0]nona-3,5,7,9-tetraen-2-one]tricarbonyliron, Fe-00816
- 67612-84-4 Tricarbonyl(1-benzoyl-1,3-cyclobutadiene)iron, Fe-01144
- 67663-78-9 Dicarboxyl[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl](triphenylphosphine)iron(1+); Tetrafluoroborate, in Fe-01951
- 67734-80-9 [(1,2,2a,12a,12b,12c- η)-Coronene](η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, in Fe-01984
- 67758-07-0 Dicarboxyl-1,3,5-cycloheptatrien-1-yl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01178
- 67887-86-9 Bis[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-1-yl]iron, Fe-00968
- 67887-87-0 Bis[(1,2,3,4,5- η)-2,5-diphenyl-1*H*-phosphol-1-yl]iron, Fe-02063
- 68004-81-9 [(Diethoxyphosphinyl)methyl]ferrocene, Fe-01357
- 68110-92-9 μ -Carboxylhexacarbonylbis[μ -(dimethylgermylene)]-diiron, Fe-00762
- 68148-17-4 Tricarbonyl[(1,2,3,4- η)-2,3,4-triphenyl-1,3-butadien-1-one]iron, Fe-01863
- 68148-22-1 Bromo(η^5 -1-bromo-2,4-cyclopentadien-1-yl)dicarbonyliron, Fe-00155
- 68148-23-2 Dicarboxyliodo(η^5 -1-iodo-2,4-cyclopentadien-1-yl)iron, Fe-00159
- 68148-25-4 Dicarboxyl(η^5 -1-iodo-2,4-cyclopentadien-1-yl)methyliron, Fe-00286
- 68182-16-1 Tricarbonyl[(1,2,3,4- η)-4-methyl-1,3-pentadien-1-one]iron, Fe-00405
- 68193-51-1 [(1,2,3,4- η)-1,3,5,7-Cyclooctatetraene]-tris(trimethyl phosphite-*P*)iron, Fe-01507
- 68193-58-8 Tricarbonyl[(1,2,3,4- η)-5-fluoro-1,3-cyclohexadiene]iron, Fe-00366
- 68193-59-9 Tricarbonyl[(1,2,3,4- η)-5-chloro-1,3-cyclohexadiene]iron, Fe-00365
- 68200-85-1 μ -Chloro- μ -ferrocenylidenetetramethyldialuminum, Fe-01275
- 68220-61-1 Di- μ -carbonyldicarbonylbis(η^5 -1-iodo-2,4-cyclopentadien-1-yl)diiron, Fe-01145
- 68344-23-0 Bis(η^6 -boratabenzene)iron, Fe-00613
- 68368-93-4 Tri- μ -carbonyloctacarbonylbis[μ_4 -[(1- η)-1,2- η)-1,2- η)-1-methyl-1,2- η ethenediyl]]tetrairon, Fe-01470

- 68499-72-9 (η^6 -Benzene)[(1,2,3,4,5- η)-1-ferrocenyl-2,4-cyclopentadien-1-yl]iron(1+); Hexafluorophosphate, *in* Fe-01720
- 68520-37-6 Tetracarbonyl(di- μ -carbonylhexacarbonyldiferrate)manganate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00797
- 68581-58-8 μ -Hexacarbonyl[μ -[2-methyl-2-(η^2 : η^2 -thionitroso)]propane]]diiron, Fe-00562
- 68643-75-4 Dihydrotetrakis(trimethyl phosphite-*P*)iron, Fe-00984
- 68643-76-5 [1,1'-(η^2 -1,2-Ethyndiyl)bis(benzene)]-tris(trimethyl phosphite-*P*)iron, Fe-01810
- 68643-83-4 (η^6 -Benzene)bis(trimethyl phosphite-*P*)iron, Fe-00979
- 68830-04-6 Bromotetracarbonyl(ferroceniumylmethylidyne)tungsten, Fe-01294
- 68830-11-5 Pentacarbonyl(ethoxyferrocenylmethylene)molybdenum, Fe-01536
- 68830-12-6 Bromotetracarbonyl(ferrocenylmethylidyne)molybdenum; *trans*-form, *in* Fe-01293
- 68830-17-1 Bromotetracarbonyl(ferrocenylmethylidyne)chromium; *trans*-form, *in* Fe-01292
- 68866-78-4 (η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanedylbis(diphenylphosphine)-*P,P'*](2-methyl-1-propenylidene)iron(1+), Fe-02104
- 68866-79-5 (η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanedylbis(diphenylphosphine)-*P,P'*](2-methyl-1-propenylidene)iron(1+); Fluorosulfate, *in* Fe-02104
- 68866-83-1 (η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanedylbis(diphenylphosphine)-*P,P'*]ethenylideneiron(1+); Hexafluorophosphate, *in* Fe-02083
- 68866-84-2 (η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanedylbis(diphenylphosphine)-*P,P'*]-1-propynyliron, Fe-02095
- 68868-34-8 (Carbonylthioyl)carbonyl(η^5 -2,4-cyclopentadien-1-yl)ferrate(1-); Na salt, *in* Fe-00193
- 68974-54-9 [(3,4,5,6- η)-Bicyclo[5.1.0]octa-3,5-dien-2-one]tricarbonyliron; *exo*-form, *in* Fe-00681
- 68974-55-0 [(3,4,5,6- η)-Bicyclo[5.1.0]octa-3,5-dien-2-one]tricarbonyliron; *endo*-form, *in* Fe-00681
- 69004-76-8 Tricarbonyl[(2,3,4,5- η)-1,1-diphenylsilacyclohexa-2,4-diene]iron, Fe-01661
- 69005-60-3 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,4a,10a- η)-phenanthrene]iron(1+); Hexafluorophosphate, *in* Fe-01609
- 69039-47-0 [(1,2,3- η)-2-Cycloocten-1-yl]tris(trimethyl phosphite-*P*)iron(1+); Tetrafluoroborate, *in* Fe-01511
- 69041-49-2 Tricarbonyl[(1,2,3,4- η)-1,3,5-cyclononatriene]iron, Fe-00905
- 69041-50-5 Tricarbonyl[(4,5,6,7- η)-2,3,3a,7a-tetrahydro-1*H*-indene]iron, Fe-00909
- 69203-42-5 Di- μ -carbonylnonacarbonyl(triphenylstibine)triiron, Fe-01982
- 69258-32-8 Tricarbonyl(tachysterol₂)iron; α -form, 3,5-Dinitrobenzoyl, *in* Fe-02047
- 69258-33-9 Tricarbonyl(tachysterol₂)iron; α -form, Benzoyl, *in* Fe-02047
- 69308-24-3 Tricarbonyl(tachysterol₂)iron; β -form, 3,5-Dinitrobenzoyl, *in* Fe-02047
- 69308-25-4 Tricarbonyl(precalciferol₂)iron; α -form, 3,5-Dinitrobenzoyl, *in* Fe-02046
- 69308-26-5 Tricarbonyl(precalciferol₂)iron; β -form, 3,5-Dinitrobenzoyl, *in* Fe-02046
- 69308-27-6 Tricarbonyl(tachysterol₂)iron; β -form, Benzoyl, *in* Fe-02047
- 69308-29-8 Tricarbonyl(tachysterol₂)iron; α -form, *in* Fe-02047
- 69350-85-2 Tricarbonyl(tachysterol₂)iron; β -form, *in* Fe-02047
- 69393-63-1 [(1,2,5,6- η)-1,5-Cyclooctadiene](η^5 -2,4-cyclopentadien-1-yl)ferrate(1-); Li salt, tetramethylethylenediamine complex, *in* Fe-01107
- 69440-00-2 Nonacarbonyl- μ_3 -ethylidynetri- μ -hydrotriiron, Fe-00666
- 69470-68-4 Tetrakis(η^2 -ethene)ferrate(2-); Di-Li salt, bis(tetramethylethylenediamine) complex, *in* Fe-00322
