

Ring Index

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This index lists the heterocyclic parent ring systems and has been compiled from the occurrences of those systems and their derivatives in Volumes 1-15 in the text, tables, equations, and schemes. Heterocycles have been included when they occur as a starting material, isolable intermediate, or a product, but not when they are reported as a nonisolable intermediate or a solvent.

Compounds are generally classified according to their fully unsaturated parent compound (but see below). Thus substituted, partially saturated, and fully saturated derivatives of, for example, pyrrole are all indexed under pyrrole. Benzo and similar derivatives are included under the most unsaturated parent system (e.g., quinoline, thienofuran, etc.). For any given heterocyclic parent only one indicated hydrogen isomer appears in the text, typically the most stable or the lowest numbered form; thus all instances of pyran, whether of the 2H- or 4H-form, are indexed under 2H-pyran. The charges and additional valences for any heterocyclic parent structure are not indicated.

The overall style follows that used in Chemical Abstracts and the first two editions of Comprehensive Heterocyclic Chemistry, but in order to keep the size of the index within reasonable bounds more attention has been paid to the monocyclic and bicyclic rings and only systems containing up to six fused rings have been included. For the same reason a limit on individual ring size in any system has been placed at 12 atoms. Also complexes of metals, clusters and carcass structures are not included.

Heterocyclic systems can be named by various methods, depending on ring size, the presence of metal atoms, the availability of trivial names, etc. For this index the naming of the heterocyclic parents has generally followed the practices of IUPAC. Thus Hantzsch-Widman names have been employed for monocyclic systems and for the other systems when the smallest ring size is five atoms or more, but replacement nomenclature has usually been followed for bicyclic and higher systems when they contain three- and four-membered rings. The drawing of compounds and naming was done using CS ChemDraw Ultra program with an application of ACS setting.

In addition to the name and structure of each parent system, the ring numbering of the system has also been given in every case.

Index entries are divided into two categories, primary and secondary. Primary index entries (page numbers printed in bold) occur when a significant part of a chapter is devoted to a particular ring system. Secondary index entries occur when a heterocyclic system is mentioned in a chapter devoted to other systems. This may be, for example, as a starting material or as a product, or in a discussion comparing properties.

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AsCP Phospharsirane 1, 718		CGe ₂ Digermirane 1, 749–793	
AsSiTe 1H-Tellurarsasilirene 1, 679–693		CIrSi Siliridacyclopropane 1, 749–793	
BXY X,Y- C,N, elements 1, 513–537; 1, 720		C(M)N Metallaziridine 1, 749–793	
CAs(M) Metallaarsirane 1, 749–793		C(M)P Metallaphosphirane 1, 749–793	
CB ₂ Diborirane 1, 759		C(M)S Metallathiirane 1, 749–793	
3H-Diborirene 1, 759		C(M)Si Metallasilirane 1, 749–793	
CCoP Phosphacobaltacyclopropane 1, 749–793		CMnN Azamanganacyclopropane 1, 749–793	
CFeP Phosphaferrocyclopropane 1, 749–793		CMnP Phosphamanganacyclopropane 1, 749–793	
CFeS Thiaferrocyclopropane 1, 749–793		CMoP Phosphamolybdacyclopropane 1, 749–793	
CGeS Thiagermirane 1, 787		CMoS Thiamolybdacyclopropane 1, 749–793	
Thiagermirene 1, 787		CNNi Azanickelacyclopropane 1, 749–793	
CGeSe Selenagermirane 1, 787		CNO Oxaziridine 1, 559–621	
CGeTe Telluragermirane 1, 787		Oxazirine 1, 559–621	

CNP 2H-Azaphosphirene 1, 712, 715		CORe Oxarhenacyclopropane 1, 749–793	
CNRe Azarhenacyclopropane 1, 749–793		COS Oxathiirene 1, 641–677	
CNS Thiazirene 1, 623–640		COTi Oxatitanacyclopropane 1, 749–793	
Thiazirene 1, 623–640		COV Oxavanadacyclopropane 1, 749–793	
CNSe Selenazirine 1, 679–693		COW Oxatungstacyclopropane 1, 749–793	
CNSi Azasiliridine 1, 773, 773–774		COZr Oxazirconacyclopropane 1, 749–793	
CNV Azavanadacyclopropane 1, 749–793		COsP Phosphosmacyclopropane 1, 749–793	
Azatungstacyclopropane 1, 749–793		COsS Thiosmacyclopropane 1, 749–793	
CNZr Azazirconacyclopropane 1, 749–793		COsSe Selenosmacyclopropane 1, 749–793	
CNbO Oxaniobacyclopropane 1, 749–793		COsTe Tellurosacyclopropane 1, 679–693	
CN ₂ Diaziridine 1, 539–557		CO ₂ Dioxirane 1, 641–677; 6, 150f	
3H-Diazirine 1, 539–557; 5, 508		CPPt Phosphaplatinacyclopropane 1, 749–793	
COFe Oxaferracyclopropane 1, 749–793		CPre Phospharhenacyclopropane 1, 749–793	
COOs Oxosmacyclopropane 1, 749–793		CPRu Phospharuthenacyclopropane 1, 749–793	

CPSb

Phosphastibirane
1, 719Disilirene
1, 770

CPSe

Selenaphosphirene
1, 679–693CSn₂Distannirane
1, 786

CPSi

Phosphasilirane
1, 773–774CS₂Dithiirane
1, 641–677

CPW

Phosphatungstacyclopropane
1, 749–793Dithiirane
1, 641–677CPb₂Diplumbirane
1, 770C₂BBorirane
1, 513–537

CPdS

Thiapalladacyclopropane
1, 749–7931H-Borirene
1, 513–537CP₂Diphosphirane
1, 695–747, 696, 720, 733C₂GeGermirane
1, 483–5121H-Diphosphirene
1, 715C₂NAziridine
1, 1–104; 6, 100; 7, 290, 290; 9, 337; 2, 823H-Diphosphirene
1, 713, 720, 7331H-Azirine
1, 82; 1, 105–172; 4, 522, 8, 500

CSW

Thiatungstacyclopropane
1, 749–7932H-Azirene
1, 105–172, 151; 6, 155*t*; 6, 165*t*

CSZr

Thiazirconacyclopropane
1, 749–793C₂OOxirane
1, 173–233; 2, 351, 2, 783, 784

CSeSi

Selenasilirene
1, 641–677Oxirene
1, 173–233, 215; 6, 153*f*; 6, 169*f*;
6, 182–183

CSiW

Silatungstacyclopropane
1, 749–793C₂PPhosphirane
1, 457–481CSi₂Disilirane
1, 7701H-Phosphirene
1, 457–481; 2, 896; 2, 931

C₂S
Thiirane
1, 299–390; 2, 416



C₂Te
Tellurirane
1, 433–453



Thiirene
1, 299–390; 6, 182; 8, 662



GeSi₂
Disilagermacycloprop-1-ene
6, 669



C₂Se
Selenirane
1, 433–453



Ge₂Si
Siladigermacyclopropane
2, 954–955; 3, 1206



Selenirene
1, 433–453



1-Sila-2,3-digermacycloprop-2-ene
2, 964, 969



C₂Si
Silirane
3, 1213–1214



Ge₃
Trigermilcyclopropane
2, 955; 3, 1206



1H-Silirene
1, 483–512; 2, 931; 3, 1214



1H-Trigermirene
2, 964



C₂Sn
1H-Stannirene
1, 483–512



PSeC
Selenaphosphorirane
1, 679–693



C(M)O
Metallaaoxirane
1, 749–793



M = metal

Si₃
Trisilacyclopropane
2, 955



C(X)(Y)(Z) 1,2,3-Trisheteraetane 2, 939–972		[1,3]Digermetane 2, 907–938	
1,2,3-Trisheteraetene 2, 939–972		[1,2]Digermete 2, 911, 926; 9, 932	
CGe ₂ O [1,2,4]Oxadigermetane 1, 782		C ₂ NO 4H-1,2-Oxazete 2, 689–711	
CGe ₂ S [1,2,4]Thiadigermetane 1, 782		[1,2]Oxazetidine 2, 689–711	
CGe ₂ Se [1,2,4]Selenadigermetane 1, 782		[1,3]Oxazetidine 2, 689–711	
CN ₂ P [1,3,2]Diazaphosphetidine 2, 939–972		C ₂ NS 2H-[1,2]Thiazete 2, 713–773	
C ₂ As ₂ [1,3]Diarsetane 2, 889; 9, 893		4H-1,2-Thiazete 2, 713–773	
C ₂ GeO [1,2]Oxagermetane 2, 924, 924–925		[1,3]Thiazetidine 2, 713–773, 759	
C ₂ GeS [1,2]Thiagermetane 2, 917		C ₂ NSe [1,2]Selenazetidine 2, 853–874	
C ₂ GeSe 2H-[1,2]Selenagermete 2, 853–874		C ₂ N ₂ 1,2-Diazete 2, 623–687	
C ₂ GeTe [1,2]Telluragermetane 2, 853–874		1,3-Diazete 2, 623–687	
C ₂ Ge ₂ [1,2]Digermetane 1, 489; 2, 917		[1,2]Diazete 2, 667	
		1,2-Dihydro-[1,2]diazete 2, 623–687	

1,2-Dihydro-[1,3]diazete 2, 623–687		[1,2]Dioxetane 2, 775–794	
1,4-Dihydro-[1,2]diazete 9, 440; 2, 623–687		1,2-Dioxete 2, 775–794	
3,4-Dihydro-[1,2]diazete 2, 623–687		C ₂ PSe [1,2]Selenaphosphetane 2, 853–874	
[1,2]Diazetidine 2, 623–687		[1,3]Selenaphosphetane 2, 853–874	
[1,3]Diazetidine 2, 623–687		C ₂ PSi 1,2-Dihydro-[1,2]phosphasilete 1, 701f; 2, 907–938; 2, 907–938	
C ₂ OS 1,2-Oxathiete 2, 795–809		[1,2]Phosphasiletane 2, 917	
1,3-Oxathietane 2, 795–809		C ₂ Ps [1,3]Diphosphetane 2, 876	
[1,2]Oxathietane 2, 795–809		C ₂ P ₂ 1,2-Diphosphete 1, 469; 2, 875–905	
C ₂ OSe 1,3-Oxaselenetane 2, 853–874		1,3-Diphosphete 2, 876; 9, 838, 839	
[1,2]Oxaselenetane 2, 853–874		1,2-Dihydro-[1,2]diphosphete 1, 469, 469	
C ₂ OSi 2H-1,2-Oxasilete 2, 907–938		C ₂ SSi 2H-1,2-Thiasilete 2, 907–938	
[1,3]Oxasiletane 2, 912–913, 924, 925		[1,3]Thiasiletane 2, 912–913	
C ₂ OTe [1,2]Oxatelluretane 2, 853–874		C ₂ Sb ₂ [1,2]Distibetane 2, 889	
C ₂ O ₂ 1,3-Dioxetane 2, 775–794; 9, 397		C ₂ SeTe 1,3-Selenatelluretane 2, 853–874	

1,2-Diselenete
2, 853–874Metallacyclobutenes
2, 555–621

M = W, Mo, Ti, Re, Os, Ir, Pt, Pd

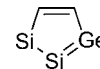
1,3-Diselenetane
2, 853–874Boretane
2, 555–621[1,2]Diselenetane
2, 853–874C₃(M)
Metallacyclobutenes
2, 555–621

M = W, Mo, Ti, Re, Os, Ir, Pt, Pd

1,2-Dihydro-1,2-Disilete
1, 508–509C₃As
Arsete
2, 479–5121,2-Disilete
2, 853–874; 2, 907–938Arsete
2, 555–621[1,3]Disiletane
2, 521C₃B
Borete
2, 555–621[1,3]Disiletane
2, 907–938, 910, 918, 918, 921, 922C₃B
Boretane
2, 555–621[1,2]Tellurastannetane
2, 853–874C₃Bi
Bismuthete
2, 479–512; 2, 555–6211,3-Dithietane
2, 811–852; 6, 469f; 6, 476fC₃Co
1-Cobaltacyclobuta-1,3-diene
2, 555–6211,2-Dithiete
2, 811–852C₃Fe
1-Ferracyclobuta-1,3-diene
2, 555–621[1,2]Dithietane
2, 811–852C₃Ge
Germetane
2, 513–5541,3-Ditellurethane
2, 853–874C₃Ir
1-Iridacyclobuta-1,3-diene
2, 555–6212,3-Dihydro-borete
2, 555–621C₃Mo
1-Molybdacyclobuta-1,3-diene
2, 555–621C₃N
Azete
2, 704–705; 2, 94, 96; 5, 224; 6, 173t

Azetidine 1, 38f, 88; 2, 239–319, 240; 9, 323; 2; 3, 36		Thietane 2, 389–428	
1,2-Dihydro-azete 2, 87		C ₃ Sb 1,2-Dihydro-stibete 2, 505	
2,3-Dihydro-azete 2, 87		C ₃ Se Selenetane 2, 463–477	
C ₃ Ni 1-Nickelacyclobuta-1,3-diene 2, 555–621		2H-Selenete 2, 463–477	
C ₃ O 2H-Oxete 2, 321–364		C ₃ Si Siletane 1, 494	
Oxetane 2, 321–364		C ₃ Ta 1-Tantalacyclobuta-1,3-diene 2, 555–621	
C ₃ P 1,2-Dihydro-phosphete 4, 1164; 14, 921–922		C ₃ Te Tellurethane 2, 463–477	
C ₃ Pd 1-Palladacyclobuta-1,3-diene 2, 555–621		2H-Tellurete 2, 463–477	
C ₃ Pt 1-Platinacyclobuta-1,3-diene 2, 555–621		C ₃ Ti Titanetane 2, 555–621	
C ₃ Re 1-Rhenacyclobuta-1,3-diene 2, 555–621		C ₃ W Tungstetane 2, 555–621	
C ₃ Rh 1-Rhodacyclobuta-1,3-diene 2, 555–621		C ₃ Zr Zirconetane 2, 555–621	
C ₃ S 2H-Thiete 2, 389–428		P ₂ Se ₂ 1,3,2,4-diselenadiphosphethane 6, 575	

As ₅ 1 <i>H</i> -Pentarsole 6, 604 <i>f</i>		4,5-Dihydro-[1,2,3,4]oxatriazole 6, 425–439	
CBN ₃ 2 <i>H</i> -[1,2,3,4]Triazaborole 6, 620		CN ₃ P 1 <i>H</i> -1,2,3,4-Triazaphosphole 6, 583–601	
CNOSeSi [1,3,5,2]Oxaselenazasilole 6, 667		5 <i>H</i> -1,2,4,3-Triazaphosphole 6, 583–601	
CNP ₂ Se 2,3-Dihydro-[1,4,2,3]selenazadiphosphole 6, 528 <i>t</i>		CN ₃ S 1,2,3,4-Thiatriazole 6, 441–484; 6, 486 <i>t</i> ; 6, 487 <i>t</i> ; 6, 494	
CN ₂ PS 1,3,4,2'-Thiadiazaphosphole 6, 583–601		2,5-Dihydro-[1,2,3,4]thiatriazole 1, 630, 631	
CN ₂ PSi [1,3,2,4]Diazaphosphasilolidine 6, 667		4,5-Dihydro-[1,2,3,4]thiatriazole 5, 507	
CN ₂ P ₂ 1 <i>H</i> -1,2,3,5-Diazadiphosphole 6, 583–601		1,2,3,5-Thiatriazole 6, 443 <i>t</i> ; 6, 485–498	
5 <i>H</i> -1,4,2,3-Diazadiphosphole 6, 583–601		CN ₃ Si 1 <i>H</i> -1,2,4,3-Triazasilole 6, 494	
CN ₂ Se ₂ 1,2,3,5-Diselenadiazole 6, 517–581		CN ₄ 1 <i>H</i> -Tetrazole 5, 444; 5, 598; 6, 257–423; 5, 215 <i>t</i> ; 6, 465 <i>f</i> ; 6, 478	
CN ₂ S ₂ 1λ ⁴ -[1,2,3,5]Dithiadiazole 6, 517–581		CP ₄ 1 <i>H</i> -Tetraphosphole 6, 583–601	
3λ ⁴ -[1,3,2,4]Dithiadiazole 6, 517–581		CN ₃ O 1,2,3,4-Oxatriazole 6, 425–439; 6, 478	
CN ₃ O 1,2,3,4-Oxatriazole 6, 425–439; 6, 478		[1,2,3,4]Tetraphospholane 2, 967	
1,2,3,5-Oxatriazole 6, 425–439		CS ₄ [1,2,3,4]Tetrathiolane 1, 668–669	

C₂(E₂)(M)1,3-dihetero-2-metalla-lane
6, 691–737M = Al, In, Ga, Ge, Sn, Pb
E = N, P, O S, Se, TeC₂BS₂1,3,2-Dithiaborole
6, 615–654C₂GeSi₂1H-[1,2,3]Disilagermole
6, 664, 669C₂AsN₂1H-[1,2,4]Diazarsole
6, 604f; 6, 605t; 6, 607fC₂NOP1,3,2-Oxazaphosphole
6, 583–601

2H-1,2,3-Diazarsole

6, 604f; 6, 605t

[1,3,2]Oxazaphospholidine
1, 584

1,3,2-Diazarsole

6, 604f; 6, 605t; 6, 605t; 6, 607f;
6, 608; 6, 608–6091,4,2-Oxazaphosphole
6, 583–601

1,4,2-Diazarsole

6, 604f; 6, 605t; 6, 606–607

C₂NOS3H-1,2,4-Oxathiazole
6, 61–104C₂AsP₂1H-1,2,4-Diphospharsole
6, 604f; 6, 609f5H-[1,2,4]Oxathiazole
6, 61–104

1H-[1,2,4]Diphospharsole

6, 604f; 6, 609f

[1,2,4]Oxathiazolidine
6, 61–104C₂BNO[1,3,2]Oxazaborolidine
6, 615–654[1,3,4]Oxathiazole
6, 105–144[1,3,4]Oxathiazolidine
6, 105–144C₂BN₂[1,3,2]Diazaborolidine
6, 615–6541,4,2-Oxathiazole
6, 105–1442,3-Dihydro-1H-[1,3,2]diazaborole
6, 615–654[1,4,2]Oxathiazole
6, 105–144C₂BO₂1,3,2-Dioxaborole
6, 615–654[1,4,2]Oxathiazolidine
6, 105–144

[1,3,2]Dioxaborolane

1, 354t; 6, 615–654

C₂NOSe1,2,5-Oxaselenazole
6, 517–581



3H-[1,2,4]Dioxazole
6, 61–104



1H-1,2,4-Azadiphosphole
6, 583–601



[1,2,4]Dioxazolidine
6, 61–104



2H-[1,3,4]Azadiphosphole
1, 700



[1,3,2]Dioxazolidine
6, 37–59



C₂NSSe
3H-1,2,4-Thiaselenazole
6, 517–581



[1,3,2]Dioxazole
6, 37–59



1,2,3-Thiaselenazole
6, 517–581



[1,4,2]Dioxazolidine
6, 105–144



1,2,5-Thiaselenazole
6, 517–581



[1,4,2]Dioxazole
6, 105–144



C₂NSSi
[1,3,2]Thiazasilolidine
6, 665–666



2,5-Dihydro-[1,4,2]thiazaphosphole
6, 583–601



C₂NSe₂
1,2,3-Diselenazole
6, 517–581



1,2,4-Thiazaphosphole
6, 583–601



1,3,2-Thiazaphosphole
6, 583–601



C₂NS₂
3H-[1,2,3]Dithiazole
6, 1–36



1,3,5-Thiazaphosphole
6, 583–601



3H-1,2,4-Dithiazole
6, 461f; 6, 463f; 6, 466f



2,5-Dihydro-[1,4,2]selenazaphosphole
6, 583–601



5H-[1,2,3]Dithiazole
6, 1–36



1,3,5-Selenazaphosphole
6, 583–601



5H-[1,2,4]Oxathiazole
6, 61–104



[1,2,3]Dithiazolidine
6, 1–36



1,2,3-Selenapalladazole
6, 517–581



[1,3,2]Dithiazole
6, 37–59



[1,3,2]Dithiazolidine
6, 37–59



1H-1,2,3-Azadiphosphole
6, 583–601



[1,4,2]Dithiazolidine
6, 105–144



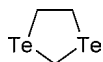
[1,4,2]Dithiazole 6, 105–144		2H-[1,2,3]Diazaphosphole 6, 583–601	
[1,2,4]Oxathiazolidine 6, 61–104		1H-1,2,4-Diazaphosphole 6, 583–601	
1λ ⁴ -[1,2,3]Dithiazole 5, 554; 8, 426; 6, 1–36		1H-1,3,2-Diazaphosphole 6, 583–601	
		2H-1,4,2-Diazaphosphole 6, 583–601	
C ₂ N ₂ (M) 1,3,2-Diazametallalidine 6, 691–737			
	M= Al, In, Ga, Ge, Sn, Pb	C ₂ N ₂ S [1,2,4]Thiadiazole 1, 545; 5, 467–486	
C ₂ N ₂ O 2,3-Dihydro-[1,2,4]oxadiazole 5, 243–314		4,5-Dihydro-[1,2,4]thiadiazole 5, 467–486	
4,5-Dihydro-[1,2,4]oxadiazole 5, 259		2,5-Dihydro-[1,2,4]thiadiazole 5, 467–486	
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1,2,3-Oxadiazole 5, 591; 5, 211–241		4,5-Dihydro-[1,2,4]thiadiazole 5, 487–513	
1,2,4-Oxadiazole 5, 243–314; 5, 197		2,5-Dihydro-[1,2,4]thiadiazole 5, 487–513	
[1,2,4]Oxadiazolidine 5, 243–314		2,3-Dihydro-[1,2,4]thiadiazole 5, 487–513	
1,3,4-Oxadiazole 5, 253–254; 5, 397–466; 5, 598, 6, 468f		[1,2,4]Thiadiazolidine 5, 487–513	
		1,2,5-Thiadiazole 5, 515–565; 6, 495f	
C ₂ N ₂ P 1H-1,2,3-Diazaphosphole 6, 583–601		2,3-Dihydro-[1,2,5]thiadiazole 5, 515–565	