- 69480-73-5 Hexacarbonyldi- μ -thioxodiferrate(2-), Fe-00098
- 69493-77-2 Tricarbonyl(hexacarbonyldicobalt)hydro[μ_3 -(phenylmethylidyne)]iron, Fe-01373
- 69496-16-8 Pentakis(isocyanoethane)iron, Fe-01359
- 69532-11-2 [Bis(methylthio)methylene]dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-00607
- 69593-52-8 Tricarbonyl[(3,4,5,6- η)-1,1,2,2-tetramethyl-3,6-diphenyl-1,2-disilacyclohexa-3,5-diene]iron, Fe-01806
- 69621-12-1 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methoxymethylene)iron(1+); Hexafluorophosphate, *in* Fe-00421
- 69621-16-5 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methoxymethylene)(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-01935
- 69661-83-2 1,1'-Oxybis[methylene]bisferrocene, Fe-01772
- 69721-22-8 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(1-methylethylidene)iron(1+), Fe-00605
- 70114-44-2 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-2,5-dimethyl-1*H*-arsol-1-yl]iron, Fe-00765
- 70114-45-3 Bis[(1,2,3,4,5- η)-2,5-dimethyl-1*H*-arsol-1-yl]iron, Fe-00964
- 70116-06-2 2-Amino-3-ferrocenylpropanoic acid; ($\pm$)-form, *in* Fe-01082
- 70124-21-9 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-6-thioxo-2,4-cyclohexadien-1-yl]iron, Fe-00725
- 70124-23-1 (η^5 -2,4-Cyclopentadien-1-yl)(*N,N*-dimethylaniline)iron(1+); Hexafluorophosphate, *in* Fe-01099
- 70124-43-5 (η^5 -2,4-Cyclopentadien-1-yl)(η^6 -phenol)iron(1+); Hexafluorophosphate, *in* Fe-00741
- 70124-45-7 (η^6 -Benzenethiol)(η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-00747
- 70124-46-8 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-6-imino-2,4-cyclohexadien-1-yl]iron, Fe-00735
- 70124-47-9 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-6-oxo-2,4-cyclohexadien-1-yl]iron, Fe-00707
- 70130-53-9 Tricarbonyl[(1,2,3,3a,7a- η)-1*H*-inden-1-yl]iron(1+); Hexafluorophosphate, *in* Fe-00821
- 70196-11-1 Carbonylcarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)ferrate(1-), Fe-01889
- 70196-12-2 Carbonylcarboxyl(η^5 -2,4-cyclopentadien-1-yl)-(triphenylphosphine)ferrate(1-); K salt, *in* Fe-01889
- 70196-14-4 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methoxycarbonyl)(triphenylphosphine)iron, *in* Fe-01889
- 70196-16-6 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanedylbis(diphenylphosphine)-*P,P'*]iron(1+); Hydroxide, *in* Fe-02069
- 70196-17-7 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)[1,2-ethanedylbis(diphenylphosphine)-*P,P'*]iron(1+); Tetrahydroborate, *in* Fe-02069
- 70215-62-2 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,5-dimethyl-1*H*-arsol-1-yl)iron, Fe-01059
- 70272-52-5 Tricarbonyl[(4,5,6,7- η)-1*H*-1,2-diazepine]iron; 1-Phenylsulfonyl, *in* Fe-00267
- 70318-04-6 Methylpentakis(trimethyl phosphite-*P*)iron(1+); Tetraphenylborate, *in* Fe-01467
- 70414-92-5 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-1,2,3,4,5,6-hexamethylbenzene]iron, Fe-01502
- 70414-93-6 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-6-methylene-2,4-cyclohexadien-1-yl]iron, Fe-01500
- 70414-95-8 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5,6- η)-hexamethylbenzene]iron(1+); Tetrafluoroborate, *in* Fe-01503
- 70459-84-6 (Acetonitrile)(η^5 -2,4-Cyclopentadien-1-yl)[1,2-ethanedylbis(diphenylphosphine)-*P,P'*]iron(1+); Bromide, *in* Fe-02084
- 70568-78-4 1,1'-Dithiobisferrocene, Fe-01670
- 70595-34-5 1,1'-Bis(trimethylstannyl)ferrocene, Fe-01460
- 70616-54-5 (1-Thioxoethyl)ferrocene, Fe-00911
- 70616-55-6 (Phenylthioxomethyl)ferrocene, Fe-01486
- 70629-73-1 Hexacarbonyl[μ -[(1,2,3,4- η :6,7,8,9- η)-heptalene]]diiron, Fe-01520
- 70910-76-8 Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(trifluoroacetyl)iron, Fe-00346
- 71004-19-8 Dicarbonyl[(methylthio)thioxomethyl]-bis(triphenylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-02156

71004-27-8	Carbonyliodo[(methylthio)thioxomethyl]-bis(trimethylphosphine)iron, Fe-00468	71713-53-6	[(1,2,3,4,5,6- η)-Hexamethylbenzene][(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, Fe-01777
71004-55-2	Hexacarbonyldi- μ -mercaptodiiron, Fe-00103	71713-57-0	[(1,2,3,4,5,6- η)-Hexamethylbenzene][(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron(1+); Hexafluorophosphate, <i>in</i> Fe-01778
71049-99-5	1,1'-Bis(diphenylphosphino)-2-(1-hydroxyethyl)ferrocene; (1 <i>R</i> ,1' <i>S</i>)- <i>form</i> , <i>in</i> Fe-02118	71986-89-5	Dinitrosyl(η^3 -2-propenyl)(triphenylphosphine)iron(1+); Hexafluorophosphate, <i>in</i> Fe-01723
71154-94-4	[μ -(Carbonothioyl)]- μ -carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron, Fe-01163	71986-91-9	[(1,2,3- η)-2-Butenyl]-dinitrosyl(triphenylphosphine)iron(1+); Hexafluorophosphate, <i>in</i> Fe-01769
71154-94-4	[μ -(Carbonothioyl)]- μ -carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)diiron; <i>cis-form</i> , <i>in</i> Fe-01163	71988-11-9	Dicarbonyl-5-cholesten-3-yl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-02097
71163-59-2	Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-ethenylidene(triphenylphosphine)iron(1+); Trifluoromethanesulfonate, <i>in</i> Fe-01925	72020-68-9	Bis[μ -(benzenethiolato)]hexacarbonyldiiron; <i>cis-form</i> , <i>in</i> Fe-01521
71163-85-4	Ferrocenylphenylmethylum(1+); Hexafluorophosphate, <i>in</i> Fe-01491	72061-49-5	(η^5 -Carboxycyclopentadienyl)(η^6 -hexamethylbenzene)iron(1+), Fe-01579
71163-87-6	Ferrocenyldiphenylmethylum(1+); Hexafluorophosphate, <i>in</i> Fe-01791	72061-52-0	[(1,2,3,4,5- η)-1-Carboxylato-2,4-cyclopentadien-1-yl][(1,2,3,4,5,6- η)-hexamethylbenzene]iron compd. with HBF ₄ , <i>in</i> Fe-01579
71214-61-4	Di- μ -chlorobis[2-[(dimethylamino)methyl]-ferrocenyl- <i>C,N</i>]dipalladium; (<i>R</i>)- <i>form</i> , <i>in</i> Fe-01941	72120-26-4	Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(dimethylsulfonium- η -methylidene)iron(1+); Tetrafluoroborate, <i>in</i> Fe-00628
71252-87-4	Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,3,4,5-tetraphenyl-1 <i>H</i> -arsol-1-yl)iron, Fe-02101	72142-40-6	(η^4 -1,3-Butadiene)carbonyl[<i>N,N'</i> -1,2-ethanediyliidenebis[2-propanamine]- <i>N,N'</i>]iron, Fe-01121
71252-88-5	Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(2,3,4,5-tetraphenyl-1 <i>H</i> -stibol-1-yl)iron, Fe-02103	72142-41-7	Carbonyl(1,2,3,4- η)-2,3-dimethyl-1,3-butadiene[<i>N,N'</i> -1,2-ethanediyliidenebis[2-propanamine]- <i>N,N'</i>]iron, Fe-01360
71262-07-2	[(1,2,3,4- η)-1,3-Cycloheptadiene]-tris(trimethyl phosphite- <i>P</i>)iron, Fe-01466	72171-44-9	[(1,2,3- η)-2-Cycloocten-1-yl]tris(trimethyl phosphite- <i>P</i>)iron, Fe-01510
71262-09-4	[(1,2,3,4- η)-1,3-Cyclohexadiene]tris(trimethyl phosphite- <i>P</i>)iron, Fe-01363	72287-26-4	[1,1'-Bis(diphenylphosphino)ferrocene- <i>P,P'</i>]dichloropalladium, Fe-02092
71262-13-0	[(1,2,3,4- η)-1,3,5-Cyclooctatriene]-tris(trimethyl phosphite- <i>P</i>)iron, Fe-01508	72316-74-6	[(1,2,3- η)-2-Butenyl]tris(trimethyl phosphite- <i>P</i>)iron(1+); Tetraphenylborate, <i>in</i> Fe-01126
71262-14-1	[(1,2,3,4- η)-1,3,5-Cycloheptatriene]-tris(trimethyl phosphite- <i>P</i>)iron, Fe-01465	72318-19-5	Carbonyl(η^4 -1,3-cyclobutadiene)[1,2-ethanediybis[diphenylphosphine]- <i>P,P'</i>]iron, Fe-02037
71265-75-3	[(1,2,3,4,5- η)-2,4-Cyclohexadien-1-yl]-hydrobis(trimethyl phosphite- <i>P</i>)iron, Fe-00980	72330-81-5	(η^3 -2-Propenyl)tetrakis(trimethyl phosphite- <i>P</i>)-iron(1+); Tetraphenylborate, <i>in</i> Fe-01364
71265-76-4	(η^6 -Benzene)[(1,2,3,4- η)-1,3-cyclohexadiene]iron, Fe-00933	72380-68-8	1,1'-(Dimethylsilylene)ferrocene, Fe-00949
71317-82-3	Tetracarbonyl(diaminomethylene)iron, Fe-00077	72401-05-9	Tricarbonyl[(3,4,5,6- η)-1,2-dihydro-1-methoxyborin]iron, Fe-00413
71374-97-5	Tricarbonyl[η^4 -2-(oxoethylidene)-1,3-propanediyl]iron, Fe-00273	72415-00-0	Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-methyl(trimethylphosphine)iron, Fe-00643
71374-98-6	Tricarbonyl[η^4 -2-(2-hydroxyethylidene)-1,3-propanediyl]iron, Fe-00306	72415-86-2	(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-2,3,4,5-tetraphenyl-1 <i>H</i> -arsol-1-yl]iron, Fe-02075
71453-76-4	Octacarbonylbis[μ -(dimethylsilylene)]diiron, Fe-00916	72415-87-3	(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-2,3,4,5-tetraphenyl-1 <i>H</i> -phosphol-1-yl]iron, Fe-02076
71465-08-2	[(1,2,3,4,5,6- η)-Methylbenzene]bis(trimethyl phosphite- <i>P</i>)iron, Fe-01123	72444-61-2	Di- μ -carbonyldicarbonylbis[(3,4,5- η)-1-(1,1-dimethylethyl)-2,3-dihydro-3-methyl-2-phenyl-1 <i>H</i> -1,2-azaborol-3-yl- <i>B²,N¹</i>]diiron; <i>cis-form</i> , <i>in</i> Fe-02072
71465-09-3	[(1,2,3,4- η)-1,3-Cyclooctadiene][(1,2,3,4,5,6- η)-methylbenzene]iron, Fe-01353	72495-62-6	Bis(η^5 -2,4-cyclopentadien-1-yl)[μ -(1,2,3,3a,8b- η :5a,6,7,8,8a- η)-as-indacene]]diiron, Fe-01753
71465-10-6	[(1,2,5,6- η)-1,5-Cyclooctadiene][(1,2,3,4,5,6- η)-methylbenzene]iron, Fe-01354	72573-42-3	Dicarbonyldihydrobis(triphenyl phosphite- <i>P</i>)iron, Fe-02140
71465-11-7	[(1,2,3,4- η)-1,3,5-Cycloheptatriene]-[(1,2,3,4,5,6- η)-methylbenzene]iron, Fe-01216	72576-18-2	(η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-6-methylene-2,4-cyclohexadien-1-yl]iron, Fe-00890
71465-12-8	[(1,2,3,4- η)-1,3,5,7-Cyclooctatetraene]-[(1,2,3,4,5,6- η)-methylbenzene]iron, Fe-01339	72688-25-6	Carbonylhydronitrosylbis(triphenylphosphine)iron, Fe-02129
71497-14-8	Methyl[(1,2,3,4,5,6- η)-methylbenzene]bis(trimethyl phosphite- <i>P</i>)iron(1+); Tetrafluoroborate, <i>in</i> Fe-01280	72726-69-3	[2-[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-dien-7-yl]ethanol]tricarbonyliron, Fe-00910
71498-19-6	Dicarbonyl[(1,2,3,3a,7a- η)-1 <i>H</i> -inden-1-yl]methyliron, Fe-00849	72726-70-6	[2-[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-dien-7-yl]ethanol]tricarbonyliron; Methanesulfonyl, <i>in</i> Fe-00910
71562-91-9	Diferrocenylmethylum(1+); Hexafluorophosphate, <i>in</i> Fe-01722	72726-71-7	[2-[(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-dien-7-yl]ethanol]tricarbonyliron; Ac, <i>in</i> Fe-00910
71565-34-9	Tricarbonyl[(1,2,3,4- η)-1,3-hexadiene]iron; <i>syn-form</i> , <i>in</i> Fe-00432	72765-33-4	[(1,2,3,4- η)-1,3,5,7-Cyclooctatetraene]-[(1,2,3,4,5,6- η)-hexamethylbenzene]iron, Fe-01685
71565-37-2	Tricarbonyl[(1,2,3,4- η)-1,3-hexadiene]iron; <i>anti-form</i> , <i>in</i> Fe-00432	72765-35-6	(η^6 -Benzene)[(1,2,3,4- η)-1,3,5,7-cyclooctatetraene]iron, Fe-01192
71597-16-5	1,1'-Dicyclohexylferrocene, Fe-01775		
71636-98-1	Bis[μ -(6a,7,8,9,9a- η :9d,10,11,12,12a- η)-dicyclopenta[<i>c,g</i>]phenanthrene]]diiron, Fe-02149		