2,5-Dihydro-[1,2,5]thiadiazole 5, 515–565		C ₂ N ₃ 1H-1,2,3-Triazole 5, 554; 5, 1–158; 6, 442	
[1,2,5]Thiadiazolidine 5, 515–565		2H-[1,2,3]Triazole 5, 1–158	
1,3,4-Thiadiazole 5, 567–605; 5, 215 <i>t</i>		1H-1,2,4-Triazole 1, 548; 5, 253, 253–254; 5, 159–209; 5, 215 <i>t</i> ; 6, 165 <i>t</i> ; 6, 487	
[1,3,4]Thiadiazolidine 5, 567–605		2H-[1,2,3]Triazole 5, 252	
2,3-Dihydro-[1,3,4]thiadiazole 5, 567–605		C ₂ OPS [1,3,2]Oxathiaphospholane 1, 320	
2,5-Dihydro-[1,3,4]thiadiazole 5, 567–605			
C ₂ N ₂ Sb 1,4,2-Diazaarsolide anions 6, 604 <i>f</i> ; 6, 605 <i>t</i> ; 6, 608 <i>f</i>		C ₂ OPtSe 1,3,2-Oxaselenaplatinole	
C ₂ N ₂ Se 1,2,3-Selenadiazole 1, 436, 440–441; 4, 1149; 6, 517–581		C ₂ OS ₂ 1,2,3-Oxadithiole 6, 145–190	
1,2,4-Selenediazole 6, 517–581		1,2,5-Oxadithiole 6, 145–190	
1,2,5-Selenadiazole 6, 517–581		C ₂ O ₂ (M) 1,3,2-Dioxametallalidine 6, 691–737	
1,3,4-Selenediazole 6, 517–581			M = Al, In, Ga, Ge, Sn, Pb
C ₂ N ₂ Si 2,3-Dihydro-1H-[1,3,2]diazasilole 6, 655–690		C ₂ O ₂ S 1,2,3-Dioxathiole 6, 145–190	
[1,3,2]Diazasilolidine 6, 655–690		1,3,2-Dioxathiole 6, 145–190	
[1,4,2]Diazasilolidine 6, 668		C ₂ O ₂ Si 1,3,2-Dioxasilole 6, 655–690	
C ₂ N ₂ Te 1,2,5-Telluradiazole 6, 517–581		C ₂ O ₃ 1,2,3-Trioxole 6, 145–190	

1,2,4-Trioxolane 6, 149–150; 6, 191–256		C ₂ Se ₂ (M) 1,3,2-Diselenametallalidine 6, 691–737		M = Al, In, Ga, Ge, Sn, Pb
C ₂ PSe ₂ 1,2,3-Diselenaphosphole 6, 517–581 , 528 <i>t</i>		C ₂ Se ₂ Pd 1,3,2-Diselenapalladole 6, 517–581		
2,5-Dihydro-[1,2,5]selenadiphosphole 6, 528 <i>t</i>		C ₂ Se ₂ Sn 1,3,2-Diselenastannole 6, 517–581		
C ₂ P ₂ (M) 1,3,2-Diphospha- metallalidine 6, 691–737		C ₂ Se ₂ Ti 1,3,2-Diselenatitanole 6, 517–581		M = Al, In, Ga, Ge, Sn, Pb
C ₂ P ₂ Sb 1,4,2-Diphosphostibolide anions 6, 604 <i>f</i> ; 6, 610 <i>f</i> ; 6, 610 <i>f</i> ; 6, 611 <i>f</i>		C ₂ Se ₃ 1,2,3-Triselenole 6, 517–581		
C ₂ P ₂ Se 2,3-Dihydro-[1,2,3]selenadiphosphole 6, 529 <i>t</i>		C ₂ Si ₃ [1,2,4]Trisilolane 6, 666		
1,2,4-Selenadiphosphole 6, 517–581 ; 6, 610 <i>f</i>		C ₂ S ₂ (M) 1,3,2-Dithiametallalidine 6, 691–737		M = Al, In, Ga, Ge, Sn, Pb
C ₂ P ₂ Si 2,3-Dihydro-1H-[1,2,3]diphosphasilole 1, 701 <i>f</i>		C ₂ S ₃ 1,2,4-Trithiolane 1, 668–669; 6, 469 <i>f</i>		
2,3-Dihydro-1H-[1,3,2]diphosphasilole 6, 671		1,2,3-Trithiole 6, 145–190		
1,3,2-Diphosphasilolane 6, 671		C ₂ Te ₂ (M) 1,3,2-Ditellurometallalidine 6, 691–737		M = Al, In, Ga, Ge, Sn, Pb
C ₂ P ₂ Te 1,2,4-Telluradiphosphole 6, 517–581 ; 6, 610 <i>f</i>		C ₃ (E)Se 1,3-oxaselenolane 4, 1119–1153		
C ₂ P ₃ 1H-1,2,3-Triphosphole 6, 583–601		C ₃ STe [1,3]Thiatellurolane 4, 1119–1153		
1H-1,2,4-Triphosphole 1, 700 <i>f</i> ; 6, 583–601		C ₃ SeTe 1,3-Selenatellurolane 4, 1119–1153		



1,3-Ditellurolane
4, 1119–1153



[1,3]Stannaborolane
4, 1225–1241



[1,3]Thiarsole
4, 1174



2,3-Dihydro-1H-[1,3]stannaborole
4, 1225–1241



1H-1,2-Azaborole
4, 1189–1224



1H-1,2-Diborole
4, 1189–1224



[1,2]Azaborolidine
4, 1189–1224



1H-1,3-Diborole
4, 1225–1241



[1,3]Azaborolidine
4, 1225–1241



[1,2]Diborolane
4, 1208, 1210, 1211



[1,3]Diborolane
4, 1225–1241



1,2-Oxaborole
4, 1189–1224



2,3-Dihydro-1H-[1,3]diborole
4, 1233–1234



1H-1,2-Phosphaborole
4, 1189–1224



[1,3]Azagermolidine
4, 1278–1279



2,3-Dihydro-1,3-thiaborole
4, 1229–1230



Isoxazole
5, 554; 6, 96–97, 99; 7, 279f; 4, 365–485



1,2-Thiaborole
4, 1189–1224



Isoxazolidine
2, 419–420; 4, 365–485



[1,3]Thiaborolane
4, 1225–1241



Oxazole
1,12; 4, 487–543; 6, 154–160;
6, 155f; 7, 280



[1,2]Silaborolane
4, 1208, 1210



Oxazolidine
1, 18, 26f, 38f; 4, 487–543; 5, 202



2,3-Dihydro-isoxazole
4, 365–485



[1,3]Silaborolane
4, 1225–1241; 4, 1295



2,5-Dihydro-isoxazole
4, 365–485



4,5-Dihydro-isoxazole 4, 365–485		C ₃ NSe Isoselenazole 4, 755–790	
2,3-Dihydro-oxazole 4, 487–543		Selenazole 4, 791–821; 4, 1123–1124	
2,5-Dihydro-oxazole 1, 85; 4, 487–543		Selenazolidine 4, 791–821	
4,5-Dihydro-oxazole 4, 487–543		4,5-Dihydro-selenazole 4, 791–821	
C ₃ NP 1H-1,2-Azaphosphole 4, 1155–1167		C ₃ NSi [1,3]Azasilolidine 4, 1281, 1282, 1297	
1H-1,3-Azaphosphole 4, 1169–1188		C ₃ NTe Isotellurazole 4, 1091–1117	
3H-[1,3]Azaphosphole 4, 1169–1188		Isotellurazolidine 4, 1091–1117	
C ₃ NS Isothiazolidine 4, 545–633		Tellurazole 4, 1119–1153	
Isothiazole 2, 764, 765; 4, 545–633; 6, 457f; 6, 487		2,3-Dihydro-isotellurazole 4, 1091–1117	
Thiazole 1, 333; 5, 215f; 6, 442; 6, 459f; 8, 577–578, 578; 8, 633f; 8, 662, 663, 664; 4, 635–754		2,5-Dihydro-isotellurazole 4, 1091–1117	
Thiazolidine 1, 36f; 8, 663, 664; 4, 635–754; 5, 202		4,5-Dihydro-isotellurazole 4, 1091–1117	
2,3-Dihydro-thiazole 4, 635–754		C ₃ N ₂ 2,3-Dihydro-1H-imidazole 4, 143–364	
2,5-Dihydro-isothiazole 004, 545–633		2,5-Dihydro-1H-imidazole 4, 143–364	
2,5-Dihydro-thiazole 4, 635–754		4,5-Dihydro-1H-imidazole 4, 143–364	
4,5-Dihydro-isothiazole 4, 545–633		2,3-Dihydro-1H-pyrazole 4, 1–141	

4,5-Dihydro-1H-pyrazole 4, 1-141; 8, 638-639		5H-[1,2]Oxathiole 4, 823-839	
4,5-Dihydro-3H-pyrazole 4, 1-141		C ₃ OSe [1,2]Oxaselenolane 4, 1091-1117, 1101, 1103	
1H-Imidazole 1, 38f; 4, 143-364; 6, 173f; 6, 473; 6, 474f; 6, 492f		3H-1,2-Oxaselenole 4, 1091-1117	
2H-Imidazole 4, 143-364		1,3-Oxaselenole 4, 1119-1153	
4H-Imidazole 4, 143-364		C ₃ OSi [1,2]Oxasilolane 1, 492, 493	
Imidazolidine 1, 39f; 1, 548; 4, 143-364		[1,3]Oxasilolane 4, 1272	
1H-Pyrazole 4, 1-141; 5, 211-241; 5, 569; 5, 594; 6, 485-498; 6, 561f; 6, 562f; 6, 571f; 7, 259; 8, 638-639		C ₃ OTe [1,2]Oxatellurolane 4, 1091-1117, 1103	
3H-Pyrazole 4, 1-141		1,3-Oxatellurolane 4, 1119-1153	
4H-Pyrazole 4, 1-141		1,3-Oxatellurole 4, 1119-1153	
Pyrazolidine 4, 1-141		3H-1,2-Oxatellurole 4, 1091-1117	
C ₃ OP 1,2-Oxaphosphole 4, 1155-1167		C ₃ O ₂ [1,2]Dioxolane 4, 823-839	
1,3-Oxaphosphole 4, 1169-1188		[1,3]Dioxolane 4, 841-891	
C ₃ OS [1,3]Oxathiolane 4, 841-891		1,3-Dioxole 4, 841-891; 6, 179f	
[1,2]Oxathiolane 4, 823-839		Dioxolium 4, 841-891	
[1,3]Oxathiole 4, 868		C ₃ PS 1,2-Thiaphosphole 4, 1155-1167	

C₃P₂1,3-Diphosphole
4, 1155–11671,3-Dithiole
4, 955–10901H-1,2-Diphosphole
4, 1155–11673H-1,2-Dithiole
2, 8432,3-Dihydro-1H-[1,3]diphosphole
4, 1155–11671λ⁴-[1,3]Dithiole
4, 955–1090C₃SSe1,3-Thiaselenolane
4, 1119–1153C₃Te₂1,3-Ditellurolane
4, 1119–11531,3-Thiaselenole
4, 1119–11531,3-Ditellurole
4, 1119–1153C₃SSi[1,3]Thiasilolane
4, 12803H-1,2-Ditellurole
4, 1091–1117C₃SeTe1,3-Selenatellurolane
4, 1119–1153C₄Si1H-Silole
3, 12071,3-Selenatellurole
4, 1119–1153C₄Ge1H-Germole
3, 12073H-1,2-Selenatellurole
4, 1091–1117C₄Sn1H-Stannole
3, 1207C₄Pb1H-Plumbole
3, 1207C₃Se₂1,3-Diselenolane
4, 1119–11531H-metallole
3, 1243–13041,3-Diselenole
4, 1119–1153; 6, 547fM = Mg, Al, Ti, Zr, Gf, Fe, Ru,
Os, Co, Rh, Ir, Ni, Pd, Pt3H-1,2-Diselenole
4, 1091–1117C₄AlAlumolane
3, 1261C₃S₂[1,2]Dithiolane
2, 419–420C₄As1H-Arsole
3, 1149–1179[1,3]Dithiolane
4, 955–1090

C₄B

Borolane

3, 1225–1241



1H-Borole

3, 1225–1241



2,3-Dihydro-1H-borole

3, 1225–1241



2,5-Dihydro-1H-borole

3, 1225–1241; 4, 1217

C₄Bi

1H-Bismole

3, 1149–1179

C₄Ge

1H-Germole

3, 1181–1223



1H-Germole

3, 1207

C₄N

2,5-Dihydro-oxazole

1, 86, 86; 3, 321



2,3-Dihydro-1H-pyrrole

1, 28^f

2,5-Dihydro-1H-pyrrole

3, 321, 322, 334



Pyrrolidine

1, 34^f

1H-Pyrrole

3, 1–43; 3, 269–351; 3, 353–388,

3, 45–268; 6, 173^t;6, 442; 6, 475^f; 6, 487; 6, 747^fC₄O

2,3-Dihydro-furan

3, 389–406; 3, 462;

3, 497–569



2,5-Dihydro-furan

1, 77^f; 3, 418, 420, 462; 3, 497–569;

3, 571–623



Furan

3, 389–406; 3, 407–496; 3, 497–569;

3, 571–623; 6, 160^f; 6, 168^f; 6, 155^t;6, 161^t; 6, 173^t; 6, 458^f; 6, 530; 6, 577^f

Furane

1, 180, 181; 3, 389–406; 3, 468;

3, 497–569; 3, 571–623

C₄P

2,3-Dihydro-1H-phosphole

3, 1029–1147



2,5-Dihydro-1H-phosphole

1, 459, 468; 3, 1029–1147; 7, 1031



Phospholane

3, 1029–1147



1H-Phosphole

3, 1029–1147

C₄Pb

1H-Plumbole

3, 1207

C₄S

2,3-Dihydro-thiophene

2, 421^t; 3, 625–739; 3, 741–841;

3, 931–974; 3, 843–930



2,5-Dihydro-thiophene

1, 422; 3, 625–739;

3, 741–841; 3, 843–930



Tetrahydro-thiophene

3, 625–739; 3, 793; 3, 843–930



Thiophene

3, 625–739; 3, 741–841; 3, 931–974;

3, 843–930; 5, 215^t; 6, 161^t; 6, 442;6, 443^t; 6, 487; 6, 487^t; 6, 546; 6, 562^fC₄Sb

1H-Stibole

3, 1149–1179

C₄Se

2,3-Dihydro-selenophene

3, 994



Selenophene

3, 975–1006; 6, 540f; 6, 542;
6, 540f; 6, 543f1*H*-Silole

3, 1207



Tetrahydro-selenophene

3, 994, 994

C₄Sn1*H*-Stannole

3, 1181–1223, 1191, 1193

C₄Si2,3-Dihydro-1*H*-silole
3, 1181–1223C₄Sn1*H*-Stannole

3, 1207

2,5-Dihydro-1*H*-silole

3, 1181–1223, 1195

C₄Te

Tellurophene

3, 1007–1028



Silolane

3, 1181–1223

1*H*-Silole

1, 493–494; 3, 1181–1223

N₅1*H*-Pentazole

6, 739–757



CN ₅ Pentazine 9, 715–735		2H-1,2,4,6-Thiatriazine 9, 737–789	
CS ₅ Pentathiane 9, 761		C ₂ N ₄ 1,2-Dihydro-[1,2,4,5]tetrazine 9, 641–714	
C ₂ AsNS ₂ 4H-[1,3,5,2]Dithiazarsinine 9, 894		1,4-Dihydro-[1,2,4,5]tetrazine 9, 641–714	
C ₂ NOSP [1,2,3,6]Oxathiazaphosphinine 9, 523–567		1,6-Dihydro-[1,2,4,5]tetrazine 9, 641–714	
C ₂ N ₂ OS 1,2,3,5-Oxathiadiazine 9, 737–789		1,2,3,4-Tetrahydro-[1,2,4,5]tetrazine 9, 641–714	
[1,2,4,5]Oxathiadiazinane 9, 760		1,2,3,4-Tetrazine 9, 715–735	
1,4,3,5-Oxathiadiazine 9, 737–789		1,2,3,5-Tetrazine 9, 715–735	
C ₂ N ₂ O ₂ 1,4,2,5-Dioxadiazine 9, 737–789		1,2,4,5-Tetrazine 6, 494; 9, 641–714	
[1,4,2,5]Dioxadiazine 9, 739–740		[1,2,4,5]Tetrazinane 9, 641–714	
C ₂ N ₂ S ₂ 1,2,4,5-Dithiadiazine 9, 737–789		C ₂ O ₂ S ₂ [1,3,2,4]Dioxadithiane 2, 804	
1,4,2,5-Dithiadiazine 6, 476f; 8, 892		C ₂ O ₄ 1,2,4,5-Tetroxane 9, 737–789	
C ₂ N ₃ O 5,6-Dihydro-4H-[1,2,3,4]oxatriazine 9, 739		C ₂ P ₄ 1,3,5-Triphospha-bicyclo[2.2.2]octa-2,5-diene 9, 841	
C ₂ N ₃ S 2H-1,2,4,5-Thiatriazine 9, 768		C ₂ S ₄ 1,2,4,5-Tetrathiane 9, 737–789	

C₃AsN₂
[1,3,2]Diazarsinane
9, 880, 891



1,2,6-Oxathiazine
9, 523–567



C₃AsO₂
[1,3,2]Dioxarsinane
9, 885



1,4,2-Oxathiazine
9, 523–567



C₃AsP₂
[1,3,2]Diphospharsinane
9, 893



1,4,3-Oxathiazine
9, 523–567



C₃As₃
[1,2,3]Triarsinine
9, 893



2H,6H-1,5,2-Oxathiazine
9, 523–567



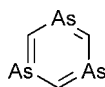
[1,2,4]Triarsinine
9, 893



2H,4H-1,3,4-Oxathiazine
9, 523–567



[1,3,5]Triarsinine
9, 893



4H-1,3,2-Oxathiazine
9, 523–567



C₃BN₂
1,3,2-Diazaborine
9, 961–1008



4H-1,3,5-Oxathiazine
9, 523–567



C₃BO₂
4H-1,3,2-Dioxaborin
9, 961–1008



6H-[1,3,5]Oxathiazine
5, 507; 6, 90



C₃B₃
[1,3,5]Triborinane
9, 975



C₃NOSe
6H-[1,3,5]Oxaselenazine
9, 827



C₃NOP
[1,3,2]Oxazaphosphinane
9, 858



C₃NO₂
1,4,2-Dioxazine
9, 523–567



C₃NOS
[1,2,3]Oxathiazinane
9, 523–567



2H-1,5,2-Dioxazine
9, 523–567



[1,2,3]Oxathiazinane
1, 143–144



4H-1,3,2-Dioxazine
9, 523–567



1,2,3-Oxathiazine
9, 523–567



4H-1,3,5-Dioxazine
9, 523–567



1,2,4-Oxathiazine
9, 523–567



C₃NP₂
[1,2,4]Azadiphosphinine
2, 883



[1,2,5]Azadiphosphinine 9, 839		[1,2,4]Oxadiazinane 9, 301–343	
[1,3,4]Azadiphosphinine 9, 839		[1,2,5]Oxadiazinane 9, 301–343	
C ₃ NS ₂ 1,2,3-Dithiazine 9, 523–567		[1,3,4]Oxadiazinane 9, 401–455	
1,3,4-Dithiazine 9, 523–567		[1,3,5]Oxadiazinane 9, 457–521	
[1,3,5]Dithiazinane 9, 523–567		2H-1,2,4-Oxadiazine 9, 301–343	
1,4,2-Dithiazine 9, 523–567		2H-1,2,6-Oxadiazine 9, 355–400	
[1,4,2]Dithiazinane 9, 523–567		2H-1,3,4-Oxadiazine 9, 401–455	
4H-1,3,2-Dithiazine 9, 523–567		2H-1,3,5-Oxadiazine 9, 457–521	
4H-1,3,5-Dithiazine 9, 523–567		4H-[1,3,4]Oxadiazine 9, 401–455	
C ₃ NSe ₂ [1,4,2]Diselenazine 2, 868		4H-[1,3,5]Oxadiazine 9, 457–521	
[1,4,2]Diselenazine 9, 829		6H-[1,2,5]Oxadiazine 9, 345–354	
C ₃ N ₂ O 3,5-Diaza-pyrylium 9, 457–521		6H-[1,3,4]Oxadiazine 9, 401–455	
3,6-Dihydro-2H-[1,3,5]oxadiazine 9, 457–521		6H-[1,2,5]Oxadiazine 9, 347	
5,6-Dihydro-4H-[1,3,4]oxadiazine 9, 401–455		C ₃ N ₂ P [1,2,3]Diazaphosphinane 9, 848	