71637-01-9	Bis[μ -(1,2,3,3a,10c- η :7a,8,9,10,10a- η)-dicyclopenta[<i>a,h</i>]naphthalene]]diiron, Fe-02051		
71661-61-5	(η^5 -2,4-Cyclopentadien-1-yl)[η^5 -decahydropentaborato(1-)]iron, Fe-00089		
71661-62-6	(η^5 -2,4-Cyclopentadien-1-yl)[η^5 -pentadecahydrodecaborato(2-)]iron, Fe-00090		
71700-00-0	Tricarbonyl[η^4 -2-(2-ethylum-1-ylidene)-1,3-propanediyl]iron(1+), Fe-00291		

- 72840-16-5 Tri- μ -carbonyloctacarbonyl[μ_4 -[ethanaminato(2-)]-]
[μ_4 -(nitrosoethane-*N:N:O:O*)]tetrairon, Fe-01300
- 72859-65-5 [1,3-Bis(4-chlorophenyl)-1-triazenato-*N^1,N^3*]-carbonyl(η^5 -2,4-cyclopentadien-1-yl)iron, Fe-01527
- 72872-04-9 Dodecacarbonyl[μ_4 -(methoxyoxoethylidyne)]tetrafer-
rate(1-); Tetraethylammonium salt, in Fe-01285
- 72954-06-4 1,1'-(Phenylphosphinidene)ferrocene, Fe-01396
- 72954-07-5 1,1'-(Methylphosphinidene)ferrocene, Fe-00746
- 72954-08-6 1,1'-(Phenylarsinidene)ferrocene, Fe-01391
- 72960-69-1 1,3-Diferrocenyl-2-propen-1-one; (*E*)-form, in Fe-01801
- 73089-67-5 [(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene][1-
[1-(dimethylamino)ethyl]-2-
diphenylphosphino]ferrocene-*N,P*]rho-
dium(1+); (1*R*,1'*S*)-form, Hexafluorophos-
phate, in Fe-02086
- 73135-89-4 [(2,3,5,6- η)-Bicyclo[2.2.1]hepta-2,5-diene][1-
[1-(dimethylamino)ethyl]-2-
diphenylphosphino]ferrocene-*N,P*]rho-
dium(1+); (1*R*,1'*S*)-form, Perchlorate, in Fe-02086
- 73137-67-4 Nonacarbonyl- μ_3 -sulfinyl- μ_3 -thioxotriiron, Fe-00339
- 73153-27-2 Bis(η^5 -1*H*-phosphol-1-yl)iron, Fe-00313
- 73153-28-3 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-3,4-
dimethyl-1*H*-phosphole-2-carboxaldehydato]-
iron, Fe-00931
- 73153-29-4 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-3,4-
dimethyl-1*H*-phosphole-2-methanolato]iron, Fe-00958
- 73153-30-7 [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl]-
[1-[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-
phosphol-2-yl]ethanonato]iron, Fe-01252
- 73153-31-8 [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl]-
[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-2-
yl]phenylmethanonato]iron, Fe-01630
- 73153-32-9 Bis[1-[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-
2-yl]ethanonato]iron; Low-melting-form, in Fe-01436
- 73153-33-0 [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphole-2-
carboxaldehydato][[(1,2,3,4,5- η)-3,4-
dimethyl-1*H*-phosphol-1-yl]iron, Fe-01102
- 73153-34-1 [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphole-2-
methanolato][[(1,2,3,4,5- η)-3,4-dimethyl-
1*H*-phosphol-1-yl]iron, Fe-01115
- 73153-35-2 [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl]-
[(1,2,3,4,5- η)- α ,3,4-trimethyl-1*H*-
phosphole-2-methanolato]iron; High-melting-
form, in Fe-01270
- 73153-36-3 [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl]-
[(1,2,3,4,5- η)- α , α ,3,4-tetramethyl-1*H*-
phosphole-2-methanolato]iron, Fe-01358
- 73153-37-4 [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl]-
[(1,2,3,4,5- η)-2-ethyl-3,4-dimethyl-1*H*-
phosphol-1-yl]iron, Fe-01273
- 73176-96-2 Bis[1-[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-
2-yl]ethanonato]iron; High-melting-form, in Fe-01436
- 73176-97-3 [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl]-
[(1,2,3,4,5- η)- α ,3,4-trimethyl-1*H*-
phosphole-2-methanolato]iron; Low-melting-
form, in Fe-01270
- 73199-20-9 Di- μ -amidotetranitrosyldiiron, Fe-02218
- 73203-06-2 1-(Diphenylarsino)-1'-(diphenylphosphino)ferro-
cene, Fe-02090
- 73321-92-3 (η^5 -2,4-Cyclopentadien-1-yl)[1,2-
ethanedylbis[diphenylphosphine]-*P,P'*]methy-
leneiron(1+), Fe-02070
- 73434-97-6 Dicarbonyl(cyano-C)[(1,2,3,4- η)-1,3-
cycloheptadiene]ferrate(1-); Na salt, in Fe-00565
- 73435-03-7 Dicarbonyl(cyano-C)[(1,2,3,4- η)-1,3-
cycloheptadiene]ferrate(1-), Fe-00565
- 73435-05-9 Dicarbonyl(cyano-C)[(1,2,3,4- η)-1,3-
cyclohexadiene]ferrate(1-), Fe-00379
- 73435-07-1 Dicarbonyl(cyano-C)[(1,2,3,4- η)-1,3,5,7-
cyclooctatetraene]ferrate(1-), Fe-00671
- 73448-09-6 Octacarbonyl(μ -methylene)diiron, Fe-00340
- 73467-25-1 (η^4 -1,3-Butadiene)dicarbonyl(cyano-C)ferrate(1-), Fe-00196
- 73601-66-8 Dicarbonyl-2,4,6-cycloheptatrien-1-ylidene(η^5 -
2,4-cyclopentadien-1-yl)iron(1+); Hexafluoro-
phosphate, in Fe-01173
- 73609-66-2 [2-[(Dimethylamino)methyl]ferrocenyl-*C,N*]-2,4-
pentanedionato-*O,O'*palladium; (1*R*)-form, in Fe-01578
- 73643-71-7 Tetracarbonyl[*N*-(3-phenyl-2-propenylidene)-
methanamine]iron, Fe-01171
- 73643-79-5 Tricarbonyl[η^4 -*N*-(3-phenyl-2-propenylidene)-
methanamine]iron, Fe-01040
- 73770-98-6 Tricarbonyl[(2,3,4,5- η)-1-fluoro-1-methyl-
2,3,4,5-tetraphenyl-1*H*-germole]iron, Fe-02059
- 73771-00-3 Tricarbonyl[(1,2,3,4,5- η)-1-methyl-2,3,4,5-
tetraphenyl-1*H*-germol-1-yl]iron(1+); Tetra-
fluoroborate, in Fe-02060
- 73771-01-4 Tricarbonyl[(1,2,3,4,5- η)-1-methyl-2,3,4,5-
tetraphenyl-1*H*-germol-1-yl]iron(1+); Hexa-
fluoroantimonate, in Fe-02060
- 73836-74-5 Tricarbonyl[(2,3,4,5- η)-1-methyl-2,3,4,5-
tetraphenyl-1*H*-germol]iron; (*exo-H*)-form, in Fe-02061
- 73847-92-4 [(1,2,3,4,5- η)-6-Acetyl-1,3,5-
tris(trifluoromethyl)-2,4-cyclohexadien-1-
yl](η^5 -2,4-cyclopentadien-1-yl)iron; *exo*-form, in Fe-01379
- 73891-25-5 Tricarbonyl(η^3 -2-propenyl)[(triphenylphosphine)-
gold]iron, Fe-01821
- 74128-10-2 Di- μ -carbonylnonacarbonyl(dicarbonylferra-
te)- μ -hydrotriruthenate(1-), Fe-00990
- 74128-11-3 Di- μ -carbonyloctacarbonyl(dicarbonyliron)di- μ -
hydro(dimethylphenylphosphine)triruthenium, Fe-01649
- 74164-64-0 2-Amino-3-ferrocenylpropanoic acid; (*R*)-form, in Fe-01082
- 74164-65-1 2-Amino-3-ferrocenylpropanoic acid; (*S*)-form, in Fe-01082
- 74171-06-5 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)(η^2 -ethene)-
(triphenylphosphine)iron(1+); Hexafluoro-
phosphate, in Fe-01934
- 74171-07-6 Dicarbonyl(η^6 -2,4-cyclopentadien-1-yl)(1-
methoxyethylidene)iron(1+), Fe-00609
- 74171-08-7 Dicarbonyl(η^6 -2,4-cyclopentadien-1-yl)(1-
methoxyethylidene)iron(1+); Hexafluorophos-
phate, in Fe-00609
- 74219-69-5 Tricarbonyl[(2,3,4,5- η)-2,4-hexadienoic acid]iron;
(+)-*syn,syn*-form, Me ester, in Fe-00408
- 74227-06-8 Tricarbonyl[2,3,5,6-tetrakis(methylene)-7-
oxabicyclo[2.2.1]heptaneiron; *exo*-form, in Fe-01027
- 74242-52-7 Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadien-1-
one]iron; (2*S*)-form, in Fe-00355
- 74244-37-4 Tricarbonyl[2,3,5,6-tetrakis(methylene)-7-
oxabicyclo[2.2.1]heptaneiron; *endo*-form, in Fe-01027
- 74311-54-9 1-[1-(Dimethylamino)ethyl]-2-
(diphenylphosphino)ferrocene; (*R*)_C(*R*)_{planar}-
form, in Fe-01939
- 74438-48-5 Hexacarbonyldi- μ -thioxodiferrate(2-); Di-Li salt, in Fe-00098
- 74593-59-2 (η^5 -2,4-Cyclopentadien-1-yl)[(η^6 -phenyl)-
triphenylborato(1-)]iron, Fe-01990
- 74595-81-7 Nonacarbonyldi- μ -hydro[μ_3 -(phenylphosphini-
dene)]-
triiron, Fe-01289
- 74792-03-3 Dodecacarbonyl- μ -hydro- μ_4 -methanetetrayltetrafer-
rate(1-); Bis(triphenylphosphine)iminium
salt, in Fe-00992
- 74792-05-5 (Carbon)dodecacarbonyltetraferate(2-); Bis[bis-
(triphenylphosphine)iminium] salt, in Fe-00987
- 74792-06-6 Dodecacarbonyl- μ -hydro[μ_4 -(methylidyne-
C:C:C:C,*H*)]tetrairon, Fe-01000
- 74889-93-3 Tetracarbonyl[(1,2-dimethyl-1,2-ethenediyl)-
bis(diphenylsilylene)]iron, Fe-02065
- 74909-84-5 Octacarbonylbis[μ -(diphenylsilylene)]diiron, Fe-02055
- 74910-62-6 Bis(η^5 -2,4-pentadienyl)iron, Fe-00629
- 74910-63-7 Bis[(1,2,3,4,5- η)-3-methyl-2,4-pentadienyl]iron, Fe-00970
- 74910-64-8 Bis[(1,2,3,4,5- η)-2,3-dimethyl-2,4-pentadienyl]iron, Fe-01276

- 74914-96-8 Hexacarbonyl- μ -carbonylbis- μ -(methylphenylsilanediyl)diiron, Fe-01710
- 74920-98-2 Bis[(1,2,3,4,5- η)-2,4-dimethyl-2,4-pentadienyl]iron, Fe-01277
- 74964-92-4 Bis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(3,4- η :3,4- η)-3,4-diethyl-2,5-dihydro-2,5-dimethyl-1,2,5-thiadiborole- $B^2, B^5, S^1: B^2, B^5, S^1$]]triiron, Fe-01944
- 75038-47-0 Tri- μ -carbonylundecacarbonyl- μ -hydro- μ_5 -nitridopentairon, Fe-01135
- 75038-48-1 Dodecacarbonyl- μ -hydro- μ_4 -nitridotetrairon, Fe-00805
- 75059-85-7 (1-*tert*-Butyl-3-methyl-2-phenyl-1*H*-1,2-azaborol-3-yl- B^2, N^1)dicarbonyliodoiron, Fe-01430
- 75070-23-4 Di- μ_3 -carbonylnonacarbonyltriferrate(2-); Bis-(tetraethylammonium) salt, *in* Fe-00652
- 75070-24-5 Di- μ_3 -carbonylnonacarbonyltriferrate(2-); Bis-(tetraphenylarsonium) salt, *in* Fe-00652
- 75070-28-9 (η^4 -1,3-Butadiene)dicarbonyl(isocyanomethane)iron, Fe-00317
- 75070-56-3 (η^4 -1,3-Butadiene)dicarbonyl(cyano-*C*)ferrate(1-); Na salt, *in* Fe-00196
- 75071-60-2 Carbonylbis(η^5 -2,4-cyclopentadien-1-yl)bis[μ -(dithio-*S:S,S'*)diiron, Fe-00727
- 75103-94-5 1,1'-Triselenoferrocene, Fe-00542
- 75109-70-5 Di- μ -carbonyldicarbonylbis[(3,4,5- η)-1-(1,1-dimethylethyl)-2,3-dihydro-3-methyl-2-phenyl-1*H*-1,2-azaborol-3-yl- B^2, N^1]diiron; *trans*-form, *in* Fe-02072
- 75310-10-0 Astechrome, Fe-02202
- 75325-34-7 Di- μ -carbonyldicarbonylbis[(3,4,5- η)-1-(1,1-dimethylethyl)-2,3-dihydro-2-methyl-1*H*-1,2-azaborol-3-yl- B^2, N^1]diiron; *cis*-form, *in* Fe-01691
- 75325-35-8 Dicarbonyl[(3,4,5- η)-1-(1,1-dimethylethyl)-2,3-dihydro-2-methyl-1*H*-1,2-azaborol-3-yl- B^2, N^1](trimethylsilyl)iron, Fe-01122
- 75334-22-4 [(3,4,5- η)-1-*tert*-Butyl-2,3-dihydro-2-methyl-1*H*-1,2-azaborol-3-yl- B^2, N^1]iodoiron, Fe-00637
- 75334-24-6 Dodecacarbonyl- μ_4 -nitridotetraferrate(1-); Tetraethylammonium salt, *in* Fe-00802
- 75339-31-0 Tricarbonyl(η^5 -2,4-cyclopentadien-1-yl)-[dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-iron]chromium, Fe-01295
- 75349-16-5 1,1'-(Diphenylgermylene)ferrocene, Fe-01748
- 75364-55-5 Di- μ -carbonyldicarbonylbis[(3,4,5- η)-1-(1,1-dimethylethyl)-2,3-dihydro-2-methyl-1*H*-1,2-azaborol-3-yl- B^2, N^1]diiron; *trans*-form, *in* Fe-01691
- 75364-98-6 Tetracarbonyl(methoxycarbonyl)ferrate(1-); Tris-(dimethylamino)methylum salt, *in* Fe-00109
- 75599-43-8 Bis[(1,2,3,4,5- η)-1-acetyl-2,4-cyclopentadien-1-yl]di- μ -carbonyldicarbonyldiiron; *cis*-form, *in* Fe-01546
- 75657-76-0 Bis[(1,2,3,4,5- η)-1-acetyl-2,4-cyclopentadien-1-yl]di- μ -carbonyldicarbonyldiiron; *trans*-form, *in* Fe-01546
- 75663-01-3 $\triangleright$ Tricarbonyl[(1,2,3- η)-2,4,6-cycloheptatrien-1-yl]ferrate(1-); K salt, *in* Fe-00504
- 75765-31-0 Tricarbonyl[(1,2,3,4- η)-1-methyl-1,3-cyclohexadiene]iron; (1*R*)-form, *in* Fe-00577
- 75765-32-1 Tricarbonyl[(1,2,3,4- η)-2-methyl-1,3-cyclohexadiene]iron; (2*R*)-form, *in* Fe-00578
- 75811-60-8 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -ethylidenediiron; *cis*-form, *in* Fe-01336
- 75812-18-9 Dicarbonyl[(2,3,4,5- η)-2,3,4,5-tetraphenyl-2,4-cyclopentadien-1-one](triphenylphosphine)iron, Fe-02184