[1,3,2]Diazaphosphinine 9, 837		2H-1,2,6-Thiadiazine 5, 555–556; 9, 355–400	
[1,3,2]Diazaphosphinane 9, 848		4H-[1,2,6]Thiadiazine 9, 355–400	
[1,3,2]Diazaphosphinine 7, 1031, 1013		1 λ^4 -[1,2,6]Thiadiazine 9, 355–400	
[1,3,5]Diazaphosphinane 9, 851		[1,3,4]Thiadiazinane 9, 401–455	
[1,4,2]Diazaphosphinane 9, 851		2H-1,3,4-Thiadiazine 9, 401–455	
[1,5,2]Diazaphosphinane 9, 850		6H-[1,3,4]Thiadiazine 9, 401–455	
1,2-Dihydro-[1,3,2]diazaphosphinine 9, 843		1 λ^4 -[1,3,5]Thiadiazine 9, 472	
C ₃ N ₂ S 2,3-Dihydro-1 λ^4 -[1,2,6]thiadiazine 9, 355–400		4H-[1,3,4]Thiadiazine 9, 401–455	
3,6-Dihydro-2H-[1,2,6]thiadiazine 9, 355–400		2H-1,3,5-Thiadiazine 9, 457–521	
3,6-Dihydro-2H-[1,3,5]thiadiazine 9, 457–521		[1,3,5]Thiadiazinane 9, 457–521	
5,6-Dihydro-4H-[1,3,4]thiadiazine 9, 401–455		4H-[1,3,5]Thiadiazine 9, 457–521	
2H-1,2,3-Thiadiazine 9, 291–299		C ₃ N ₂ Se 2H-[1,3,5]Selenadiazine 6, 561f; 9, 829	
2H-1,2,4-Thiadiazine 9, 301–343		C ₃ N ₃ 1,2-Dihydro-[1,2,4]triazine 9, 95–196	
2H-1,2,5-Thiadiazine 9, 345–354		2,5-Dihydro-[1,2,3]triazine 9, 1–93	

1,2,3,4-Tetrahydro-[1,2,3]triazine 9, 1–93		C ₃ O ₃ [1,2,4]Trioxane 9, 569–640	
1,2,3,6-Tetrahydro-[1,2,4]triazine 9, 95–196		1,3,5-Trioxane 9, 569–640	
1,2,5,6-Tetrahydro-[1,2,3]triazine 9, 1–93		[1,3,5]-Triphosphinine 4, 1182–1183, 1183–1184; 9, 839, 840	
1,2,5,6-Tetrahydro-[1,2,4]triazine 9, 95–196		C ₃ Se ₃ 1,3,5-Triselenane 9, 820	
1,2,3-Triazine 9, 1–93		C ₃ S ₂ Sn [1,3,2]Dithiastanninane 9, 921–922	
1,2,4-Triazine 7, 298; 9, 95–196		C ₃ S ₃ [1,2,3]Trithiane 9, 569–640	
[1,2,4]Triazinane 9, 95–196		[1,2,4]Trithiane 9, 569–640	
1,3,5-Triazine 9, 197–290; 9, 457–521		[1,3,5]Trithiane 8, 863; 9, 569–640	
[1,3,5]Triazinane 9, 197–290		4H-[1,2,3]Trithiine 9, 569–640	
C ₃ OS ₂ [1,3,5]Oxadithiane 9, 569–640		[1,2,4]Trithiine 9, 569–640	
C ₃ O ₂ P [1,3,2]Dioxaphosphinane 9, 862		C ₄ AsN [1,3]Azarsinine 7, 1045–1046	
[1,3,5]Dioxaphosphinane 9, 863		C ₄ As ₂ 1,2-Diarsenin 9, 885	
C ₃ O ₂ S [1,3,2]Dioxathiane 9, 569–640		1,3-Diarsenin 9, 885	
4H-1,3,2-Dioxathiin 6, 160f		1,4-Diarsenin 9, 885	

1,2,3,6-Tetrahydro-[1,2]diarsinine 9, 883		Morpholine 8, 461–511	
C ₄ BN [1,2]Azaborinane 9, 975		[1,2]Oxazinane 8, 333–371	
C ₄ BN 1,2-Dihydro-[1,2]azaborinine 9, 972, 972, 973		[1,3]Oxazinane 2, 336; 8, 373–459	
C ₄ BO [1,2]Oxaborinane 9, 975		2H-1,2-Oxazine 8, 333–371	
C ₄ BP 1,4-Dihydro-[1,4]phosphaborinine 9, 973		2H-1,3-Oxazine 8, 373–459	
C ₄ B ₂ 1,4-Dihydro-[1,4]diborinine 4, 1239; 9, 973–974		2H-1,4-Oxazine 5, 220f; 5, 234–235; 5, 235; 6, 155t; 6, 161t; 6, 165t	
C ₄ Ge ₂ 1,4-Dihydro-[1,4]digermine 3, 1206		4H-[1,3]Oxazine 8, 389	
C ₄ NO 3,6-Dihydro-2H-[1,2]oxazine 8, 333–371		4H-[1,4]Oxazine 8, 461–511	
4-Aza-pyrylium 8, 461–511		4-Aza-pyrylium 8, 461–511	
5,6-Dihydro-4H-[1,2]oxazine 8, 339–340		C ₄ NP [1,2]Azaphosphinine 9, 837	
5,6-Dihydro-2H-[1,3]oxazine 8, 373–459		[1,2]Azaphosphinane 9, 843	
5,6-Dihydro-4H-[1,3]oxazine 8, 386–387, 393		[1,3]Azaphosphinane 9, 846	
3,6-Dihydro-2H-[1,4]oxazine 8, 461–511		[1,4]Azaphosphinane 9, 846	
C ₄ NO 3,4-Dihydro-2H-[1,4]oxazine 8, 461–511		1,4-Azaphosphorin 9, 837	

C₄NS

3,4-Dihydro-2H-[1,2]thiazine
8, 513–566



1 λ^4 -[1,2]Thiazine
8, 513–566



3,4-Dihydro-2H-[1,3]thiazine
8, 567–605



2H-1,3-Thiazine
8, 567–605



3,4-Dihydro-2H-[1,4]thiazine
8, 607–675



6H-[1,3]Thiazine
8, 513–566



3,6-Dihydro-2H-[1,2]thiazine
8, 513–566



4H-[1,3]Thiazine
8, 567–605



3,6-Dihydro-2H-[1,3]thiazine
8, 567–605



2H-1,4-Thiazine
8, 607–675



3,6-Dihydro-2H-[1,4]thiazine
8, 607–675



1 λ^4 -[1,4]Thiazine
8, 607–675



5,6-Dihydro-4H-[1,2]thiazine
8, 513–566



4H-[1,4]Thiazine
8, 607–675



5,6-Dihydro-2H-[1,2]thiazine
8, 513–566



Thiomorpholine
8, 607–675



5,6-Dihydro-4H-[1,3]thiazine
8, 567–605



C₄NSe
5,6-Dihydro-4H-[1,3]selenazine
4, 813



[1,2]Thiazinane
8, 513–566



[1,2]Selenazinane
9, 820



[1,3]Thiazinane
8, 567–605



4H-[1,3]Selenazine
9, 820



2H-1,2-Thiazine
8, 513–566



5,6-Dihydro-4H-[1,3]selenazine
9, 820



4H-[1,2]Thiazine
8, 513–566



Selenomorpholine
9, 826



6H-[1,2]Thiazine
8, 513–566



C₄N₂
Pyrazine
5, 590; 6, 566f; 8, 273–331



1,2-Dihydro-pyrazine
8, 273–331



Piperazine
7, 79f



1,4-Dihydro-pyrazine
8, 297–299, 312



1,2,3,4-Tetrahydro-pyrimidine
8, 117–272; 8, 179



2,3-Dihydro-pyrazine
8, 297



C₄OP
[1,2]Oxaphosphinane
9, 853



1,4-Dihydro-pyridazine
5, 435–436



C₄OS
[1,2]Oxathiane
8, 677–738



1,6-Dihydro-pyridazine
8, 3



[1,3]Oxathiane
8, 739–856



1,2-Dihydro-pyrimidine
8, 117–272; 8, 179



[1,4]Oxathiane
8, 873



1,4-Dihydro-pyrimidine
8, 179



[1,4]Oxathiane
1, 650



1,6-Dihydro-pyrimidine
8, 179



1,2-Oxathiin
8, 677–738



2,5-Dihydro-pyrimidine
8, 179



1,4-Oxathiin
8, 857–905



3,4-Dihydro-quinazoline
8, 117–272; 8, 179



4H-1,3-Oxathiin
8, 739–856



Hexahydro-pyridazine
8, 37



3,4-Dihydro-[1,2]oxathiine
8, 677–738



Pyridazine
8, 1–116



3,6-Dihydro-[1,2]oxathiine
8, 677–738



Pyrimidine
1, 91; 6, 155f; 6, 545f; 8, 117–272



4H-[1,3]Oxathiine
8, 739–856

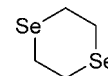
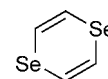


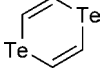
Hexahydro-pyrimidine
8, 117–272; 8, 179



6H-[1,3]Oxathiine
8, 739–856



[1,2]Oxaselenine
9, 804[1,4]Diphosphinane
9, 846[1,2]Dioxane
8, 677–738[1,3]Diphosphinine
9, 837[1,3]Dioxane
8, 739–856C₄SSe
2,3-Dihydro-[1,4]thiaselenine
9, 815[1,4]Dioxane
8, 871[1,2]Thiaselenine
9, 8062,3-Dihydro-[1,4]dioxine
8, 871, 872C₄SSi
[1,3]Thiasilinane
9, 9193,4-Dihydro-[1,2]dioxine
8, 677–738C₄Se₂
2,3-Dihydro-[1,4]diselenine
9, 8153,6-Dihydro-[1,2]dioxine
8, 677–7383,4-Dihydro-[1,2]diselenine
9, 8101,2-Dioxin
8, 677–738[1,3]Diselenane
9, 791–8341,4-Dioxin
8, 857–905[1,4]Diselenane
9, 8024H-1,3-Dioxin
6, 155f1,4-Diselenin
2, 868; 9, 795[1,2]Dioxine
8, 677–738[1,2]Diselenine
9, 806[1,2]Thiaphosphinane
9, 857C₄Si₂
1,2-Dihydro-[1,2]disiline
9, 913–960[1,2]Diphosphinane
9, 8451,4-Dihydro-[1,4]disiline
9, 913–960[1,3]Diphosphinane
9, 8461,2-Disilin
9, 913–960

1,3-Disilin 9, 913–960		[1,4]Ditellurine 9, 817	
1,4-Disilin 9, 913–960		C ₅ B Borinine 7, 1039–1048, 7, 1049–1066	
[1,2]Disilinane 9, 918		Germine 7, 1039–1048	
[1,3]Disilinane 9, 920–921		Siline 7, 1039–1048	
3,4,5,6-Tetrahydro-[1,2]disilene 9, 920		Stannine 7, 1039–1048	
C ₄ S ₂ 3,4-Dihydro-[1,2]dithiine 8, 1–116		Plumbine 7, 1039–1048	
3,6-Dihydro-[1,2]dithiine 1, 320; 2, 831–834; 8, 1–116		1,2-Dihydro-borinine 7, 1051, 1051–1052	
[1,2]Dithiane 8, 1–116		C ₅ As Arsenin 7, 1039–1048	
[1,3]Dithiane 9, 628		C ₅ Bi Bismin 7, 1039–1048	
[1,3]Dithiane 8, 739–856		C ₅ N 1,2-Dihydro-pyridine 7, 179	
4H-1,3-Dithiin 6, 173 <i>f</i> ; 8, 739–856		1,4-Dihydro-pyridine 7, 179, 188; 7, 269, 274–275	
1,2-Dithiin 8, 1–116		3,4-Dihydro-pyridine 7, 178–179, 179, 179	
1,4-Dithiin 8, 857–905		1,2,3,4-Tetrahydro-pyridine 1, 29 <i>f</i> , 30; 7, 179, 199	
C ₄ Te ₂ 1,4-Ditellurin 9, 739			

1,2,3,6-Tetrahydro-pyridine 7, 205		Phosphorin 2, 896; 3, 1102, 1119; 7, 1003–1003	
2,3,4,5-Tetrahydro-pyridine 7, 194		C ₅ S 1 λ^4 -Thiopyran 7, 727–954	
Piperidine 1, 33 <i>f</i> , 34 <i>f</i> , 34 <i>f</i> , 34 <i>f</i> ; 7, 199, 208; 7, 217–308		3,4-Dihydro-2H-thiopyran 7, 727–954	
Pyridine 5, 234–235; 6, 155 <i>t</i> ; 6, 161 <i>t</i> ; 6, 473 <i>f</i> ; 6, 608; 6, 551 <i>f</i> ; 6, 551 <i>f</i> ; 6, 574 <i>f</i> ; 7, 1–40; 7, 41–99; 7, 101–169; 7, 171–216; 7, 217–308; 7, 309–336		3,6-Dihydro-2H-thiopyran 7, 727–954	
C ₅ O 3,4-Dihydro-2H-pyran 7, 337–418; 7, 419–699; 7, 701–726		Tetrahydro-thiopyran 7, 727–954	
3,6-Dihydro-2H-pyran 7, 337–418; 7, 419–699; 7, 701–726		2H-Thiin 7, 727–954	
Tetrahydro-pyran 7, 337–418; 7, 419–699; 7, 701–726		4H-Thiopyran 7, 727–954	
2H-Pyran 5, 235; 6, 145–190; 7, 337–418; 7, 419–699; 7, 701–726		C ₅ Sb Stibinine 7, 1039–1048	
4H-Pyran 7, 337–418; 7, 419–699; 7, 701–726		3,4-Dihydro-2H-selenopyran 7, 955–1001	
Pyrylium 7, 337–418; 7, 419–699; 7, 701–726		2H-Selenin 7, 955–1001	
C ₅ P 1,2-Dihydro-phosphinine 7, 1023–1024		3,6-Dihydro-2H-selenopyran 7, 955–1001	
1,2,3,4-Tetrahydro-phosphinine 7, 1015–1016		4H-Selenopyran 7, 955–1001	
Phosphinane 7, 1003–1003		1 λ^4 -Selenopyran 7, 955–1001	
		C ₅ Sn 1,4-Dihydro-stannine 7, 1061 <i>f</i>	

C_5Te

3,6-Dihydro-2H-telluropyran
7, 955–1001



1 λ^4 -Telluropyran
7, 955–1001



Tetrahydro-selenopyran
7, 955–1001



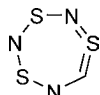
N_3P_3
Triazatriphosphinine
9, 842, 842



4H-Selenopyran
7, 955–1001



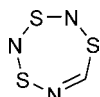
CN₃S₃
1,3,5,2,4,6-Trithiatriazepine
13, 529–569



C₃N₄
2,3,4,5-Tetrahydro-1H-[1,2,4,6]tetrazepine
13, 563



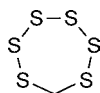
1,3,5,2,4,7-Trithiatriazepine
13, 529–569



2,3,4,7-Tetrahydro-1H-[1,2,4,5]tetrazepine
13, 550f



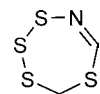
CS₆
Hexathiepane
1, 670; 13, 558, 562



C₄AsO₂
[1,3,2]Dioxarsepane
14, 964, 964



C₂NS₄
1,2,3,6,4-Tetrathiazepine
13, 529–569

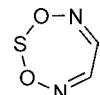


C₄MSi₂
1,5,3-Disilametallapane
14, 989

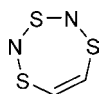


M=Hg, Pd, Zn, Yb, Mn, Sn

C₂N₂O₂S
1,3,2,4,7-Dioxathiadiazepine
13, 529–569



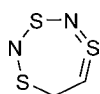
C₂N₂S₃
1,3,5,2,4-Trithiadiazepine
13, 529–569



C₄NOS
1,3,5-Oxathiazepine
13, 489–527



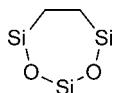
1,3,5,2,4-Trithiadiazepine
13, 529–569



C₄NO₂
[1,3,2]Dioxazepane
13, 395



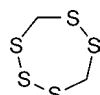
C₂O₂Si₃
[1,3,2,4,7]Dioxatrisilepane
14, 1005



[1,5,2]Dioxazepane
13, 433–487, 455, 462



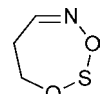
C₂S₅
1,2,3,5,6-Pentathiepane
1, 670; 13, 545–546, 553



[1,5,3]Dioxazepane
13, 496–497



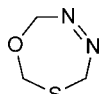
C₃NO₂S
6,7-Dihydro-[1,3,2,4]dioxathiazepine
13, 547



1,3,5-Dioxazepine
13, 489–527



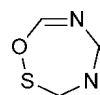
C₃N₂OS
2,5-Dihydro-[1,6,3,4]oxathiadiazepine
13, 546



C₄NS₂
[1,2,5]Dithiazepane
13, 459, 474



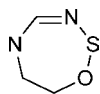
4,5-Dihydro-3H-[1,2,4,6]oxathiadiazepine
13, 546–547



3H-1,2,5-Dithiazepine
13, 433–487

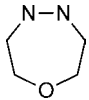
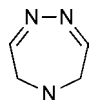
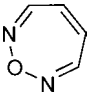
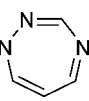
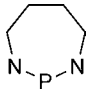
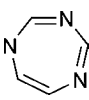
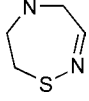
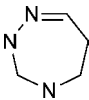
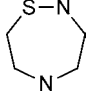
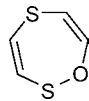
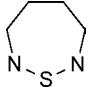
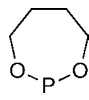
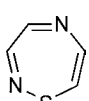
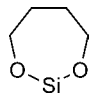
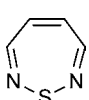
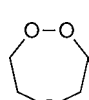
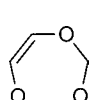
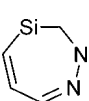
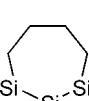
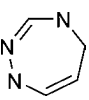
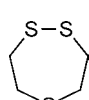


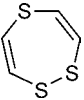
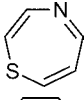
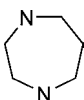
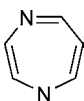
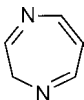
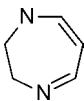
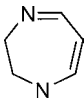
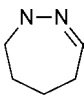
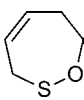
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Thiepine
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2,3,4,7-Tetrahydro-oxepine
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C₆Se
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2,3,6,7-Tetrahydro-oxepine
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C₆S
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C₆Sn
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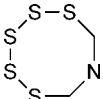
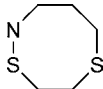
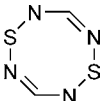
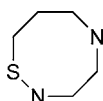
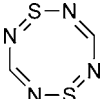
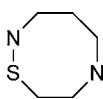
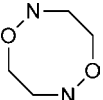
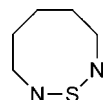
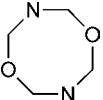
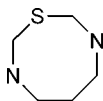
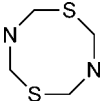
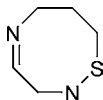
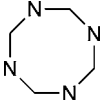
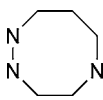
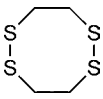
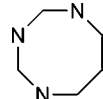
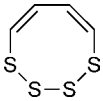
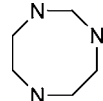
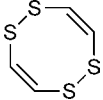
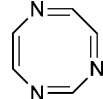
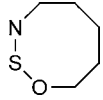
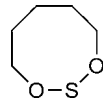
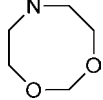
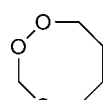
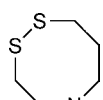
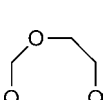