- 75818-23-4 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(η^2 -ethenyl)]diiron(1+); Tetrafluoroborate, *in* Fe-01329
- 75826-53-8 Bis[(η^6 -phenyl)ferrocene]chromium(1+); Iodide, *in* Fe-02067
- 75829-77-5 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -ethylidenediiron; *trans*-form, *in* Fe-01336
- 75830-49-8 1,1'-Bis(*N,N*-dimethylamino)ferrocene, Fe-01269
- 75866-39-6 Tetracarbonyliodo(pentafluoroethyl)iron, Fe-00093
- 75917-59-8 Tetracarbonyliodo(trifluoromethyl)iron, Fe-00063
- 75936-29-7 $\triangleright$ Octacarbonyl[μ -(dimethylsilylene)]diiron, Fe-00499
- 75936-43-5 Hexacarbonylbis(η^3 -2-propenyl)diiron, Fe-00872
- 75995-44-7 μ -Carbonylundecacarbonyl[μ_3 -(methoxymethylidyne)]tetraferate(1-); Bis-(triphenylphosphine)iminium salt, *in* Fe-01136
- 76046-99-6 Tricarbonyl[(1,2,3,4,5- η)-1-hydroxy-2,3,4,5-tetraphenyl-2,4-cyclopentadien-1-yl]iron(1+); Dimeric Ag salt, bis(hexafluorophosphate), *in* Fe-02057
- 76082-12-7 1,1'-Ferrocenylenedicopper, Fe-00515
- 76119-23-8 μ -Carbonyltridecacarbonyl- μ_5 -nitridopentaferate(1-); Tetraethylammonium salt, *in* Fe-01133
- 76136-68-0 Tetracarbonylbis(trifluoroacetyl)iron; *cis*-form, *in* Fe-00239
- 76136-70-4 Tetracarbonylbis(trifluoromethyl)iron; *cis*-form, *in* Fe-00094
- 76136-71-5 Tetracarbonylbis(pentafluoroethyl)iron; *trans*-form, *in* Fe-00243
- 76185-26-7 Hexacarbonyl[μ -(diseleno-*Se, Se': Se, Se'*)diiron, Fe-00100
- 76185-27-8 Hexacarbonyl[μ -(ditelluro-*Te, Te': Te, Te'*)diiron, Fe-00101
- 76187-93-4 Dodecacarbonyl[μ_4 -(methanethiolato(4-)-*C:C:C:S*)]- μ_3 -thioxotetrairon, Fe-00988
- 76189-74-7 Tetracarbonylbis(pentafluoroethyl)iron; *cis*-form, *in* Fe-00243
- 76299-43-9 Dicarbonyl(1,4-dimethyl-1,3-tetrazadiene-*N^1, N^4*)-(triphenylphosphine)iron, Fe-01767
- 76374-09-9 1-[1-(Dimethylamino)ethyl]-2-(diphenylphosphino)ferrocene; (*R*)_C(*S*)_{planar}-form, PdCl₂ complex, *in* Fe-01939
- 76648-77-6 [(Benzylthio)thioxomethyl]-dicarbonylbis(trimethylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-01457
- 76683-34-6 Hexacarbonyldi- μ -selenyldiiron, Fe-00104
- 76722-37-7 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -ethenylidenediiron, Fe-01315
- 76747-90-5 (η^6 -Benzene)[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron, Fe-01439
- 76747-92-7 (η^6 -Benzene)[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron(1+), Fe-01440
- 76747-93-8 (η^6 -Benzene)[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron(1+); Hexafluorophosphate, *in* Fe-01440
- 76791-95-2 Nonacarbonyl- μ -hydro- μ_4 -nitrido(tricarbonyliron)triruthenium, Fe-00804
- 76791-99-6 Dodecacarbonyl- μ_4 -nitridotetraferrate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00802
- 77188-00-2 Bis[(1,2,3,4,5- η)-2,5-dimethyl-1*H*-stibol-1-yl]iron, Fe-00969
- 77308-83-9 Tricarbonyl(di- μ -carbonylhexacarbonyldiiron)-(triphenylphosphine)ruthenium, Fe-01980
- 77456-69-0 μ_3 -Carbonylnonacarbonyl- μ_3 -imidotriiron, Fe-00478
- 77486-94-3 (η^5 -2,4-Cyclopentadien-1-yl)(η^6 -nitrobenzene)iron(1+); Hexafluorophosphate, *in* Fe-00706
- 77673-80-4 Bis[μ -(dimethylarsino)]tetranitrosyldiiron, Fe-00057
- 77674-76-1 Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]diiron; *cis*-form, *in* Fe-01571
- 77674-77-2 Dicarbonylchloro[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]iron, Fe-00414
- 77681-74-4 Bis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylenedinitrosyldiiron, Fe-00763
- 77715-23-2 Di- μ -carbonyldicarbonylbis[(1,2,3,4,5- η)-2,4-cycloheptadien-1-yl]diiron; *trans*-form, *in* Fe-01571
- 77829-49-3 Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadiene-1-carboxaldehyde]iron; *exo*-form, *in* Fe-00535

- 78023-46-8 [μ_4 -(Carbonothioyl-C:C:S:S)]tridecacarbonyldi- μ_3 -thioxopentairon, Fe-01134
- 78100-23-9 1,1'-Diselenylferrocene, Fe-00593
- 78100-24-0 1,1'-Bis(2,4-cyclopentadien-1-ylidenemethyl)ferrocene, Fe-01744
- 78192-39-9 (η^5 -2,4-Cyclopentadien-1-yl)-tris(trimethylphosphine)iron(1+); Bromide, *in* Fe-01282
- 78192-41-3 (η^5 -2,4-Cyclopentadien-1-yl)-tris(trimethylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-01282
- 78192-43-5 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-bis(trimethylphosphine)iron(1+); Tetrafluoroborate, *in* Fe-00978
- 78192-44-6 Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-bis(trimethylphosphine)iron(1+); Hexafluorophosphate, *in* Fe-00978
- 78192-45-7 Bromocarbonyl(η^5 -2,4-cyclopentadien-1-yl)-bis(trimethylphosphine)iron, Fe-00455
- 78192-49-1 Dicarboxyl(η^5 -2,4-cyclopentadien-1-yl)-bis(trimethylphosphine)iron(1+); Tetrafluoroborate, *in* Fe-00632
- 78192-57-1 (η^5 -2,4-Cyclopentadien-1-yl)-iodobis(trimethylphosphine)iron, Fe-00791
- 78192-62-8 (η^5 -2,4-Cyclopentadien-1-yl)-methylbis(trimethylphosphine)iron, Fe-00981
- 78192-65-1 (Cyano-C)(η^5 -2,4-cyclopentadien-1-yl)-bis(trimethylphosphine)iron, Fe-00977
- 78192-71-9 (η^5 -2,4-Cyclopentadien-1-yl)-tris(trimethylphosphine)iron(2+); Bis(hexafluorophosphate), *in* Fe-01283
- 78207-64-4 [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphole-2-carbonitrilato][(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-1-yl]iron, *in* Fe-01103
- 78207-65-5 [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphol-1-yl][(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphole-2-carboxylato]iron; Et ester, *in* Fe-01103
- 78220-35-6 [(1,2,3,4,5- η)-3,4-Dimethyl-1*H*-phosphole-2-carboxaldehydato][(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-1-yl]iron; Oxime, *in* Fe-01102
- 78223-13-9 Dicarboxyl(cyano-C)[(1,2,3,4,5- η)-2,4-cyclooctadien-1-yl]iron, Fe-00738
- 78247-01-5 Bis[1-[(1,2,3,4,5- η)-3,4-dimethyl-1*H*-phosphol-2-yl]ethanonato]iron, Fe-01436
- 78248-93-8 Nonacarbonyl[μ_4 [(1- η :1,2- η :1,2- η :2- η)-1,2-diphenyl-1,2-ethenediyl]](tricarboxyliron)triruthenium; *axial-form*, *in* Fe-01915
- 78248-94-9 Nonacarbonyl[μ_4 [(1- η :1,2- η :1,2- η :2- η)-1,2-diphenyl-1,2-ethenediyl]](tricarboxyliron)triruthenium; *equatorial-form*, *in* Fe-01915
- 78379-01-8 (η^5 -2,4-Cyclopentadien-1-yl)[(1,2,3,4,5- η)-1-phenyl-2,4-cyclohexadien-1-yl]iron, Fe-01494
- 78393-28-9 Tricarbonyl[(1,2,3,4- η)-5,5,6,6-tetramethyl-1,3-cyclohexadiene]iron, Fe-01105
- 78529-72-3 Bis[(2,3,4,5- η)-1,1,3,4-tetramethyl-1*H*-phospholium]iron(1+); Iodide, *in* Fe-01462
- 78534-54-0 Di- μ -carbonyldicarbonylbis[(3,4,5- η)-2,3-dihydro-2-methyl-1*H*-1,2-azaborol-3-yl-*B*²,*N*¹]diiron, Fe-00932
- 78547-62-3 Nonacarbonyldi- μ -hydro- μ_3 -thioxotriiron, Fe-00342
- 78549-84-5 Bis[(2,3,4,5- η)-1-*tert*-butyl-1,3,4-trimethyl-1*H*-phospholium]iron(1+); Iodide, *in* Fe-01780
- 78571-89-8 Nonacarbonyldi- μ_3 -imidotriiron, Fe-00341
- 78571-90-1 Di- μ -carbonylnonacarbonyl(dicarbonylferrate)- μ -hydrotriruthenate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00990
- 78571-92-3 Hexacarbonyl(μ -carbonylhexacarbonyldiferrate)- μ -hydrodiruthenate(1-); Bis(triphenylphosphine)iminium salt, *in* Fe-00991
- 78656-40-3 Carbonylbis(η^5 -2,4-cyclopentadien-1-yl)-tris(isocyanomethane)diiron, Fe-01499
- 78684-57-8 Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadiene-1-carboxylic acid]iron; *exo-form*, Me ester, *in* Fe-00540
- 78684-58-9 Tricarbonyl[(2,3,4,5- η)-2,4-cyclohexadiene-1-carboxylic acid]iron; *endo-form*, Me ester, *in* Fe-00540
- 78777-39-6 [μ_3 -(C- η :C,O- η)-Acetyl-O]]nonacarbonyltriferrate(1-); Tetraethylammonium salt, *in* Fe-00654
- 79043-00-8 Nonacarbonylbis[μ -(diphenylphosphino)]-(tetracarboxyliron)triruthenium, Fe-02120
- 79061-16-8 Dodecacarbonyl- μ -hydro[μ_4 -(methoxymethyldiene-C:C:C:C,O)]tetrairon, Fe-01137
- 79061-73-7 μ -Carbonyldodecacarbonyl- μ_4 -methanetetrayltetrairon, Fe-01132
- 79080-64-1 [(1,2,3,4,5,6- η)-Methylbenzene][(1,2,3,4- η)-methyl-1,3-cyclohexadiene]iron, Fe-01248
- 79102-83-3 Bis[(η^6 -phenyl)ferrocene]chromium(1+); Tetraphenylborate, *in* Fe-02067
- 79105-24-1 [(1,2,3,4,5,6- η)-1,3,5-Cycloheptatriene](η^5 -2,4-cyclopentadien-1-yl)iron(1+); Tetrafluoroborate, *in* Fe-00924
- 79105-28-5 (η^5 -2,4-Cyclopentadien-1-yl)tris(trimethyl phosphite-*P*)iron(1+); Hexafluorophosphate, *in* Fe-01281
- 79110-72-8 Dicarboxyl(η^2 -ethene)bis(trimethyl phosphite-*P*)iron, Fe-00649
- 79122-13-7 [(1,2,3,4,5,6- η)-1,3,5,7-Cyclooctatetraene](η^5 -2,4-cyclopentadien-1-yl)iron(1+); Hexafluorophosphate, *in* Fe-01061
- 79132-92-6 Tricarbonyl[(2,3,4,5- η)-1,1,2,3,4,5-hexaphenyl-1*H*-germole]iron, Fe-02163
- 79151-52-3 Decakis(methoxycarbonyl)ferrocene, *in* Fe-01644
- 79199-46-5 Tricarbonyl[(2,3,4,5- η)-1-fluoro-1-methyl-2,3,4,5-tetraphenyl-1*H*-germole]iron; (*exo-F*)-form, *in* Fe-02059
- 79201-10-8 Tricarbonyl[4-(η^4 -1,3-butadienyl)benzoic acid]iron; Me ester, *in* Fe-01158
- 79215-47-7 Tricarbonyl[4-(η^4 -1,3-butadienyl)benzoic acid]iron, Fe-01158
- 79255-02-0 Hexacarbonyldi- μ -thioxodiferrate(2-); Di-K salt, *in* Fe-00098
- 79301-47-6 [(2,3,4,5- η)-Bicyclo[4.1.0]hepta-2,4-diene]tricarbonyliron; *syn-form*, *in* Fe-00526
- 79311-46-9 Tricarbonyl[(1,2,3,4- η)-1-ethoxy-1,3-cyclobutadiene]iron, Fe-00400
- 79354-76-0 3-Ferrocenyl-1-ruthenocenyl-2-propen-1-one; (*E*)-form, *in* Fe-01800
- 79389-26-7 [(2,3,4,5- η)-Bicyclo[4.1.0]hepta-2,4-diene]tricarbonyliron; *anti-form*, *in* Fe-00526
- 79408-08-5 Bis(μ -hydrothioxo)tetranitrosyldiiron, Fe-02217
- 79408-11-0 Dichlorodinitrosylferrate(1-); Tetraphenylarsonium salt, *in* Fe-02207
- 79483-30-0 Octacarbonylbis(trimethylsilyl)diiron, Fe-01258
- 79623-84-0 Tricarbonyl[(1,2,3,4- η)-*N,N*-trimethyl-1,3-cyclobutadiene-1-methanaminiumiron(1+) iodide, *in* Fe-00602
- 79643-37-1 1-Ferrocenyl-3-ruthenocenyl-2-propen-1-one; (*E*)-form, *in* Fe-01799
- 79827-00-2 Bis(μ -benzylthio)tetranitrosyldiiron, Fe-01209
- 79839-80-8 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylenediiron; *cis-form*, *in* Fe-01183
- 79891-14-8 Tricarbonyl[(3a,6,7,7a- η)-2,3,4,5-tetrahydro-1*H*-indene]iron, Fe-00908
- 79891-15-9 Tricarbonyl[(3a,4,7,7a- η)-2,3,5,6-tetrahydro-1*H*-indene]iron, Fe-00907
- 79896-43-8 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylenediiron; *trans-form*, *in* Fe-01183
- 79919-43-0 Bis(μ -benzeneselenolato)tetranitrosyldiiron, Fe-00870
- 79919-44-1 Bis(μ -benzylseleno)tetranitrosyldiiron, Fe-01210
- 79919-45-2 Bis(μ -benzenetelluroolato)tetranitrosyldiiron, Fe-00871
- 79919-46-3 Bis(μ -benzyltelluro)tetranitrosyldiiron, Fe-01211
- 80461-93-4 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylenediiron(1+), Fe-01174
- 80461-95-6 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylenediiron(1+); Tetrafluoroborate, *in* Fe-01191