Thiepane
7, 886; 13, 97–141



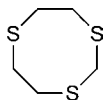
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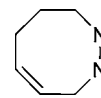
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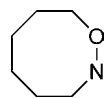
[1,3,6]Trithiocane
14, 500



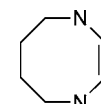
1,2,3,4,5,8-Hexahydro-[1,2]diazocine
14, 101, 118–119



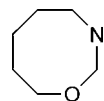
[1,2]Oxazocane
14, 121



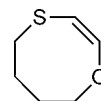
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14, 270f



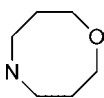
[1,3]Oxazocane
14, 191



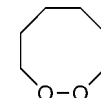
5,6,7,8-Tetrahydro-[1,4]oxathiocine
14, 295



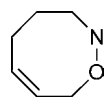
[1,5]Oxazocane
14, 386, 398



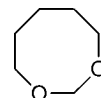
[1,2]Dioxocane
14, 139



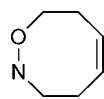
3,4,5,8-Tetrahydro-2H-[1,2]oxazocine
14, 121



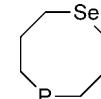
[1,3]Dioxocane
14, 234



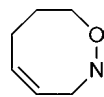
3,4,7,8-Tetrahydro-2H-[1,2]oxazocine
14, 121



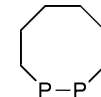
[1,5]Selenaphosphocane
14, 932



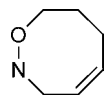
3,6,7,8-Tetrahydro-2H-[1,2]oxazocine
14, 121



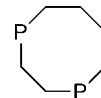
[1,2]Diphosphocane
14, 925–926



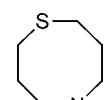
3,6,7,8-Tetrahydro-2H-[1,2]oxazocine
14, 121



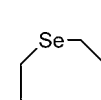
[1,4]Diphosphocane
14, 924–925



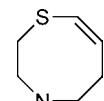
[1,5]Thiazocane
14, 409



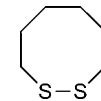
[1,5]Diselenocane
2, 470



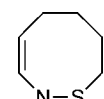
3,4,5,6-Tetrahydro-2H-[1,4]thiazocine
14, 282–283



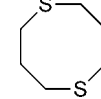
[1,2]Dithiocane
14, 160



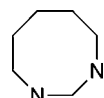
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14, 135



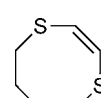
[1,5]Dithiocane
14, 451



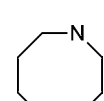
[1,3]Diazocane
14, 188



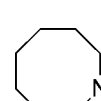
5,6,7,8-Tetrahydro-[1,4]dithiocine
14, 296



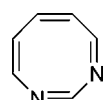
[1,5]Diazocane
14, 306



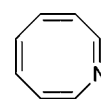
Azocane
14, 7



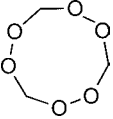
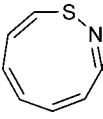
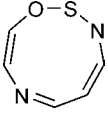
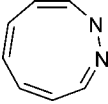
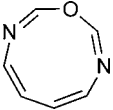
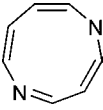
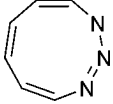
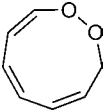
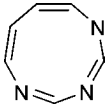
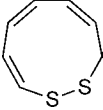
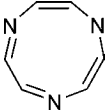
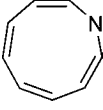
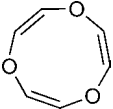
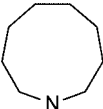
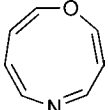
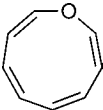
1,3-Diazocine
14, 118



Azocine
14, 1–47



3,4-Dihydro-azocine 14, 7		3,4,7,8-Tetrahydro-2H-oxocine 14, 65 <i>f</i>	
1,2,3,4,5,6-Hexahydro-azocine 14, 7		C ₇ P Phosphocane 14, 920	
1,2,3,4,5,8-Hexahydro-azocine 14, 7		C ₇ S 3,4,5,6-Tetrahydro-2H-thiocine 14, 93	
1,2,3,4,7,8-Hexahydro-azocine 14, 7		Thiocane 14, 95, 96	
1,2,3,8-Tetrahydro-azocine 7, 204		3,4-Dihydro-1λ ⁴ -thiocine 7, 831 <i>t</i>	
C ₇ O Oxocane 14, 49–88		1 <i>Z</i> ,3 <i>Z</i> ,5 <i>Z</i> ,7 <i>Z</i> -Thiacine 14, 93–94	
5,6-Dihydro-4H-oxocine 14, 73 <i>f</i>			

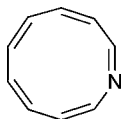
C_3O_6 1,2,4,5,7,8-Hexoxonane 14, 547–611		C_7NS 1,2-Thiazonine 14, 547–611	
C_5N_2OS 3H-1,2,3,7-Oxathiadiazonine 14, 547–611		C_7N_2 1H-1,2-Diazonine 14, 547–611	
C_6N_2O 1,3,8-Oxadiazonine 14, 547–611		1H-1,5-Diazonine 14, 547–611	
C_6N_3 1H-1,2,3-Triazonine 14, 547–611		C_7O_2 3H-1,2-Dioxonine 14, 547–611	
1H-1,3,5-Triazonine 14, 547–611		C_7S_2 3H-1,2-Dithionine 14, 547–611	
1H-1,4,7-Triazonine 14, 547–611		C_8N 1H-Azonine 14, 547–611	
C_6O_3 1,4,7-Trioxonine 14, 547–611		Azonane 14, 547–611	
C_7NO 1,5-Oxazonine 14, 547–611		C_8O Oxonine 14, 547–611	

10

C₉N

Azecine

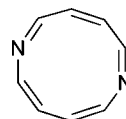
14, 613–666



C₈N₂

1,6-Diazecine

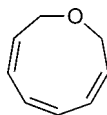
14, 613–666



C₉O

2H-Oxonine

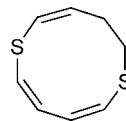
14, 547–611



C₈S₂

1,6-Dithiecine

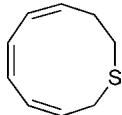
14, 751–801



C₉S

2H-Thiecine

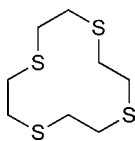
14, 751–801



12

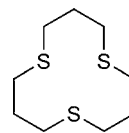
C_8S_4

1,4,7,10-Tetrathia-cyclododecane
1, 335; 14, 751–801



C_9S_3

1,5,9-Trithia-cyclododecane
2, 404; 14, 751–801



3,3

C₂Te₂-C₂Te₂

1λ⁴,3λ⁴-Ditellura-bicyclo[1.1.0]butane
2, 864



C₂P-C₃

2-Phospha-bicyclo[1.1.0]butane
1, 442



C₂N-C₂N

1-Azabicyclo[1.1.0]butane
1, 142



3,4

CP₂-C₂P₂

1,3,5-Triphospha-bicyclo[2.1.0]pent-2-ene
1, 700*f*, 711, 736



C₂S-C₄

5-Thia-bicyclo[2.1.0]pentane
1, 393



C₂O-C₃O

1,4-Dioxa-spiro[2.3]hexane
2, 371



5-Thia-bicyclo[2.1.0]pent-2-ene
1, 398



C₂O-C₄

5-Oxabicyclo[2.1.0]pentane
1, 238

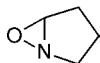


1-Thia-spiro[2.3]hexane
1, 394



3,5

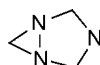
CNO-C₄N
6-Oxa-1-azabicyclo[3.1.0]hexane
1, 565–566, 604–605



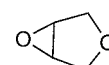
C₂NC₃NS
2-Thia-1-aza-bicyclo[3.1.0]hex-3-ene
1, 128*t*, 143*f*, 143*f*; 8, 555–556



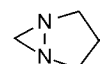
CN₂-C₂N₃
1,3,5-Triazabicyclo[3.1.0]hexane
1, 548, 549



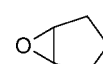
C₂O-C₄O
3,6-Dioxabicyclo[3.1.0]hexane
1, 275



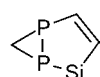
CN₂-C₃N₂
1,5-Diazabicyclo[3.1.0]hexane
9, 661



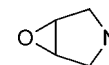
C₂O-C₅
6-Oxabicyclo[3.1.0]hexane
1, 235–298



CP₂-C₂P₂Si
1,5-Diphospha-2-sila-bicyclo[3.1.0]-
hex-3-ene
1, 701*f*



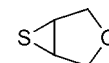
C₂OC₄N
6-Oxa-3-aza-bicyclo[3.1.0]hexane
1, 276



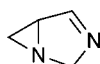
C₂N-C₃NO
4-Oxa-1-aza-bicyclo[3.1.0]hexane
1, 126–127, 127



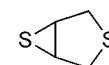
C₂S-C₄O
3-Oxa-6-thia-bicyclo[3.1.0]hexane
1, 392



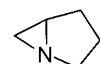
C₂N-C₃N₂
1,3-Diaza-bicyclo[3.1.0]hex-3-ene
1, 107



C₂S-C₄S
3,6-Dithia-bicyclo[3.1.0]hexane
1, 422



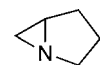
C₂N-C₄N
1-Azabicyclo[3.1.0]hexane
1, 25; 1, 105–172



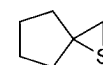
1λ⁴-Thia-bicyclo[3.1.0]hexane
12, 482



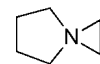
1-Aza-bicyclo[3.1.0]hexane
1, 105–172



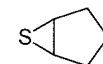
C₂S-C₅
1-Thia-spiro[2.4]heptane
1, 394



3-Aza-spiro[2.4]heptane
12, 1049*f*



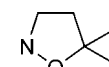
6-Thiabicyclo[3.1.0]hexane
1, 391–431



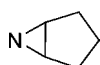
C₂N-C₄O
3-Oxa-6-azabicyclo[3.1.0]hexane
1, 110



C₃-C₃NO
4-Oxa-5-aza-spiro[2.4]heptane
4, 399, 400, 401, 402



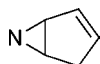
C₂N-C₅
6-Azabicyclo[3.1.0]hexane
1, 105–172



C₃-C₃NS
2-Thia-4-aza-bicyclo[3.1.0]hex-3-ene
8, 579–580

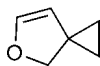


6-Aza-bicyclo[3.1.0]hex-2-ene
1, 17

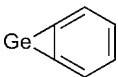
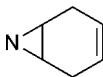
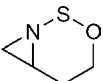
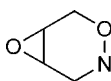
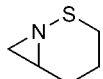
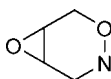
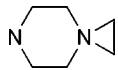
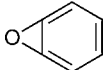
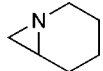
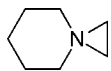
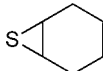
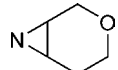
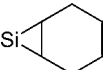
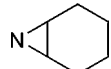


C₃-C₄N
3-Azabicyclo[3.1.0]hexane
7, 2240



C₃-C₄O5-Oxa-spiro[2.4]hept-6-ene
3, 523C₃-C₄P3-Phosphabicyclo[3.1.0]hexane
7, 1019, 1023–1024, 1024, 1025, 10312-Oxa-bicyclo[3.1.0]hex-3-ene
3, 412–413C₃-C₄S3-Thia-bicyclo[3.1.0]hexane
3, 763

3,6

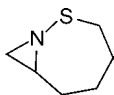
C_2Ge-C_6 7-Germa-bicyclo[4.1.0]hepta-1,3,5-triene 1 , 495		$7-Aza-bicyclo[4.1.0]hept-3-ene$ 1 , 1-104 , 88, 89	
C_2N-C_3NOS 3-Oxa-2-thia-1-aza-bicyclo[4.1.0]heptane 1 , 129 <i>f</i> , 143–144		C_2O-C_4NO 3,7-Dioxa-4-aza-bicyclo[4.1.0]heptane 8 , 347–348	
C_2N-C_4NS 2-Thia-1-aza-bicyclo[4.1.0]heptane 1 , 128 <i>t</i> , 143 <i>f</i> , 143 <i>f</i>		C_2O-C_6 7-Oxabicyclo[4.1.0]heptane 1 , 180	
$C_2N-C_4N_2$ 3,6-Diaza-spiro[2.5]octane 12 , 1050		$7-Oxa-bicyclo[4.1.0]hepta-1,3,5-triene$ 1 , 290	
C_2N-C_5N 1-Azabicyclo[4.1.0]heptane 1 , 25; 1 , 105–172		C_2S-C_5S 1 λ^4 -Thia-bicyclo[4.1.0]heptane 12 , 482	
3-Aza-spiro[2.5]octane 12 , 1049 <i>f</i>		C_2S-C_6 7-Thiabicyclo[4.1.0]heptane 1 , 391–431 , 403	
C_2N-C_5O 3-Oxa-7-azabicyclo[4.1.0]heptane 1 , 15 <i>f</i>		C_2Si-C_6 7-Sila-bicyclo[4.1.0]heptane 1 , 491	
C_2N-C_6 7-Azabicyclo[4.1.0]heptane 1 , 1-104 ; 1 , 105–172		C_3-C_5P 2-Phospha-bicyclo[4.1.0]hepta-1,3,5-triene 7 , 1006	

3,7

C₂N-C₅NS

2-Thia-1-aza-bicyclo[5.1.0]octane

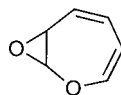
1, 128*t*, 129*t*



C₂O-C₆O

2,8-Dioxa-bicyclo[5.1.0]octa-3,5-diene

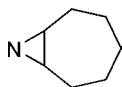
1, 659



C₂N-C₇

8-Azabicyclo[5.1.0]octane

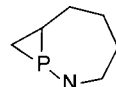
1, 113



C₂P-C₅NP

2-Aza-1-phospha-bicyclo[5.1.0]octane

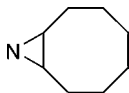
12, 545*f*



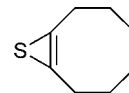
3,8

C₂N-C₈

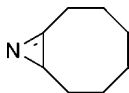
9-Azabicyclo[6.1.0]nonane
1; **5**, 58*f*, 61*f*; **1**, 111, 113, 113, 140



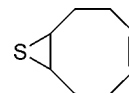
9-Thia-bicyclo[6.1.0]non-1(8)-ene
1, 392



9-Aza-bicyclo[6.1.0]non-1(9)-ene
1, 151–152

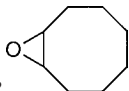


9-Thia-bicyclo[6.1.0]non-4-ene
1, 392



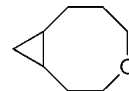
C₂O-C₈

9-Oxabicyclo[6.1.0]nonane
1, 271, 280*f*, 280, 281; **2**, 379, 380, 382



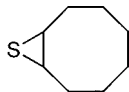
C₃-C₇O

4-Oxa-bicyclo[6.1.0]nonane
14, 68*f*



C₂S-C₈

9-Thiabicyclo[6.1.0]nonane
1, 402, 409, 416; **1**, 671

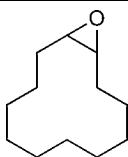


3,12

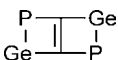
C₂O-C₁₂

13-Oxa-bicyclo[10.1.0]tridecane

1, 2847



4,4

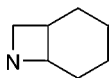
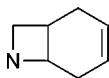
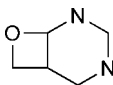
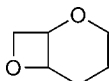
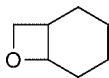
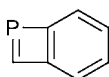
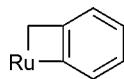
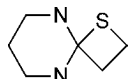
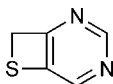
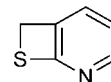
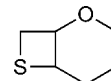
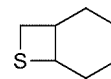
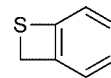
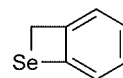
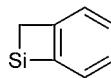
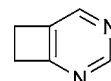
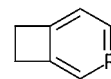
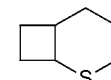
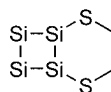
C_2GeP-C_2GeP 2,5-Diphospha-3,6-digerma-bicyclo [2.2.0]hex-1(4)-ene 2, 911		C_3N-C_3S 2-Thia-6-aza-bicyclo[2.2.0]hexane 2, 430, 444	
C_2NO-C_3N 3-Oxa-1-aza-bicyclo[2.2.0]hex-5-ene 2, 695–696		C_3N-C_4 2-Azabicyclo[2.2.0]hexane 2, 91	
$C_2N_2-C_3N$ 1,2-Diaza-bicyclo[2.2.0]hexa-2,5-diene 2, 99		2-Aza-bicyclo[2.2.0]hex-5-ene 2, 239–319	
$C_2P_2-C_3P$ 1,3-Diphospha-bicyclo[2.2.0]hexa-2,5-diene 2, 493		C_3P-C_3P 1-Phospha-bicyclo[2.2.0]hexa-2,5-diene 7, 1009	
$C_2S_2-C_2S_2$ 1λ ⁴ ,4λ ⁴ -Dithia-bicyclo[2.2.0]hexane 12, 504		C_3Se-C_3Se 2,6-Diselena-spiro[3.3]heptane 2, 463–477	
$C_2S_2-C_3S$ 2,4-Dithia-bicyclo[1.1.1]pentane 2, 836		C_3Si-C_3Ti 5-Sila-2-titanabicyclo [2.2.0]hexa-1(6),3-diene 2, 575	
C_3N-C_3N 1-Azabicyclo[2.2.0]hexane 2, 239–319		C_3Ti-C_3Ti 2,5-Dititanabicyclo[2.2.0]hexa-1(6),3-diene 2, 575	

4,5

CNPS-C ₃ NP 6-Thia-1-aza-5-phospha-bicyclo [3.2.0]hept-3-ene 2, 952–953		C ₃ O-C ₃ NO 4,6-Dioxa-2-aza-bicyclo[3.2.0]hept-2-ene 2, 374	
C ₂ NS-C ₃ NS 4,6-Dithia-1-aza-bicyclo[3.2.0]heptane 2, 716		C ₃ O-C ₄ N 6-Oxa-2-aza-bicyclo[3.2.0]heptane 2, 374, 382–383	
C ₂ NS-C ₄ N 7-Thia-1-aza-bicyclo[3.2.0]heptane 2, 741, 743–745		C ₃ O-C ₄ O 3,6-Dioxa-bicyclo[3.2.0]heptane 2, 376–377	
C ₂ N ₂ -C ₃ N ₂ 1,5-Diaza-bicyclo[3.2.0]heptane 2, 658		4,7-Dioxabicyclo[3.2.0]heptane 2, 378	
1,5-Diaza-bicyclo[3.2.0]hept-6-ene 2, 658		C ₃ O-C ₅ 6-Oxabicyclo[3.2.0]heptane 2, 365–387	
C ₂ O ₂ -C ₄ O 2,6,7-Trioxa-bicyclo[3.2.0]heptane 2, 782–783, 786, 787		C ₃ P-C ₃ PS 2-Thia-1-phospha-bicyclo [3.2.0]hepta-3,6-diene 2, 493, 502	
C ₂ S ₂ -C ₃ N ₂ 1,3-Dithia-6,7-diaza-spiro[3.4]octane 2, 841		C ₃ S-C ₄ N 1-Thia-5-aza-spiro[3.4]octane 2, 430	
C ₂ S ₂ -C ₄ S 5,6-Dithia-bicyclo[2.1.1]hexane 2, 822		C ₃ S-C ₄ O 2-Oxa-6-thia-bicyclo[3.2.0]heptane 2, 431, 453	
C ₃ N-C ₃ NO 4-Oxa-1-azabicyclo[3.2.0]heptane 2, 239–319		C ₃ S-C ₄ S 1λ ⁴ -Thia-bicyclo[3.2.0]heptane 12, 482	
C ₃ N-C ₃ NS 4-Thia-1-azabicyclo[3.2.0]heptane 2, 130; 8, 666–667; 4, 670 ^f		C ₃ Se-C ₄ O 2-Oxa-6-selena-bicyclo[3.2.0]heptane 2, 465 ^t , 474	
C ₃ N-C ₃ N ₂ 1,4-Diaza-bicyclo[3.2.0]hept-4-ene 2, 261		C ₃ Te-C ₄ O 2-Oxa-6-tellura-bicyclo[3.2.0]heptane 2, 474	
C ₃ N-C ₄ N 1-Aza-bicyclo[3.2.0]hept-2-ene 2, 239–319		C ₄ -C ₃ NO 2-Oxa-4-azabicyclo[3.2.0]heptane 4, 509	
3,6-Diazabicyclo[3.2.0]heptane 2, 256		C ₄ -C ₃ NSe 2-Selena-4-aza-bicyclo[3.2.0]heptane 4, 791–821	

4,6

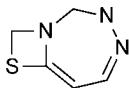
$C_2GeTe-C_6$ 7-Tellura-8-germa-bicyclo [4.2.0]octa-1,3,5-triene 2, 868		$C_3N-C_2N_2O$ 4-Oxa-1,3-diaza-bicyclo[4.2.0]oct-2-ene 2, 156–157; 9, 323	
$C_2Ge_2-C_6$ 7-Selena-8-germa-bicyclo [4.2.0]octa-1,3,5-triene 2, 868		$C_3N-C_3N_2S$ 5-Thia-1,4-diaza-bicyclo[4.2.0]octane 9, 349	
7,8-Digerma-bicyclo [4.2.0]octa-1,3,5-triene 2, 914, 921		C_3N-C_4NO 4-Oxa-1-aza-bicyclo[4.2.0]oct-2-ene 2, 144	
C_2NS-C_4NO 4-Oxa-8-thia-1-aza-bicyclo[4.2.0]octane 2, 754f		5-Oxa-1-aza-bicyclo[4.2.0]oct-2-ene 2, 111–171, 141	
C_2NS-C_5N 7-Thia-1-aza-bicyclo[4.2.0]octa-3,5-diene 2, 740, 741		C_3N-C_4NS 2,3-Dihydro-imidazo[1,2-d][1,2,4]- thiadiazole 5, 483	
C_2NS-C_6 7-Thia-8-aza-bicyclo [4.2.0]octa-1,3,5-triene 2, 733–734, 755		4-Thia-1-aza-bicyclo[4.2.0]oct-2-ene 2, 144	
$C_2N_2-C_5N$ 1,7-Diaza-bicyclo[4.2.0]octane 2, 665		5-Thia-1-azabicyclo[4.2.0]octane 5, 235; 8, 580, 582–583; 8, 642	
1,7-Diaza-bicyclo[4.2.0]oct-2-ene 2, 664f		5-Thia-1-aza-bicyclo [4.2.0]oct-2-ene(cephalosporin) 2, 111–171; 5, 498; 8, 642	
$C_2S_2-C_5S$ 6,7-Dithiabicyclo[3.1.1]heptane 2, 822, 824, 824, 836, 843		C_3N-C_4OS 5-Oxa-2-thia-7-aza-bicyclo[4.2.0]octane 8, 875	
$C_2Si_2-C_6$ 7,8-Disila-bicyclo[4.2.0]octa-1,3,5-triene 2, 914, 914		C_3N-C_5N 1-Aza-bicyclo[4.2.0]oct-2-ene 2, 145; 2, 664f	
C_3Ir-C_6 1,2-Dihydrobenzo[b]iridabete 2, 555–621		2,7-Diaza-spiro[3.5]nona-5,8-diene 7, 131f	

C₃N-C₆7-Azabicyclo[4.2.0]octane
2, 2587-Aza-bicyclo[4.2.0]oct-3-ene
2, 281C₃O-C₄N₂8-Oxa-2,4-diaza-bicyclo[4.2.0]octane
8, 178C₃O-C₅O2,7-Dioxa-bicyclo[4.2.0]octane
2, 378C₃O-C₆7-Oxabicyclo[4.2.0]octane
2, 365–3871-Oxaspiro[3.5]nonane
2, 369, 370, 377–378C₃P-C₆7-Phospha-bicyclo[4.2.0]octa-1(6),
2,4,7-tetraene
2, 486–487C₃Ru-C₆1,2-Dihydrobenzo[b]rutenabete
2, 555–621C₃S-C₄N₂1-Thia-5,9-diaza-spiro[3.5]nonane
2, 4517-Thia-2,4-diaza-bicyclo[4.2.0]octa-1(6),
2,4-triene
2, 449, 449–450, 450–451, 457C₃S-C₅N8-Thia-2-aza-bicyclo
[4.2.0]octa-1(6),2,4-triene
2, 447C₃S-C₅O2-Oxa-7-thia-bicyclo[4.2.0]octane
2, 431, 445–446C₃S-C₆7-Thia-bicyclo[4.2.0]octane
2, 4337-Thia-bicyclo[4.2.0]octa-1(6),2,4-triene
2, 437–438, 438–439, 455C₃Se-C₆7-Selena-bicyclo[4.2.0]octa-1,3,5-triene
2, 464, 473–474C₃Si-C₆7-Sila-bicyclo[4.2.0]octa-1(6),2,4-triene
2, 515, 540–541C₄-C₄N₂2,4-Diaza-bicyclo[4.2.0]octa-1(6),
2,4-triene
8, 221, 221C₄-C₅P3-Phospha-bicyclo[4.2.0]octa-1,3,5-triene
7, 1006C₄-C₅S2-Thia-bicyclo[4.2.0]octane
7, 735Si₄-C₂S₂Si₂2,5-Dithia-1,6,7,8-tetrasilabicyclo
[4.2.0]octane
6, 667

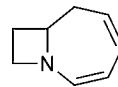
4,7

C₂NS-C₄N₃

8-Thia-1,3,4-triaza-bicyclo
[5.2.0]nona-4,6-diene
2, 721–722, 761

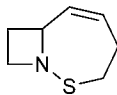


1-Aza-bicyclo[5.2.0]nona-2,4-diene
2, 305



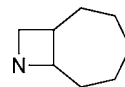
C₃N-C₅NS

2-Thia-1-aza-bicyclo[5.2.0]non-5-ene
2, 243; 14, 136, 138



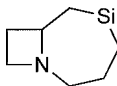
C₃N-C₇

8-Aza-bicyclo[5.2.0]nonane
2, 281



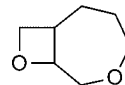
C₃N-C₅NSi

1-Aza-5-sila-bicyclo[5.2.0]nonane
2, 264



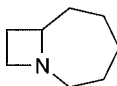
C₃O-C₆O

3,9-Dioxa-bicyclo[5.2.0]nonane
13, 67



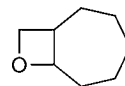
C₃N-C₆N

1-Azabicyclo[5.2.0]nonane
1, 562



C₃O-C₇

8-Oxa-bicyclo[5.2.0]nonane
2, 379

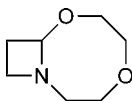


4,8

C₃N-C₅NO₂

4,7-Dioxa-1-aza-bicyclo[6.2.0]decane

2, 243



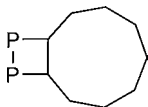
4,9

C₂P₂-C₉

10,11-Diphospha-bicyclo

[7.2.0]undecane

2, 879

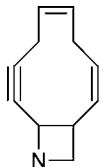


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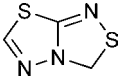
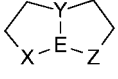
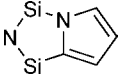
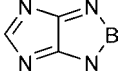
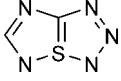
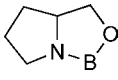
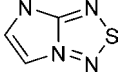
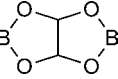
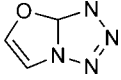
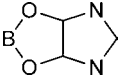
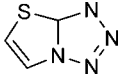
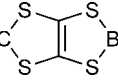
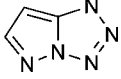
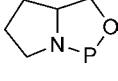
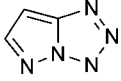
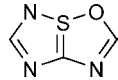
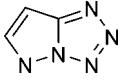
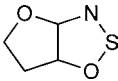
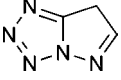
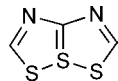
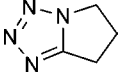
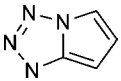
C₃N-C₁₀

11-Aza-bicyclo[8.2.0]dodec-5-ene-2,
8-diyne

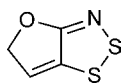
2, 253, 268, 269, 270, 275



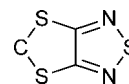
5,5

CN ₂ S-CN ₂ S [1,3,4]Thiadiazolo[2,3-c] [1,2,4]thiadiazole 11, 340		C ₂ (E)(X)(Y)-C ₂ (E)(Y)(Z) 1,2',3',6-Tetraheterapentalene 12, 563	 X, Y, Z = O, N, S E = Bi, Al, Ga, Sn
CN ₂ Si ₂ -C ₄ N 2,3-Dihydro-1H-2,3a-diaza-1, 3-disila-pentalene 11, 307–323		C ₂ BN ₂ -C ₃ N ₂ 1,2-Dihydro-1,3,4,6-tetraaza- 2-bora-pentalene 10, 241	
CN ₃ S-C ₂ N ₂ S Thiapentaazapentalene 6, 479 ^f		C ₂ BON-C ₄ N Tetrahydro-pyrrolo[1,2-c] [1,3,2]oxazaborole 11, 119	
CN ₃ S-C ₃ N ₂ 4H-Imidazo[1,2-c][1,2,3,5]thiatriazole 6, 492 ^f		C ₂ BO ₂ -C ₂ BO ₂ Dihydro-1,3,4,6-tetraoxa-2, 5-dibora-pentalene 10, 238	
CN ₄ -C ₃ NO 1,6a-Dihydro-6-oxa-1,2,3,3a-tetraaza- pentalene 11, 351–366		C ₂ BO ₂ -C ₃ N ₂ Tetrahydro-[1,3,2]dioxaborolo [4,5-d]imidazole 10, 245	
CN ₄ -C ₃ NS 3,3a-Dihydro-thiazolo[3,2-d]tetrazole 11, 351–366		C ₂ BS ₂ -C ₃ S ₂ 1,3,4,6-Tetrathia-2-bora-pentalene 10, 239	
CN ₄ -C ₃ N ₂ 1H-Pyrazolo[1,5-d]tetrazole 11, 351–366		C ₂ NOP-C ₄ N Tetrahydro-pyrrolo[1,2-c] [1,3,2]oxaphosphole 11, 119	
3H-Pyrazolo[1,5-d]tetrazole 11, 351–366		C ₂ NOS-C ₂ N ₂ S 5H-4λ ⁺ -[1,2,4->Thiadiazolo[1,5- <i>b</i>] [1,2,4]oxathiazole 6, 466 ^f	
5H-Pyrazolo[1,5-d]tetrazole 11, 351–366		C ₂ NOS-C ₄ O Tetrahydro-1,4-dioxa-2-thia- 3-aza-pentalene 10, 150	
7H-Pyrazolo[1,5-d]tetrazole 11, 351–366		C ₂ NS ₂ -C ₂ NS ₂ 4 4-[1,2,4]Dithiazolo[1,5- <i>b</i>] [1,2,4]dithiazole 6, 73–74, 74; 6, 465 ^f ; 6, 466 ^f ; 6, 467 ^f	
CN ₄ -C ₄ N 6,7-Dihydro-5H-pyrrolotetrazole 11, 307–323			
1H-Pyrrolotetrazole 11, 307–323; 6, 274			

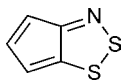
C₂NS₂-C₄O
5H-4-Oxa-1,2-dithia-3-aza-pentalene
10, 140



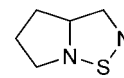
C₂N₂S-C₃S₂
2,4,6-Trithia-1,3-diaza-pentalene
10, 239



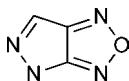
C₂NS₂-C₅
Cyclopenta[1,2,3]dithiazole
6, 29



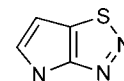
C₂N₂S-C₄N
Hexahydro-1-thia-2,6a-diaza-pentalene
11, 118f



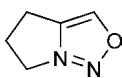
C₂N₂O-C₃N₂
4H-Pyrazolo[3,4-c][1,2,5]oxadiazole
10, 189–261



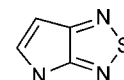
4H-1-Thia-2,3,4-triaza-pentalene
10, 144, 144



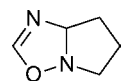
C₂N₂O-C₄N
5,6-Dihydro-4H-pyrrolo[1,2-c]
[1,2,3]oxadiazole
11, 119



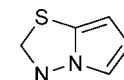
4H-2-Thia-1,3,4-triaza-pentalene
10, 151–152



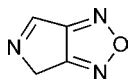
5,6,7,7a-Tetrahydro-pyrrolo[1,2-b]
[1,2,4]oxadiazole
11, 121



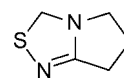
2,3-Dihydro-pyrrolo[2,1-b]
[1,3,4]thiadiazole
11, 123–124



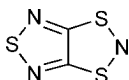
4H-Pyrrolo[3,4-c][1,2,5]oxadiazole
10, 141



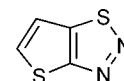
6,7-Dihydro-5H-pyrrolo[2,1-c]
[1,2,4]thiadiazole
11, 125



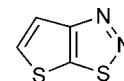
C₂N₂S-CNS₂
[1,2,5]Thiadiazolo[3,4-d]
[1,3,2]dithiazole
6, 37–59



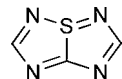
C₂N₂S-C₄S
1,4-Dithia-2,3-diaza-pentalene
10, 146f, 147, 155



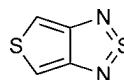
Thieno[3,2-d][1,2,3]thiadiazole
10, 147, 147–148



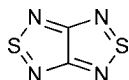
C₂N₂S- C₂N₂S
4λ⁴-[1,2,4->Thiadiazolo[5,1-e]
[1,2,4]thiadiazole
6, 466f



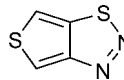
Tetrahydro-1,3-dioxa-2-thia-
5-aza-pentalene
10, 148, 148



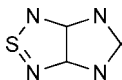
5λ⁴,2λ⁴-[1,2,5]Thiadiazolo[3,4-c]
[1,2,5]thiadiazole
10, 242



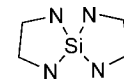
Thieno[3,4-d][1,2,3]thiadiazole
10, 149



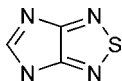
C₂N₂S-C₃N₂
1,3a,4,5,6,6a-Hexahydro-2λ⁴-thia-
1,3,4,6-tetraaza-pentalene
10, 243



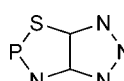
C₂N₂Si-C₂N₂Si
1,4,6,9-Tetraaza-5-sila-spiro[4.4]nonane
6, 666



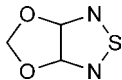
4H-2-Thia-1,3,4,6-tetraaza-pentalene
10, 239



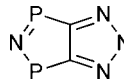
C₂N₃-C₂NPS
Hexahydro-1-thia-3,4,5,6-tetraaza-
2-phospha-pentalene
10, 246



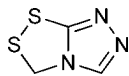
C₂N₂S-C₃O
Tetrahydro-4,6-dioxa-2-thia-
1,3-diaza-pentalene
10, 245



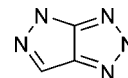
C₂N₃-C₂NP₂
2,4-Dihydro-1,2,3,5-tetraaza-4,
6-diphospha-pentalene
10, 238



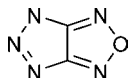
C₂N₃-C₂NS₂
[1,2,4]Triazolo[3,4-c][1,2,4]dithiazole
11, 342



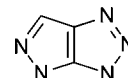
2,4-Dihydro-pyrazolo[3,4-d]
[1,2,3]triazole
10, 189–261, 245



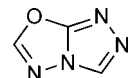
C₂N₃-C₂N₂O
6H-[1,2,3]Triazolo[4,5-c]
[1,2,5]oxadiazole
5, 346, 352



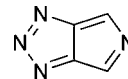
3,4-Dihydro-pyrazolo[3,4-d]
[1,2,3]triazole
10, 240



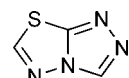
[1,2,4]Triazolo[3,4-b][1,3,4]
11, 351–366



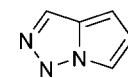
C₂N₃-C₄N
Pyrrolo[3,4-d]-1,2,3-triazole
10, 142^f



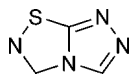
C₂N₃-C₂N₂S
[1,2,4]Triazolo[3,4-b][1,3,4]thiadiazole
11, 325–350



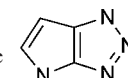
1H-Pyrrolo[1,2-c][1,2,3] triazole
11, 107–131



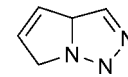
2,3-Dihydro-[1,2,4]triazolo[4,3-d]
[1,2,4]thiadiazole
11, 336–337, 337



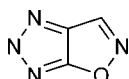
1,4-Dihydro-pyrrolo[2,3-d][1,2,3]triazole
10, 145^f, 153



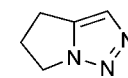
3a,6-Dihydro-1H-pyrrolo[1,2-c]
[1,2,3]triazole
11, 121



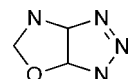
C₂N₃-C₃NO
2H-Isloxazolo[4,5-d][1,2,3]triazole
10, 189–261



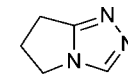
5,6-Dihydro-4H-pyrrolo[1,2-c]
[1,2,3]triazole
11, 118^f



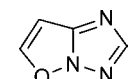
3a,5,6,6a-Tetrahydro-3H-oxazolo[4,5-d]
[1,2,3]triazole
10, 247



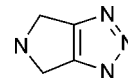
6,7-Dihydro-5H-pyrrolo[2,1-c]
[1,2,4]triazole



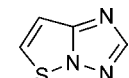
4-Oxa-1,3,3a-triaza-pentalene
11, 351–366



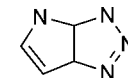
1,4,5,6-Tetrahydro-pyrrolo[3,4-d]
[1,2,3]triazole
10, 154



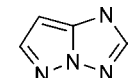
C₂N₃-C₃NS
4-Thia-1,3,3a-triaza-pentalene
11, 351–366



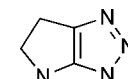
3,3a,4,6a-Tetrahydro-pyrrolo[2,3-d]
[1,2,3]triazole
4, 968–969



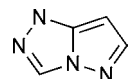
C₂N₃-C₃N₂
1H-Pyrazolo[1,5-b][1,2,4]triazole
11, 247



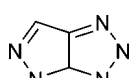
3,4,5,6-Tetrahydro-pyrrolo[2,3-d]
[1,2,3]triazole
10, 153, 153



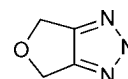
1H-Pyrazolo[5,1-c][1,2,4]triazole
11, 248



2,3,3a,4-Tetrahydro-pyrazolo[3,4-d]
[1,2,3]triazole
10, 240

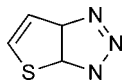


C₂N₃-C₄O
2,6-Dihydro-4H-furo[3,4-d]
[1,2,3]triazole
10, 140–141, 150, 150–151

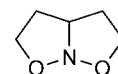


C₂N₃-C₄S

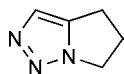
3a,6a-Dihydro-3H-thieno[2,3-d]
[1,2,3]triazole
10, 154–155



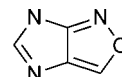
Tetrahydro-isoxazolo[2,3-b]isoxazole
11, 166

C₂N₃-C₅

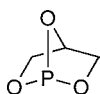
5,6-Dihydro-4H-pyrrolo[1,2-c]
[1,2,3]triazole
1, 8f, 11, 118f



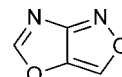
6H-Imidazo[4,5-c]isoxazole
10, 177, 178f

C₂O₂P-C₂O₂P

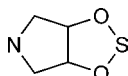
2,6,7-Trioxa-1-phospha-bicyclo
[2.2.1]heptane
12, 554



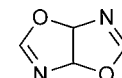
2,4-Dioxa-1,6-diaza-pentalene
10, 178f

C₂O₂S-C₄N

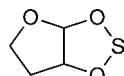
Tetrahydro-1,3-dioxa-2-thia-
5-aza-pentalene
10, 145



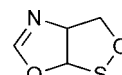
3a,6a-Dihydro-oxazolo[5,4-d]oxazole
10, 175

C₂O₂S-C₄O

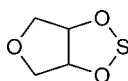
Tetrahydro-furo[2,3-d]
[1,3,2]dioxathiole
6, 170f; 6, 173f, 10, 142, 144

C₃NO-C₃OS

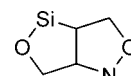
3a,6a-Dihydro-3H-2,6-dioxa-
1-thia-4-aza-pentalene
10, 178–179



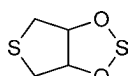
Tetrahydro-furo[3,4-d]
[1,3,2]dioxathiole
10, 150

C₃NO-C₃OSi

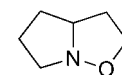
Tetrahydro-2,5-dioxa-1-aza-
4-sila-pentalene
10, 179

C₂O₂S-C₄S

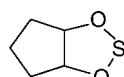
Tetrahydro-thieno[3,4-d]
[1,3,2]dioxathiole
6, 147, 10, 149f, 149

C₃NO-C₄N

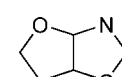
Hexahydro-pyrrolo[1,2-b]isoxazole
11, 67

C₂O₂S-C₅

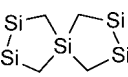
Tetrahydro-cyclopenta[1,3,2]dioxathiole
6, 161f; 6, 173f



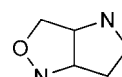
Hexahydro-pyrrolo[3,4-c]isoxazole
4, 420

C₂Si₃-C₂Si₃

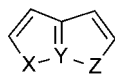
2,3,5,7,8-Pentasila-spiro[4.4]nonane
6, 662



Hexahydro-2-oxa-1,4-diaza-pentalene
4, 418, 421, 3720

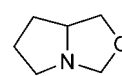
C₃(X)(Y)-C₃(Y)(Z)