- 80461-96-7 μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylenediiron(1+); Trifluoromethanesulfonate, *in* Fe-01191
- 80464-85-3 [(1,2,3,4,5,6- η)-Methylbenzene][(7,8,9,10,11- η)-1,2,3,4,5,6,8,10,11-nonahydro-7,9-dimethyl-7,9-dicarbaundecaborato(2-)]iron, Fe-00789

80491-94-7	Tricarbonyl[(2,3,4,5- η)-1-sila-2,4-cyclohexadiene]iron, Fe-00304	82246-68-2	Tetracarbonylbis(η^5 -2,4-cyclopentadien-1-yl)-(zinc)diiron, Fe-01165
80506-96-3	Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(pyridine)iron(1+); Tetrafluoroborate, <i>in</i> Fe-00846	82614-06-0	Nonacarbonyl(μ_3 -phenylphosphido)(μ_3 -thio)triiron, Fe-01287
80572-82-3	[(μ_4 -(Boryl- <i>B:B:H:H'</i>)]dodecacarbonyl- μ -hydrotetrairon, Fe-00806	82660-14-8	μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylidynediiron(1+); Hexafluorophosphate, <i>in</i> Fe-01174
80878-91-7	Tetrakis[μ_3 -(carbonyl- <i>C,C,O</i>)]-(heptacarbonyltriiron)tetrakis[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]diytterbium, Fe-02188	82661-39-0	Dicarbonylnitrosyl[(1,2,3- η)-4-oxo-1,2,3-triphenyl-2-cyclobuten-1-yl]iron, Fe-01812
80923-39-3	Tetracarbonylbis(heptafluoropropyl)iron, Fe-00476	82661-42-5	Dicarbonylnitrosyl[(1,2,3- η)-1,2,3-triphenyl-2-cyclopropen-1-yl]iron, Fe-01785
81456-90-8	Dodecacarbonylbis(μ_4 -phenylphosphino)tetrairon, Fe-01811	82665-68-7	Octacarbonyl(μ -ethylidene)diiron, Fe-00484
81478-18-4	Dodecacarbonylbis[μ_4 -(1,1-dimethylethyl)-phosphino]tetrairon, Fe-01673	82665-73-4	Octacarbonyl(μ -methoxymethylene)diiron, Fe-00485
81534-72-7	μ -Carbonyldecacarbonylbis[μ_4 -(1,1-dimethylethyl)phosphino]tetrairon, Fe-01627	82704-19-6	[(1,2,3,4,5,6- η)-Hexamethylbenzene]-[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]iron, Fe-01279
81534-73-8	μ -Carbonyldecacarbonylbis(μ_4 -phenylphosphino)-tetrairon, Fe-01783	82733-98-0	[(1,2,3,4,5,6- η)-1,3,5-Trimethylbenzene]-[(7,8,9,10,11- η)-undecahydro-7,8-dicarbaundecaborato(2-)]iron, Fe-00790
81616-44-6	μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(methoxymethylene)]diiron, Fe-01337	82798-50-3	(η^6 -Benzene)[(1,2,5,6- η)-1,5-cyclooctadiene]iron, Fe-01242
81616-44-6	μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(methoxymethylene)]diiron; <i>cis-form</i> , <i>in</i> Fe-01337	82798-51-4	(η^6 -Benzene)[(1,2,3,4- η)-1,3,5-cycloheptatriene]iron, Fe-01065
81616-50-4	μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -methylidynediiron(1+); Tetrafluoroborate, <i>in</i> Fe-01174	83006-17-1	Tricarbonyl[(2,3,4,5- η)-2,4,6-cycloheptatrien-1-yl]trimethylsilane]iron, Fe-01106
81616-54-8	μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)- μ -propylidenediiron, Fe-01423	83058-33-7	Tricarbonyl[(2,3,4,5- η)-2,4,6-cycloheptatrien-1-yl]trimethylgermane]iron, Fe-01096
81616-61-7	Carbonyl(η^5 -2,4-cyclopentadien-1-yl)-(methoxymethylene)(triphenylphosphine)iron-(1+); Tetrafluoroborate, <i>in</i> Fe-01935	83058-34-8	Tricarbonyl[(2,3,4,5- η)-2,4,6-cycloheptatrien-1-yl]triphenylgermane]iron, Fe-01961
81654-89-9	μ -Carbonyldicarbonylbis(η^5 -2,4-cyclopentadien-1-yl)[μ -(methoxymethylene)]diiron; <i>trans-form</i> , <i>in</i> Fe-01337	83096-10-0	[(2,3- η)-Butyne]carbonyl(η^5 -2,4-cyclopentadien-1-yl)(triphenyl phosphite- <i>P</i>)iron(1+), Fe-01971
81847-65-6	Dicarbonyl[<i>N,N'</i> -(1,2-dimethyl-1,2-ethanediylidene)bis(benzenamine)- <i>N,N'</i>](trimethylphosphine)iron, Fe-01730	83147-01-7	Nonacarbonyl[μ_3 -(phenylarsinidene)]- μ_3 -thioxotriiron, Fe-01286
81923-59-3	Bis[(3,4- η)-4,5-diethyl-1,2,2,3-tetramethyl-1-aza-2-sila-5-boracyclopent-3-ene- <i>B^5,N^1</i>]iron, Fe-01696	83270-10-4	(μ_3 -Dibromoferrio)(μ_5 -carbon)dodecacarbonyltetraferate(2-); Bis(tetraethylammonium) salt, <i>in</i> Fe-00986
81939-62-0	Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)(1-methylethylidene)iron(1+); Tetrafluoroborate, <i>in</i> Fe-00605	83270-11-5	(Carbon)dodecacarbonyltetraferate(2-); Bis(tetraethylammonium) salt, <i>in</i> Fe-00987
81939-66-4	Dicarbonyl(η^6 -2,4-cyclopentadien-1-yl)(1-methoxyethylidene)iron(1+); Tetrafluoroborate, <i>in</i> Fe-00609	83350-15-6	μ -Carbonylpentacarbonyl(η^5 -2,4-cyclopentadienyl)iron- μ -methylenemanganese, Fe-00820
81952-05-8	Tricarbonyl[(3,4- η)-4,5-diethyl-1,2,2,3-tetramethyl-1-aza-2-sila-5-boracyclopent-3-ene- <i>B^5,N^1</i>]iron, Fe-01120	83633-75-4	[(1,2,3,3a,13a,14,15,16,16a,16f- η)-Diindeno(5,4- <i>c</i> ,4',5'- <i>g</i>)phenanthrene]iron, Fe-01958
82025-16-9	Tricarbonyl[(1,2,3,4,5- η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]iron-(1+); Hexafluorophosphate, <i>in</i> Fe-01087	84582-97-8	[(1,2,3,4,5,6- η)-1,3,5-Cyclooctatriene]-[(1,2,3,4,5- η)-penta-1,2-diethyl-1,2-dicarbapentaborato(2-)]iron, Fe-01278
82109-57-7	[μ_3 -(Carbonothioyl)]octacarbonyldi- μ -thioxotriiron, Fe-00335	84582-99-0	(η^6 -Benzene)[(2,3,4,5,6- η)-2,2-diethyl-1,4,5,6-tetrahydro-2,3-dicarbahexaborato(2-)]iron, Fe-00973
82121-00-4	Dicarbonyl(η^5 -2,4-cyclopentadien-1-yl)-(dimethylbismuthino)iron, Fe-00442	84583-04-0	[(1,2,3,4,5,6- η)-1,3,5-Cyclooctatriene]-[(2,3,4,5,6- η)-2,3-dimethyl-1,4,5,6-tetrahydro-2,3-dicarbahexaborato(2-)]iron, Fe-00974

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edited by G. R. Knox

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