1,2',3'-Triheterapentalene
12, 515

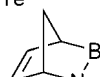


X and Z = S, Se, O or N
Y = S, Se or Te

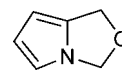
Tetrahydro-pyrrolo[1,2-c]oxazole
11, 88, 92

C₃BN-C₅

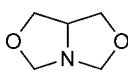
2-Aza-3-bora-bicyclo[2.2.1]hept-5-ene
4, 1192



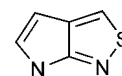
1H-Pyrrolo[1,2-c]oxazole
11, 86

C₃NO-C₃NO

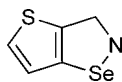
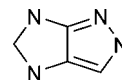
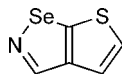
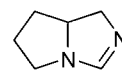
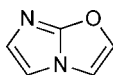
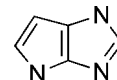
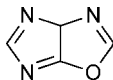
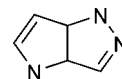
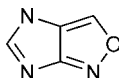
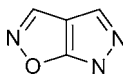
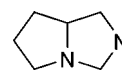
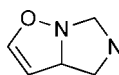
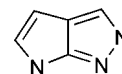
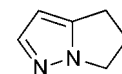
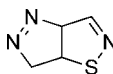
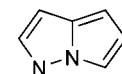
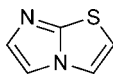
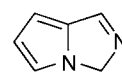
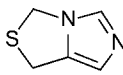
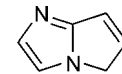
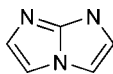
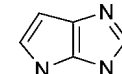
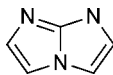
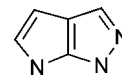
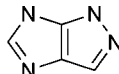
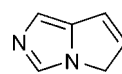
Dihydro-oxazolo[3,4-c]oxazole
11, 166

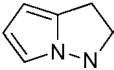
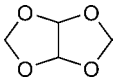
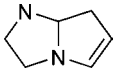
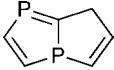
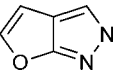
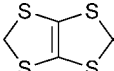
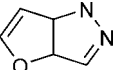
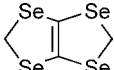
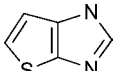
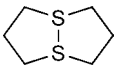
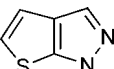
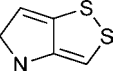
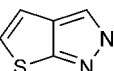
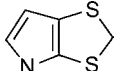
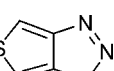
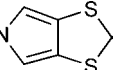
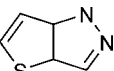
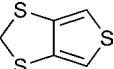
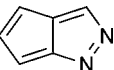
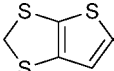
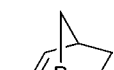
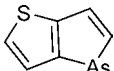
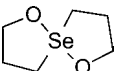
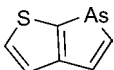
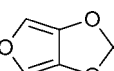
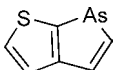
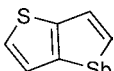


6H-2-Thia-1,6-diaza-pentalene
10, 81f

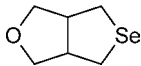
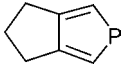
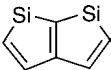
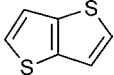
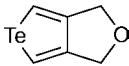
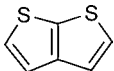
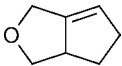
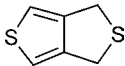
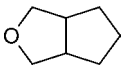
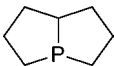
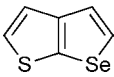
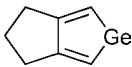
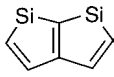
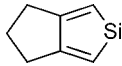
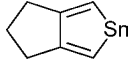


6H-2-Oxa-1,6-diaza-pentalene 10, 81 <i>t</i>		Pyrrolo[2,1-b]thiazole 11, 94	
2,3-Dihydro-pyrrolo[2,1-b]oxazole 11, 74		Pyrrolo[2,1-b]thiazole 8, 632–634	
5,6-Dihydro-4H-pyrrolo[3,4-c]isoxazole 4, 388		Tetrahydro-pyrrolo[1,2-c]thiazole 11, 97	
5,7a-Dihydro-1H-pyrrolo[1,2-c]oxazole 11, 86		1H-Pyrrolo[1,2-c]thiazole 11, 96	
7,7a-Dihydro-1H-pyrrolo[1,2-c]oxazole 11, 86		1 <i>H</i> ,3 <i>H</i> -Pyrrolo[1,2- <i>c</i>]thiazole 6, 462	
2,3,5,7a-Tetrahydro-pyrrolo [2,1-b]oxazole 1, 81		6H-Pyrrolo[3,2-d]isothiazole 10, 79 <i>t</i>	
3,4,5,6-Tetrahydro-1H-pyrrolo [3,4-c]isoxazole 4, 388		6H-2-Thia-1,6-diaza-pentalene 10, 81 <i>t</i>	
C ₃ NO-C ₄ O Hexahydro-furo[2,3-d]isoxazole 4, 394 <i>f</i>		1,4-Dihydro-3λ ⁴ -pyrrolo[3,2-d]thiazole 10, 74	
Hexahydro-furo[2,3-d]oxazole 6, 170 <i>t</i>		2,3-Dihydro-pyrrolo[2,1-b]thiazole 11, 94	
Hexahydro-furo[3,4-d]isoxazole 4, 443 <i>f</i> , 397		C ₃ NS-C ₄ O 2,3-Dihydro-furo[3,4-d]thiazole 10, 78 <i>t</i>	
2,3-Dihydro-furo[3,4-d]oxazole 10, 78 <i>t</i>		C ₃ NS-C ₄ S Thieno[2,3-c]isothiazole 10, 81 <i>t</i>	
C ₃ NS-C ₃ S ₂ 4H-1,2,5-Trithia-4-aza-pentalene 10, 176		Thieno[2,3-d]thiazole 10, 74	
C ₃ NS-C ₄ N Hexahydro-pyrrolo[2,1-b]thiazole 11, 95		1 <i>H</i> -3λ ⁴ -Thieno[3,2-d]thiazole 10, 74	
		4H-Pyrrolo[2,3-d]thiazole 10, 74	

C₃NSe-C₄S2,3-Dihydro-thieno[2,3-d]isosenazole
4, 760*f*2,4,5,6-Tetrahydro-imidazo
[4,5-c]pyrazole
10, 177Thieno[3,2-d]isosenazole
4, 7805,6,7,7a-Tetrahydro-1H-pyrrolo
[1,2-c]imidazole
11, 57C₃N₂-C₃NOImidazo[2,1-b]oxazole
11, 151–1521,4-Dihydro-pyrrolo[2,3-d]imidazole
10, 76*f*3aH-Imidazo[4,5-d]oxazole
10, 1751,3a,4,6a-Tetrahydro-pyrrolo
[3,2-c]pyrazole
10, 83*f*4H-Imidazo[4,5-c]isoxazole
4, 425*f*C₃N₂-C₄N6H-Pyrazolo[4,3-d]isoxazole
4, 58Hexahydro-pyrrolo[1,2-c]imidazole
11, 593a,4,5,6-Tetrahydro-imidazo
[1,5-b]isoxazole
4, 2372,6-Dihydro-pyrrolo[2,3-c]pyrazole
10, 81*f*5,6-Dihydro-4H-pyrrolo[1,2-b]pyrazole
11, 48C₃N₂-C₃NS6,6a-Dihydro-3aH-1-thia-2,4,
5-triaza-pentalene
4, 575–576, 5761H-Pyrrolo[1,2-b]pyrazole
11, 47Imidazo[2,1-b]thiazole
11, 133–1973H-Pyrrolo[1,2-c]imidazole
11, 561H-Imidazo[1,5-c]thiazole
11, 133–1975H-Pyrrolo[1,2-a]imidazole
11, 52C₃N₂-C₃N₂1H-Imidazo[1,2-a]imidazole
11, 133–1973,4-Dihydro-pyrrolo[2,3-d]imidazole
10, 78*f*1H-Imidazo[1,2-a]imidazole
11, 133–1971,6-Dihydro-pyrrolo[2,3-c]pyrazole
10, 79*f*1,6-Dihydro-imidazo[4,5-c]pyrazole
10, 176–1775H-Pyrrolo[1,2-c]imidazole
11, 66

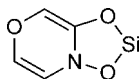
2,3-Dihydro-1H-pyrrolo[1,2-b]pyrazole 11, 47		Tetrahydro-furo[2,3-d][1,3]dioxole 6, 172 <i>f</i> ; 6, 170 <i>g</i> ; 6, 178 <i>t</i>	
2,3,5,7a-Tetrahydro-1H-pyrrolo [1,2-a]imidazole 11, 52		C ₃ P ₂ -C ₄ P 6H-1,3a-Diphospha-pentalene 12, 531	
C ₃ N ₂ -C ₄ O 2H-Furo[2,3-c]pyrazole 10, 82 <i>t</i>		C ₃ S ₂ -C ₃ S ₂ [1,3]Dithiolo[4,5-d][1,3]dithiole 4, 989	
3a,6a-Dihydro-1H-furo[3,2-c]pyrazole 10, 83 <i>t</i>		C ₃ Se ₂ -C ₃ Se ₂ [1,3]Diselenolo[4,4-d][1,3]diselenole 10, 175	
C ₃ N ₂ -C ₄ S 1H-Thieno[2,3-d]imidazole 10, 75 <i>t</i>		Octahydro-8λ ⁴ ,4λ ⁴ -[1,2]dithiolo [1,2-a][1,2]dithiole 12, 504	
1H-Thieno[2,3-c]pyrazole 10, 80 <i>t</i>		C ₃ S ₂ -C ₄ N 4,5-Dihydro-[1,2]dithiolo[4,3-b]pyrrole 2, 844	
2H-Thieno[2,3-c]pyrazole 10, 81 <i>t</i>		4H-[1,3]Dithiolo[4,5-b]pyrrole 8, 417	
3H-Thieno[3,4-c]pyrazole 3, 763–764		5H-[1,3]Dithiolo[4,5-c]pyrrole 4, 955–1090	
3a,6a-Dihydro-1H-thieno[3,2-c]pyrazole 10, 83 <i>t</i>		C ₃ S ₂ -C ₄ S Thieno[3,4-d]-1,3-dithiole 4, 955–1090	
C ₃ N ₂ -C ₅ Cyclopentapyrazole 5, 224–225		Thieno[2,3-d][1,3]dithiole 3, 858	
C ₃ OP-C ₄ P 2-Oxa-1-phospha-bicyclo[2.2.1] hept-5-ene 3, 1067–1068, 1116		C ₄ As-C ₄ S 4H-Arsolo[3,2-b]thiophene 3, 1149–1179	
C ₃ OSe-C ₃ OSe 1,6-Dioxa-5λ ⁴ -seleno-spiro[4.4]nonane 4, 1095		6H-1-Thia-6-arsa-pentalene 3, 1149–1179	
C ₃ O ₂ -C ₄ O Furo[3,4- <i>d</i>]-1,3-dioxole 6, 168 <i>f</i> ; 6, 161 <i>t</i> ; 6, 173 <i>t</i> ; 6, 178 <i>t</i>		6H-Arsolo[2,3-b]thiophene 3, 1149–1179	
		C ₄ Sb-C ₄ S 4H-Stibolo[3,2-b]thiophene 3, 1149–1179	

6H-1-Thia-6-arsa-pentalene 3, 1149–1179		C ₄ N-C ₄ O 6H-Furo[2,3- <i>b</i>]pyrrole 10, 20	
C ₄ Bi-C ₄ S 4 <i>H</i> -Bismolo[3,2- <i>b</i>]thiophene 3, 1149–1179		C ₄ N-C ₄ S 4 <i>H</i> -Thieno[3,2- <i>b</i>]pyrrole 10; 13; 13; 14, 14	
6 <i>H</i> -Bismolo[2,3- <i>b</i>]thiophene 3, 1149–1179		3,5-Dihydro-1 <i>H</i> -thieno[3,4- <i>c</i>]pyrrole 10, 52	
C ₄ Ge-C ₄ N 1,2,3,4,5,6-Hexahydro-2-aza-5-Germa-pentalene 3, 292		C ₄ N-C ₄ Se 6 <i>H</i> -Selenolo[2,3- <i>b</i>]pyrrole 10, 32	
C ₄ Si-C ₅ 2,4,5,6-Tetrahydrocyclopenta[<i>c</i>]silole 3, 1149–1179		C ₄ N-C ₅ Octahydro-cyclopenta[<i>c</i>]pyrrole 1, 23	
C ₄ Sn-C ₅ 2,4,5,6-Tetrahydrocyclopenta[<i>c</i>]stannole 3, 1149–1179		2-Aza-bicyclo[2.2.1]hept-5-ene 1, 148–149	
C ₄ Ge-C ₅ 2,4,5,6-Tetrahydrocyclopenta[<i>c</i>]germole 3, 1149–1179		C ₄ O-C ₄ N 4 <i>H</i> -Furo[3,2- <i>b</i>]pyrrole 10; 13; 14; 14, 26–27, 37	
C ₄ O-C ₄ O Furo[3,2- <i>b</i>]furan 6, 155 <i>t</i>			
C ₄ N-C ₄ N Hexahydro-pyrrolizine 1, 604–605; 11, 15		C ₄ O-C ₄ O Tetrahydro-furo[3,4- <i>c</i>]furan 3, 542	
1 <i>H</i> -Pyrrolizine 11, 1–40		2,3-Dihydro-furo[3,4- <i>b</i>]furan 3, 508	
3 <i>H</i> -Pyrrolizine 11, 1–40		7-Oxa-bicyclo[2.2.1]hept-2-ene 3, 467, 468	
1,4-Dihydro-pyrrolo[3,2- <i>b</i>]pyrrole 10; 11, 37		C ₄ O-C ₄ S Thieno[2,3- <i>b</i>]furan 10, 20	
2,3-Dihydro-1 <i>H</i> -pyrrolizine 11, 1–40		Thieno[3,4- <i>b</i>]furan 3, 850 <i>f</i>	
2,3,7,7a-Tetrahydro-1 <i>H</i> -pyrrolizine 11, 1–40		C ₄ O-C ₄ Se Selenolo[2,3- <i>b</i>]furan 10, 20	

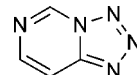
Tetrahydro-selenolo[3,4-c]furan 1, 436		C ₄ P-C ₅ 2,4,5,6-Tetrahydro-cyclopenta[c] phosphole 3, 1084	
C ₄ Si-C ₄ Si 1,6-Dihydro-1,6-disila-Pentalene 3, 1211–1212		C ₄ S-C ₄ S Thieno[3,2-b]thiophene 10, 15	
C ₄ O-C ₄ Te 1H,3H-Tellurolo[3,4-c]furan 3, 1024		Thieno[2,3-b]thiophene 10, 20	
C ₄ O-C ₅ 3,3a,4,5-Tetrahydro-1H-cyclopenta[c]- furan 3, 536–537		1H,3H-Thieno[3,4-c]thiophene 10, 20	
Hexahydro-cyclopenta[c]furan 3, 537, 539–540		7-Thia-bicyclo[2.2.1]heptane 12, 482	
C ₄ P-C ₄ P Hexahydro-phospholo[1,2-a]phosphole 12, 537		7-Thia-bicyclo[2.2.1]hept-2-ene 3, 777–778, 779, 784–785	
1-Phospha-bicyclo[2.2.1]heptane 12, 552–553		C ₄ S-C ₄ Se Selenolo[2,3-b]thiophene 3, 992	
1-Phospha-bicyclo[2.2.1]hepta-2,5-diene 3, 1067–1068, 1069; 12, 553		C ₄ Ge-C ₅ 2,4,5,6-Tetrahydro-2-germa-pentalene 3, 1149–1179	
1-Phospha-bicyclo[2.2.1]hept-2-ene 3, 1070, 1071, 1116		C ₄ Si-C ₄ Si 1,6-Dihydro-1,6-disila-pentalene 3, 1211–1212	
7-Phospha-bicyclo[2.2.1]hepta-2,5-diene 1, 476; 2, 896; 3, 1093–1094, 1116		C ₄ Si-C ₅ 2,4,5,6-Tetrahydrocyclopenta[c]silole 3, 1149–1179	
7-Phospha-bicyclo[2.2.1]hept-2-ene 3, 1112, 1113, 1116		C ₄ Sn-C ₅ 2,4,5,6-Tetrahydrocyclopenta[c]stannole 3, 1149–1179	

5,6

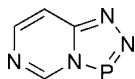
CNO₂Si-C₄NO
1,3,6-Trioxa-3a-aza-2-sila-indene
11, 819–846



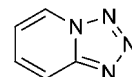
Tetrazolo[1,5-c]pyrimidine
11, 819–846



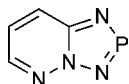
CN₃P-C₄N₂
1,2,3a,5-Tetraaza-3-phospha-indene
11, 819–846



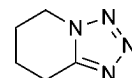
CN₄-C₅N
Tetrazolo[1,5-a]pyridine
7, 76; 6, 257–423



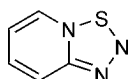
1,3,3a,4-Tetraaza-2-phospha-indene
11, 819–846



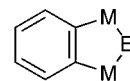
5,6,7,8-Tetrahydro-tetrazolo
[1,5-a]pyridine
6, 343f



CN₃S-C₅N
2*H*-[1,2,3,5]Thiatriazolo
[5,4-*a*]pyridine
6, 493

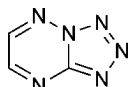


C₂(E)(M₂)-C₆
3,4-Benzo-1-hetero-2,
5-metalla-cyclopentenes
6, 691–737

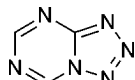


M = Al, In, Ga, Ge, Sn, Pb
E = N, P, O S, Se, Te

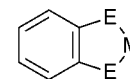
CN₄-C₃N₃
Tetrazolo[1,5-b][1,2,4]triazine
11, 909–918



Tetrazolo[5,1-f][1,3,5]triazine
11, 909–918

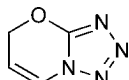


C₂(E₂)(M)-C₆
4,5-Benzo-1,3-dihetera-
2-metalla-cyclopentenes
6, 691–737

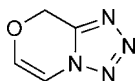


M = Al, In, Ga, Ge, Sn, Pb
E = N, P, O S, Se, Te

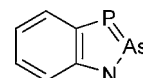
CN₄-C₄NO
5*H*-Tetrazolo[5,1-b][1,3]oxazine
11, 819–846



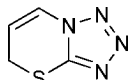
8*H*-Tetrazolo[5,1-c][1,4]oxazine
11, 819–846



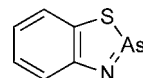
C₂AsNP-C₆
1*H*-1,3,2-Benzaazaphospharsole
6, 604f



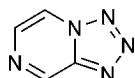
CN₄-C₄NS
7*H*-Tetrazolo[5,1-b][1,3] thiazine
11, 819–846



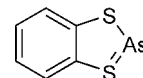
C₂AsNS-C₆
1,3,2-Benzazathiarsole
6, 604f



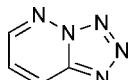
CN₄-C₄N₂
Tetrazolo[1,5-a]pyrazine
11, 819–846



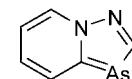
1,3,2-Benzodithiarsole
6, 604f



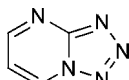
Tetrazolo[1,5-b]pyridazine
11, 819–846



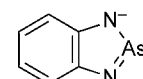
C₂AsN₂-C₅N
1*H*-1,2,4-Diazaarsolo[1,5-*a*]pyridines
6, 604f



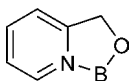
Tetrazolo[1,5-a]pyrimidine
11, 819–846



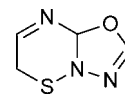
C₂AsN₂-C₆
1,3,2-Benzodiazaarsolide
6, 604f



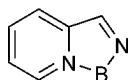
C₂BNO-C₅N
1,3-Dihydro-[1,3,2]oxazaborolo
[3,4-a]pyridine
11, 605



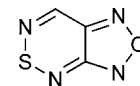
C₂N₂O-C₃N₂S
5,7a-Dihydro-1-oxa-4-thia-3,
3a,7-Triaza-indene
11, 847-893



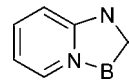
C₂BN₂-C₅N
1H-2,7a-Diaza-1-bora-indene
11, 589-627, 604



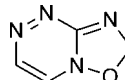
3H-[1,2,5]Oxadiazolo[3,4-c]
[1,2,6]thiadiazine
10, 703-712



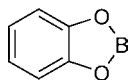
1,3a-Diaza-3-bora-indan
11, 605



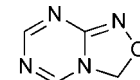
C₂N₂O-C₃N₃
2H-3-Oxa-1,3a,6,7-tetraaza-indene
11, 847-893



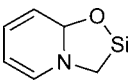
C₂BO₂-C₆
1,3,2-Benzodioxaborole
6, 620, 621



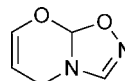
3H-[1,2,4]Oxadiazolo[4,3-a]
[1,3,5]triazine
11, 847-893



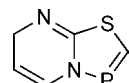
C₂NOSi-C₅N
2,3-Dihydro-7aH-1-oxa-
3a-aza-2-sila-indene
11, 606



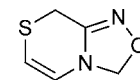
C₂N₂O-C₄NO
5H-[1,2,4]Oxadiazolo[5,4-b]
[1,3]oxazine
11, 671-763



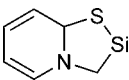
C₂NPS-C₄N₂
6H-1-Thia-3a,7-diaza-
3-phospha-indene
11, 671-763



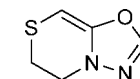
C₂N₂O-C₄NS
8H-[1,2,4]Oxadiazolo[3,4-c]
[1,4]thiazine
11, 671-763



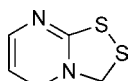
C₂NSSi-C₅N
2,3-Dihydro-7aH-1-thia-3a-aza-
2-sila-indene
11, 606



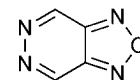
4,5-Dihydro-1-oxa-6-thia-3,
3a-Diaza-indene
11, 671-763



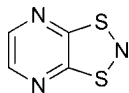
C₂NS₂-C₄N₂
5H-[1,2,4]Dithiazolo[4,3-a]pyrimidine
11, 671-763



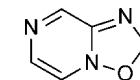
C₂N₂O-C₄N₂
2H-1,2,4-Oxadiazolo[2,3-b]
pyridazine
5, 343, 348; 6, 545f, 10, 684, 684



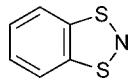
[1,2,3]Dithiazolo[4,5-b]pyrazine
6, 52, 52-53, 55



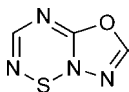
2H-[1,2,4]Oxadiazolo[2,3-a]pyrazine
11, 671-763



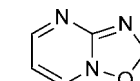
C₂NS₂-C₆
Benzo[1,3,2]dithiazole
6, 37-59



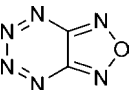
C₂N₂O-C₂N₃S
1-Oxa-4-thia-3,3a,5,7-tetraaza-indene
11, 909-918



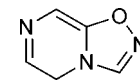
2H-[1,2,4]Oxadiazolo[2,3-a]
pyrimidine
11, 671-763

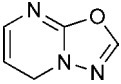
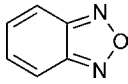
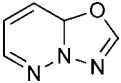
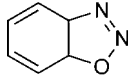
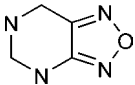
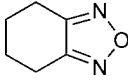
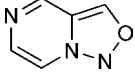
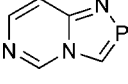
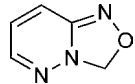
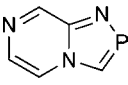
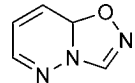
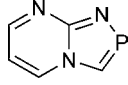
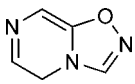
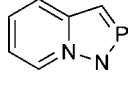
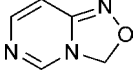
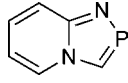
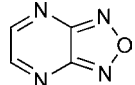
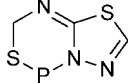
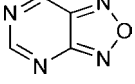
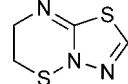
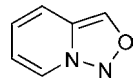
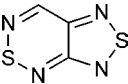
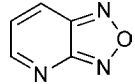
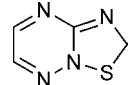
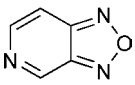


C₂N₂O-C₂N₄
2-Oxa-1,3,4,5,6,7-hexaaza-indene
10, 703-712



4H-1-Oxa-2,3a,6-triaza-indene
11, 671-763

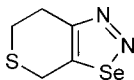


5H-[1,3,4]Oxadiazolo[3,2-a]pyrimidine 11, 671–763		C ₂ N ₂ O-C ₆ Benzofurazan 5, 315–395; 8, 313–314	
7aH-1-Oxa-3,3a,4-triaza-indene 11, 671–763		1,2,3-Benzoxadiazole 5, 225, 5, 232, 5, 233	
4,5,6,7-Tetrahydro-[1,2,5]oxadiazolo [3,4-d]pyrimidine 5, 332, 373, 10, 690f, 691f		4,5,6,7-Tetrahydro-benzo [1,2,5]oxadiazole 5, 354–355	
[1,2,3]Oxadiazolo[3,4-a]pyrazine 11, 671–763		C ₂ N ₂ P-C ₄ N ₂ 1,3a,5-Triaza-2-phospha-indene 11, 671–763	
[1,2,4]Oxadiazolo[4,3-b]pyridazine 11, 671–763		1,3a,6-Triaza-2-phospha-indene 11, 671–763	
7aH-1-Oxa-2,3a,4-triaza-indene 11, 671–763		[1,4,2]Diazaphospholo[4,5-a]- pyrimidine 11, 671–763	
4H-1-Oxa-2,3a,6-triaza-indene 11, 671–763		C ₂ N ₂ P-C ₅ N 1H-1,7a-Diaza-2-phospha-indene 11, 589–627, 604	
[1,2,4]Oxadiazolo[4,3-c]pyrimidine 11, 671–763		[1,4,2]Diazaphospholo[4,5-a]pyridine 11, 599	
[1,2,5]Oxadiazolo[3,4-b] pyrazine 10, 684		C ₂ N ₂ S-C ₂ N ₂ PS 6H-1,5-Dithia-3,3a, 7-triaza-4-phospha-indene 11, 909–918	
[1,2,5]Oxadiazolo[3,4-d] pyrimidine 5, 326, 333–334, 364f, 10, 690		C ₂ N ₂ S-C ₃ N ₂ S 5,6-Dihydro-1,4-dithia-3,3a, 7-triaza-indene 11, 847–893	
C ₂ N ₂ O-C ₅ N 1H-[1,2,3]Oxadiazolo[3,4-a]pyridine 5, 222–223		3H-[1,2,5]Thiadiazolo[3,4-c] [1,2,6]thiadiazine 10, 703–712	
[1,2,5]Oxadiazolo[3,4-b] pyridine 5, 362, 10, 511–524		C ₂ N ₂ S-C ₃ N ₃ 2H-3-Thia-1,3a,4,7-tetraza-indene 11, 847–893	
[1,2,5]Oxadiazolo[3,4-c] pyridine 10, 511–524			

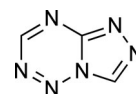
7aH-1-Thia-3,3a,5,6-tetraaza-indene 11, 847–893		[1,2,4]Thiadiazolo[2,3-a]pyridine 11, 589–627	
8aH-[1,3,4]Thiadiazolo[2,3-c] [1,2,4]triazine 11, 847–893		[1,2,5]Thiadiazolo[3,4-b] pyridine 10, 511–524	
8aH-[1,3,4]Thiadiazolo[3,2-a] [1,3,5]triazine 11, 847–893		[1,2,5]Thiadiazolo[3,4-c] pyridine 10, 511–524	
C ₂ N ₂ S-C ₄ NO 7H-6-Oxa-2-thia-1,3a-diaza-indene 11, 671–763		[1,3,4]Thiadiazolo[3,2-a]pyridine 11, 589–627	
C ₂ N ₂ S-C ₄ NS 7H-2,6-Dithia-1,3a-diaza-indene 11, 671–763		C ₂ N ₂ S-C ₆ 1,2,3-Benzothiadiazole 5, 467–486	
6,7-Dihydro-2H,5H-[1,2,4] thiadiazolo[3,2-b][1,3]thiazine 11, 671–763		2,1,3-Benzothiadiazole 5, 515–565; 6, 568f; 6, 568f	
6,7-Dihydro-2H,5H-[1,2,4] thiadiazolo[3,2-b][1,3]thiazine 11, 671–763		1,3-Dihydro-benzo[1,2,5]thiadiazole 5, 550–800	
C ₂ N ₂ S-C ₄ N ₂ 4,5,6,7-Tetrahydro-[1,2,5] thiadiazolo[3,4-d]pyrimidine 5, 555, 10, 692		C ₂ N ₂ Se-C ₃ N ₂ S 3H-5-Thia-2-selena- 1,3,4,6-tetraaza-indene 10, 703–712	
2,3,6,7-Tetrahydro-5H-[1,2,4] thiadiazolo[4,5-a]pyrimidine 5, 496		C ₂ N ₂ Se-C ₃ N ₃ 1,3,3a,4-Tetrahydro-2-selena-1,3,4, 5,7-pentaaza-indene 10, 693, 693	
5H-[1,3,4]Thiadiazolo[3,2-a]pyrimidine 11, 671–763		C ₂ N ₂ Se-C ₄ N ₂ 5H-[1,3,4]Selenadiazolo[3,2-a]- pyrimidine 11, 671–763	
7H-[1,2,4]Thiadiazolo[4,5-a]pyrimidine 11, 671–763		C ₂ N ₂ Se-C ₅ N [1,2,5]Selenadiazolo[3,4-b] pyridine 6, 568–569, 10, 511–524	
6H-1-Thia-3,3a,5-triaza-indene 11, 671–763		[1,2,5]Selenadiazolo[3,4-c] pyridine 6, 568–569, 10, 511–524	
C ₂ N ₂ S-C ₅ N 3λ ⁴ -[1,2,4]Thiadiazolo[2,3-a] pyridine 11, 607		C ₂ N ₂ Se-C ₅ O 6,7-Dihydro-4H-5-oxa-3-selena- 1,2-diaza-indene 6, 562f	

C₂N₂Se-C₅S

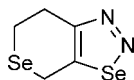
6,7-Dihydro-4H-5-thia-3-selena-
1,2-diaza-indene
6, 562*f*



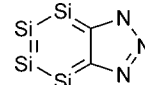
1,2,4-Triazolo[4,3-*c*] [1,2,3,5]tetrazine

C₂N₂Se-C₅Se

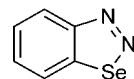
6,7-Dihydro-4H-5-selena-3-selena-
1,2-diaza-indene
6, 562*f*

C₂N₃-C₂Si

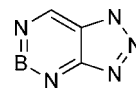
1H-[1,2,3,4]Tetrasilino[5,6-*d*]
[1,2,3]triazole
10, 703–712

C₂N₂Se-C₆

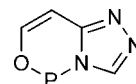
1,2,3-Benzoselenadiazole
6, 549*f*; 6, 552*f*; 6, 557–558;
6, 562*f*; 6, 566*f*

C₂N₃-C₃BN₂

1H-[1,2,3]Triazolo[4,5-*d*]
[1,3,2]diazaborinine
10, 703–712

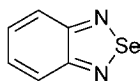
C₂N₃-C₃NOP

5-Oxa-1,2,3a-triaza-4-phospha-indene
11, 847–893

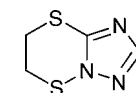


2,1,3-Benzoselenadiazole

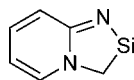
6, 543–544; 6, 544; 6, 545*f*; 6,
552*f*; 6, 552; 6, 558*f*; 6, 560*f*;
6, 568*f*; 6, 568–569

C₂N₃-C₃NS₂

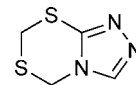
5,6-Dihydro-4,7-dithia-
1,3,3a-triaza-indene
11, 847–893

C₂N₂Si-C₅N

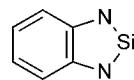
2,3-Dihydro-[1,4,2]diazasilolo
[4,5-*a*]pyridine
11, 606



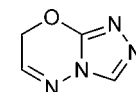
5,7-Dithia-1,2,3a-triaza-indene
11, 847–893

C₂N₂Si-C₆

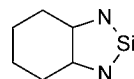
2,3-Dihydro-1H-benzo[1,3,2]
diazasilole
6, 655–690

C₂N₃-C₃N₂O

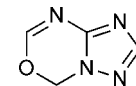
6H-7-Oxa-1,2,3a,4-tetraaza-indene
11, 847–893



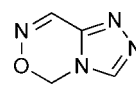
Octahydro-benzo[1,3,2]diazasilole
6, 664



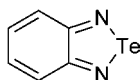
5-Oxa-1,3,3a,7-tetraaza-indene
11, 847–893



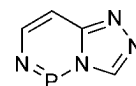
5-Oxa-1,2,3a,6-tetraaza-indene
11, 847–893

C₂N₂Te-C₆

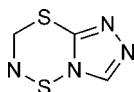
2,1,3-Benzotelluradiazole
6, 569*f*

C₂N₃-C₃N₂P

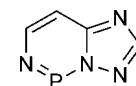
1,2,3a,5-Tetraaza-4-phospha-indene
11, 847–893

C₂N₃-C₂N₂S₂

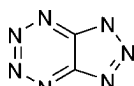
5,6-Dihydro-4,7-dithia-1,2,3a,
5-tetraaza-indene
11, 909–918



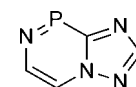
1,3,3a,5-Tetraaza-4-phospha-indene
11, 847–893

C₂N₃-C₂N₄

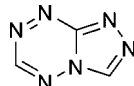
1,2,3-Triazolo[4,5-*c*]-1,2,3,4-
tetrazine
10, 703–712



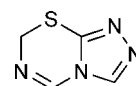
1,3,3a,6-Tetraaza-7-phospha-indene
11, 847–893



1,2,4-Triazolo[4,3-*b*] [1,2,4,5]tetrazine
11, 909–918

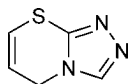
C₂N₃-C₃N₂S

6H-7-Thia-1,2,3a,5-tetraaza-indene
11, 847–893

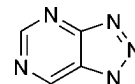


6H-7-Thia-1,3,3a,5-tetraaza-indene 11, 847-893		C ₂ N ₃ -C ₃ N ₃ [1,2,4]Triazolo[1,5-b] [1,2,4]triazine 11, 847-893	
7H-[1,2,4]Triazolo[3,4-b] [1,3,4]thiadiazine 11, 847-893		[1,2,4]Triazolo[1,5-d] [1,2,4]triazine 11, 847-893	
2,3-Dihydro-[1,2,3]triazolo[4,5-c] [1,2,6]thiadiazine 10, 703-712		[1,2,4]Triazolo[3,4-f][1,2,4] triazine 11, 847-893	
5-Thia-1,3,3a,7-tetraaza-indene 11, 847-893		[1,2,4]Triazolo[3,4-f][1,2,4]triazine 11, 847-893	
5-Thia-1,3,3a,7-tetraaza-indene 9, 504		[1,2,4]Triazolo[5,1-c][1,2,4]triazine 11, 847-893	
C ₂ N ₃ -C ₃ N ₃ 1H-[1,2,3]Triazolo[4,5-d][1,2,3]triazine 10, 703-712		[1,2,4]Triazolo[5,1-c][1,2,4]triazine 11, 847-893	
1,2,3a,4,5-Pentaaza-indene 11, 847-893		C ₂ N ₃ -C ₄ NO 6H-7-Oxa-1,2,7a-triaza-indene 11, 671-763	
1,2,5,7,7a-Pentaaza-indene 11, 847-893		5-Oxa-1,3,3a-triaza-indene 11, 671-763	
1,2,4-Triazolo[3,4-c][1,2,4] triazine 11, 847-893		4H-[1,2,3]Triazolo[5,1-c][1,4]oxazine 11, 671-763	
1,2,4-Triazolo[4,3-b][1,2,4] triazine 11, 847-893		8H-[1,2,4]Triazolo[3,4-c][1,4]oxazine 11, 671-763	
1,2,4-Triazolo[4,3-d][1,2,4] triazine 11, 847-893		C ₂ N ₃ -C ₄ NS 5H-[1,2,4]Triazolo[5,1-b] [1,3]thiazine 11, 671-763	
1,2,4-Triazolo[4,3-a][1,3,5] triazine 11, 847-893		8H-[1,2,4]Triazolo[3,4-c][1,4]thiazine 11, 671-763	
[1,2,4]Triazolo[1,5-a] [1,3,5]triazine 11, 847-893		7H-6-Thia-1,3,3a-triaza-indene 11, 671-763	

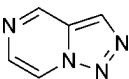
5H-[1,2,4]Triazolo[3,4-b][1,3]thiazine
11, 671–763



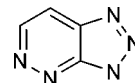
1H-1,2,3-Triazolo[4,5-d] pyrimidine
10, 683f



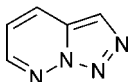
C₂N₃-C₄N₂
[1,2,3]Triazolo[1,5-a]pyrazine
11, 671–763



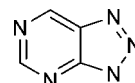
3H-[1,2,3]Triazolo[4,5-c]pyridazine
10, 689



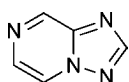
[1,2,3]Triazolo[1,5-b]pyridazine
6, 337f



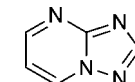
3H-[1,2,3]Triazolo[4,5-d]pyrimidine
10, 689f, 689



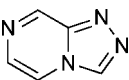
[1,2,4]Triazolo[1,5-a]pyrazine
11, 671–763



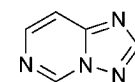
[1,2,4]Triazolo[1,5-a] pyrimidine
11, 671–763



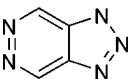
1,2,4-Triazolo[4,3-a]pyrazine
11, 671–763



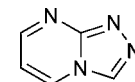
[1,2,4]Triazolo[1,5-c] pyrimidine
11, 671–763



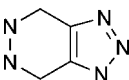
1H-1,2,3-Triazolo[4,5-d] pyridazine
10, 681, 681



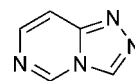
1,2,4-Triazolo[4,3-a] pyrimidine
11, 671–763



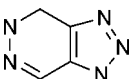
4,5,6,7-Tetrahydro-1H-[1,2,3]
triazolo[4,5-d]pyridazine
10, 682f



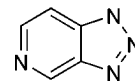
1,2,4-Triazolo[4,3-c] pyrimidine
11, 671–763



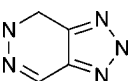
4,5-Dihydro-1H-[1,2,3]triazolo
[4,5-d]pyridazine
10, 683f



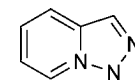
C₂N₃-C₅N
1H-[1,2,3]Triazolo[4,5-c] pyridine
10, 511–524



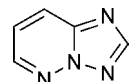
4,5-Dihydro-2H-[1,2,3]triazolo
[4,5-d]pyridazine
8, 45



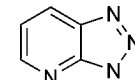
1H-[1,2,3]Triazolo[1,5-a]pyridine
11, 589–627; 6, 551f



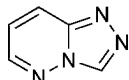
[1,2,4]Triazolo[1,5-b] pyridazine
11, 671–763



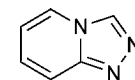
3H-[1,2,3]Triazolo[4,5-b]pyridine
10, 511–524



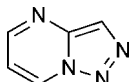
1,2,4-Triazolo[4,3-b]pyridazine
11, 671–763



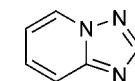
1,2,4-Triazolo[4,3-a]pyridine
11, 589–627



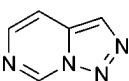
[1,2,3]Triazolo[1,5-a] pyrimidine
11, 671–763



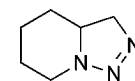
[1,2,4]Triazolo[1,5-a]pyridine
11, 589–627



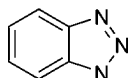
[1,2,3]Triazolo[1,5-c]pyrimidine
11, 671–763



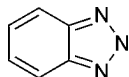
3,3a,4,5,6,7-Hexahydro-[1,2,3]
triazolo[1,5-a]pyridine
11, 600, 589–627



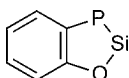
C₂N₃-C₆
1H-Benzotriazole
5, 1–158



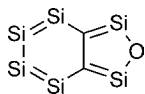
2H-Benzotriazole
5, 1–158



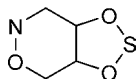
C₂OPSi-C₆
1-Oxa-3-phospha-2-sila-indan
6, 661



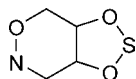
C₂OSi₂-C₂Si₄
2-Oxa-1,3,4,5,6,7-hexasila-indene
10, 703–712



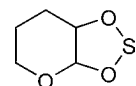
C₂O₂S-C₄NO
Tetrahydro-1,3,5-trioxa-2-thia-
6-aza-indene
6, 155*t*



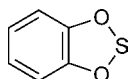
3a*H*-[1,3,2]Dioxathiole
[4,5-*d*][1,2]oxazine
6, 155*t*



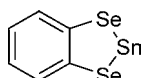
C₂O₂S-C₅O
Tetrahydro-[1,3,2]dioxathiole
[4,5-*b*]pyran
6, 154; 6, 170*t*; 6, 173*t*



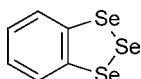
C₂O₂S-C₆
1,3,2-Benzodioxaphosphole
6, 161*t*



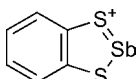
C₂Se₂Sn-C₆
1,3-Diselena-2-stanna-indan
6, 575*f*



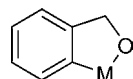
C₂Se₃-C₆
Benzotriselenole
6, 527*t*; 6, 557; 6, 575*f*



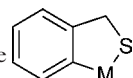
C₂S₂Sb-C₆
1,3,2-Benzodithiastibolium cation
6, 604*f*



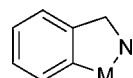
C₃(M)O-C₆
1,3-Dihydrobenzo[*c*][1,2]
oxametallabole
4, 1119–1153



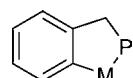
C₃(M)S-C₆
1,3-Dihydrobenzo[*c*][1,2]thiametallabole
4, 1119–1153



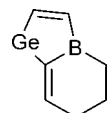
C₃(M)N-C₆
2,3-Dihydro-1H-benzo[*c*][1,2]
azametallabole
4, 1119–1153



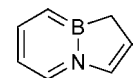
C₃(M)P-C₆
2,3-Dihydro-1H-benzo[*c*][1,2]
phosphametallabole
4, 1119–1153



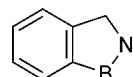
C₃BGe-C₅B
1,4,5,6-Tetrahydro-1-germa-3a-bora-
indene
12, 573–633



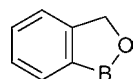
C₃BN-C₄BN
1H-3a-Aza-7a-bora-indene
4, 1204, 1204



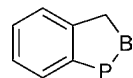
C₃BN-C₆
2,3-Dihydro-1H-benzo[*c*][1,2]-
azaborole
4, 1189–1224



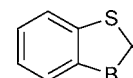
C₃BO-C₆
1,3-Dihydro-benzo[*c*][1,2]oxaborole
4, 1189–1224



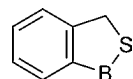
C₃BP-C₆
1-Phospha-2-bora-indan
4, 1202



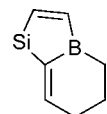
C₃BS-C₆
1-Thia-3-bora-indan
4, 1189–1224



2-Thia-1-bora-indan
4, 1189–1224

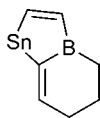


C₃BSi-C₅B
1,4,5,6-Tetrahydro-1-sila-3a-bora-indene
12, 573–633

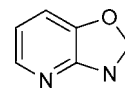


C₃BSn-C₅B

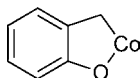
1,4,5,6-Tetrahydro-1-stanna-
3a-bora-indene
12, 573–633



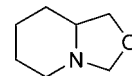
2,3-Dihydro-oxazolo[4,5-b]pyridine
10, 474

C₃CoO-C₆

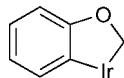
4,5-Benzo-1-oxa-2-cobalta-
cyclopentene
4, 1244–1245, 1249



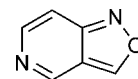
Hexahydro-oxazolo[3,4-a]pyridine
11, 409–499

C₃IrO-C₆

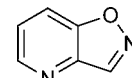
2,3-Dihydrobenzo[d][1,3]oxairidabole
4, 1271–1304



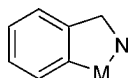
Isoxazolo[4,3-c]pyridine
7, 135



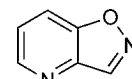
Isoxazolo[4,5-b]pyridine
7, 278

C₃N(X)-C₆

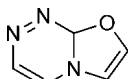
2,3-Dihydro-1H-benzo[c][1,2]
azametallabole
4, 1119–1153



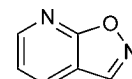
Isoxazolo[4,5-b]pyridine
10, 476

C₃NO-C₃N₃

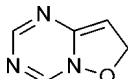
7aH-1-Oxa-3a,6,7-triaza-indene
11, 765–817



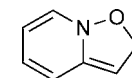
Isoxazolo[5,4-b]pyridine
10, 475



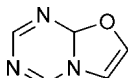
7H-Isoxazolo[2,3-a][1,3,5]triazine
11, 765–817



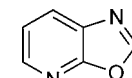
2H-Isoxazolo[2,3-a]pyridine
11, 409–499



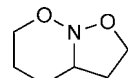
8aH-Oxazolo[3,2-a][1,3,5]triazine
11, 765–817



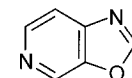
Oxazolo[5,4-b]pyridine
10, 599–659

C₃NO-C₄NO

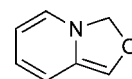
Hexahydro-isoxazolo[2,3-b][1,2]oxazine
4, 403



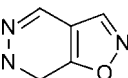
Oxazolo[5,4-c]pyridine
4, 523



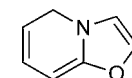
3H-Oxazolo[3,4-a]pyridine
11, 409–499

C₃NO-C₄N₂

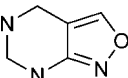
6,7-Dihydro-isoxazolo[4,5-d]pyridazine
4, 432–433



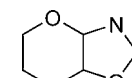
5H-Oxazolo[3,2-a]pyridine
11, 409–499



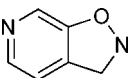
4,5,6,7-Tetrahydro-isoxazolo
[3,4-d]pyrimidine
4, 381–382



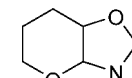
C₃NO-C₅O
Hexahydro-pyrano[2,3-d]oxazole
6, 170f

C₃NO-C₅N

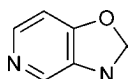
2,3-Dihydro-isoxazolo[5,4-c]pyridine
10, 475



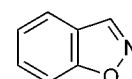
Hexahydro-2H-pyrano[2,3-d]oxazole
6, 170f

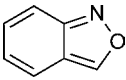
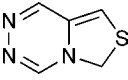
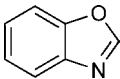
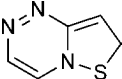
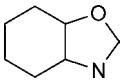
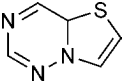
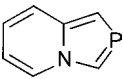
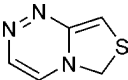
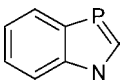
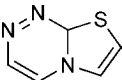
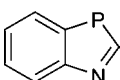
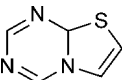
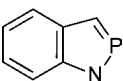
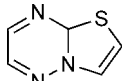
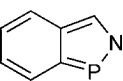
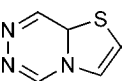
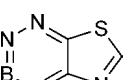
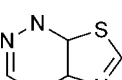
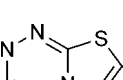
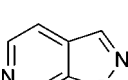
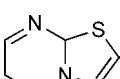
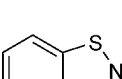
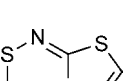
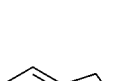
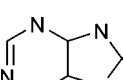
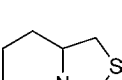


2,3-Dihydro-oxazolo[4,5-b]pyridine
4, 523



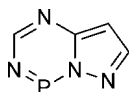
C₃NO-C₆
1,2-Benzisoxazole
4, 365–485; 5, 215f



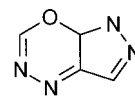
2,1-Benzisoxazole 4, 365–485		2-Thia-3a,5,6-triaza-indene 11, 765–817	
Benzoxazole 4, 487–543; 7, 79f		2H-1-Thia-4,5,7a-triaza-indene 11, 765–817	
Octahydro-benzooxazole 1, 37		7aH-1-Thia-3a,4,6-triaza-indene 11, 765–817	
C ₃ NP-C ₅ N [1,3]Azaphospholo[1,5-a]pyridine 4, 1174, 1175, 1176, 1180		Thiazolo[4,3-c][1,2,4]triazine 11, 765–817	
C ₃ NP-C ₆ 1H-Benzo[1,3]azaphosphole 4, 1171–1172		8aH-Thiazolo[2,3-c][1,2,4]triazine 11, 765–817	
3H-Benzo[1,3]azaphosphole 4, 1172		8aH-Thiazolo[3,2-a][1,3,5]triazine 11, 765–817	
1H-Benzo[d][1,2]azaphosphole 4, 1155–1167		8aH-Thiazolo[3,2-b][1,2,4]triazine 11, 765–817	
2H-Benzo[c][1,2]azaphosphole 4, 1155–1167		8aH-Thiazolo[3,2-d][1,2,4]triazine 11, 765–817	
C ₃ NS-C ₂ BN ₂ O 1,3-Thiazolo[5,4-c][1,3,4,2] oxadiazaborolium 10, 703–712		1,4,4a,7a-Tetrahydro-thiazolo[4,5-c] [1,2,4]triazine 10, 692f	
C ₃ NS-C ₂ N ₄ 2H-Thiazolo[3,2-b][1,2,4,5]tetrazine 11, 895–908		C ₃ NS-C ₄ N ₂ 1-Thia-2,6,7-triaza-indene 4, 607, 10, 599–659	
C ₃ NS-C ₃ N ₂ S 5,7a-Dihydro-1,4-dithia-3a,7-diaza- indene 11, 765–817		C ₃ NS-C ₅ N 2,3-Dihydro-isothiazolo[4,5-b]- pyridine 10, 478	
Thiazolo[2,3-c][1,2,4]thiadiazine 11, 765–817		2,3-Dihydro-isothiazolo[5,4-b]- pyridine 10, 477	
C ₃ NS-C ₃ N ₃ 1,4,4a,5,6,7a-Hexahydro-thiazolo- [4,5-c][1,2,4]triazine 10, 693f		Hexahydro-thiazolo[3,4-a]pyridine 11, 409–499	

1λ ⁴ -Isothiazolo[2,3-a]pyridine 11, 409–499		7aH-1-Selena-3a,5,6-triaza-indene 11, 765–817	
Thiazolo[3,4-a]pyridine 11, 409–499		8aH-Selenazolo[3,2-b][1,2,4]triazine 11, 765–817	
Thiazolo[4,5-b]pyridine 10, 476		C ₃ NSe-C ₄ N ₂ 4,5,6,7-Tetrahydro-isoselenazolo [4,3-d]pyrimidine 4, 780	
5H-Thiazolo[3,2-a]pyridine 11, 409–499		C ₃ NSe-C ₅ N 2-Selena-1,7-diaza-indan 4, 781f	
8aH-Thiazolo[3,2-a]pyridine 11, 409–499		Selenazolo[5,4-b]pyridine 4, 791–821	
C ₃ NS-C ₆ Benzothiazole 5, 215f; 6, 161f; 6, 459f; 6, 460f; 8, 632–634, 663; 9, 252; 4, 635–754		C ₃ NSe-C ₆ 1,2-Benzisoselenazole 4, 635–754	
1,2-Benzisothiazole 4, 545–633		Benzoselenazole 4, 791–821	
2,1-Benzisothiazole 4, 545–633		Benzoselenazole 4, 1119–1153	
1,3-Dihydro-benzo[c]isothiazole 4, 545–633		2,3-Dihydro-benzo[d]isoselenazole 4, 635–754, 4, 1091–1117, 1096	
2,3-Dihydro-benzo[d]isothiazole 4, 545–633		C ₃ NTe-C ₆ Benzo[d]isotellurazole 4, 1095	
2,3-Dihydro-benzothiazole 4, 545–633		Benzotellurazole 4, 1119–1153	
Octahydro-benzothiazole 6, 83		4,5,6,7-Tetrahydro-benzo[d] isotellurazole 4, 1099, 1112	
C ₃ NSe-C ₃ N ₃ 7aH-1-Selena-3a,6,7-triaza-indene 11, 765–817		C ₃ NiO-C ₆ 3,4-Benzo-1-oxa-2-nickela- cyclopentene 4, 1245	

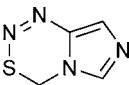
C₃N₂-C₂N₃P
1,4,6,7a-Tetraaza-7-phospha-indene
11, 895–908



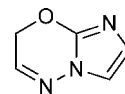
C₃N₂-C₃N₂O
4a,5-Dihydro-pyrazolo[4,3-c][1,3,4]
oxadiazine
10, 685f



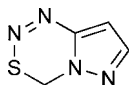
C₃N₂-C₂N₃S
5-Thia-2,3a,6,7-tetraaza-indene
11, 895–908



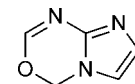
2H-Imidazo[2,1-b][1,3,4]
oxadiazine
11, 765–817



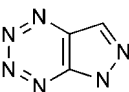
6-Thia-1,4,5,7a-tetraaza-indene
11, 895–908



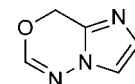
5-Oxa-1,3a,7-triaza-indene
11, 765–817



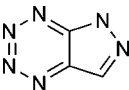
C₃N₂-C₂N₄
1H-1,2,4,5,6,7-Hexaaza-indene
9, 717



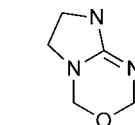
7H-6-Oxa-1,3a,4-triaza-indene
11, 765–817



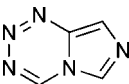
1H-1,2,4,5,6,7-Hexaaza-indene
10, 703–712



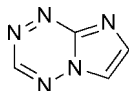
1,2,3,6-Tetrahydro-5-oxa-1,3a,
7-triaza-indene
9, 465, 469



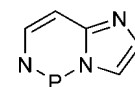
Imidazo[5,1-d][1,2,3,5]tetrazine
11, 895–908



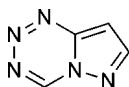
N-Imidazol-1-yl-formamidine
11, 895–908



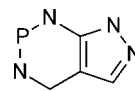
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4,5-Dihydro-1,3a,5-triaza-4-
phospha-indene
11, 765–817



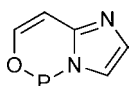
Pyrazolo[5,1-d][1,2,3,5]tetrazine
11, 895–908



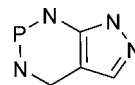
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[3,4-d][1,3,2]diazaphosphinine
10, 685f, 685f



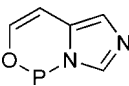
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11, 765–817



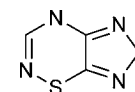
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11, 765–817



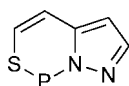
5-Oxa-2,3a-diaza-4-phospha-indene
11, 765–817



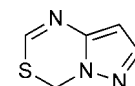
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4,6-Dihydro-imidazo[4,5-c]
[1,2,4]thiadiazine
9, 313



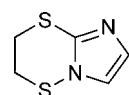
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6-Thia-1,7a-diaza-7-phospha-indene
11, 765–817



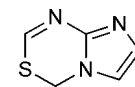
Pyrazolo[1,5-c][1,3,5]thiadiazine
11, 765–817



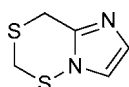
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5,6-Dihydro-4,7-dithia-1,3a-
diaza-indene
11, 765–817



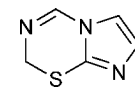
4H-Pyrazolo[5,1-c][1,3,5] thiadiazine
11, 765–817



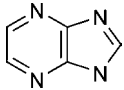
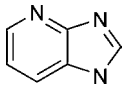
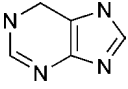
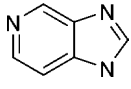
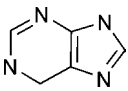
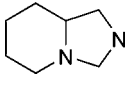
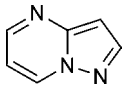
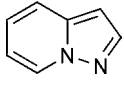
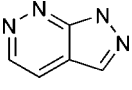
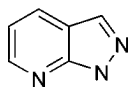
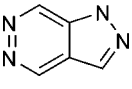
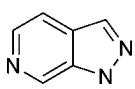
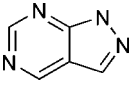
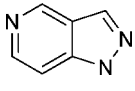
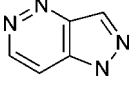
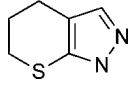
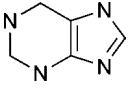
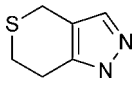
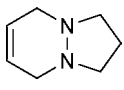
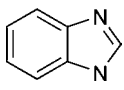
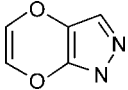
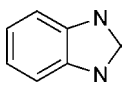
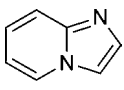
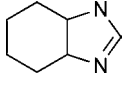
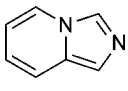
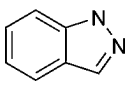
7H-4,6-Dithia-1,3a-diaza-
indene
11, 765–817



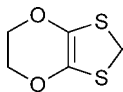
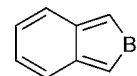
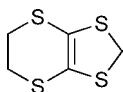
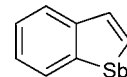
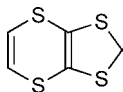
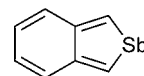
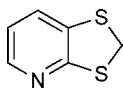
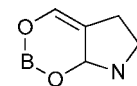
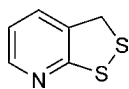
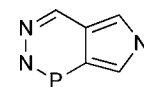
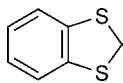
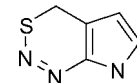
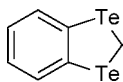
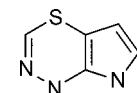
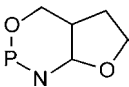
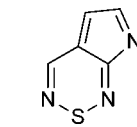
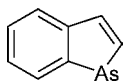
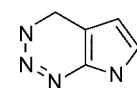
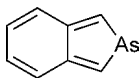
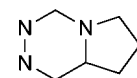
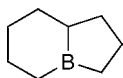
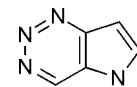
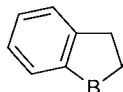
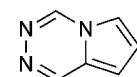
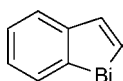
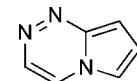
2H-Imidazo[2,1-b]-1,3,5- thiadiazine
11, 765–817



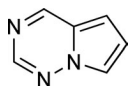
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5H-4-Thia-1,3a,7-triaza-indene 11, 765–817		Pyrazolo[1,5-b][1,2,4]triazine 11, 765–817	
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C ₃ N ₂ -C ₃ N ₃ 2,3-Dihydro-1H-pyrazolo[4,3-c] [1,2,4]triazine 10, 689f		Pyrazolo[1,5-d][1,2,4]triazine 11, 765–817	
4,7-Dihydro-3H-imidazo[4,5-d] [1,2,3]triazine 10, 680, 681		1H-Pyrazolo[4,3-c][1,2,4]triazine 10, 687f, 687, 688f; 6, 373	
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Imidazo[1,2-b][1,2,4]triazine 11, 765–817		C ₃ N ₂ -C ₄ NS Imidazo[4,5-d][1,3]thiazine 10, 599–659	
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1H-Imidazo[4,5-b]pyrazine 4, 219 <i>f</i> , 10, 599–659		1H-Imidazo[4,5-b]pyridine 10, 461; 11, 551–587	
6,7-Dihydro-1H-purine 10, 525–597, 10, 599–659		1H-Imidazo[4,5-c]pyridine 4, 219 <i>f</i> , 10, 465; 11, 551–587	
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1H-Pyrazolo[3,4-c]pyridazine 10, 599–659		1H-Pyrazolo[3,4-b]pyridine 4, 11–12, 10, 468	
1H-Pyrazolo[3,4-d]pyridazine 10, 599–659		1H-Pyrazolo[3,4-c]pyridine 10, 472	
1H-Pyrazolo[3,4-d]pyrimidine 10, 599–659		1H-Pyrazolo[4,3-c]pyridine 10, 472	
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2,3,5,8-Tetrahydro-1H-pyrazolo [1,2-a]pyridazine 4, 12		C ₃ N ₂ -C ₆ 1H-Benzimidazole 5, 480; 4, 143–364	
C ₃ N ₂ -C ₄ O ₂ 1H-[1,4]Dioxino[2,3-c]pyrazole 4, 58, 10, 599–659		2,3-Dihydro-1H-benzoimidazole 8, 314 <i>f</i>	
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Imidazo[1,5-a]pyridine 11, 409–499		1H-Indazole 4, 1–141	

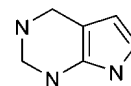
3H-Indazole 4, 1–141		C ₃ O ₂ -C ₅ O 6,8-Dioxa-bicyclo[3.2.1]octane 4, 841–891	
Octahydro-benzimidazole 4, 239–240		Tetrahydro-[1,3]dioxolo[4,5-c]pyran 6, 173 <i>t</i>	
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C ₃ OOs-C ₆ 4,5-Benzo-1-oxa-3-osma-cyclopentene 4, 1284		C ₃ P(X)-C ₆ 2,3-Dihydro-1H-benzo[c][1,2] phosphametallabole 4, 1119–1153	
C ₃ ORu-C ₆ 4,5-Benzo-1-oxa-2-rhuten- cyclopentene 4, 1245–1246		C ₃ PPt-C ₆ 4,5-Benzo-1-phospha-3-platina- cyclopentene 4, 1288–1289, 1291	
C ₃ OS-C ₆ Benzo[1,3]oxathiole 4, 841–891		C ₃ P ₂ -C ₆ 1H-Benzo[1,2]diphosphole 4, 1155–1167	
3H-Benzo[c][1,2]oxathiole 4, 823–839		C ₃ RuS-C ₆ 4,5-Benzo-1-thia-2-rhuten- cyclopentene 4, 1247, 1254–1255	
3H-Benzo[d][1,2]oxathiole 4, 823–839		C ₃ S(X)-C ₆ 1,3-Dihydrobenzo[c][1,2]thiameta- llabole 4, 1119–1153	
C ₃ OSe-C ₆ 3H-Benzo[c][1,2]oxaselenole 4, 1091–1117, 1095, 1100		C ₃ SSe-C ₆ 3H-Benzo[c][1,2]thiaselenole 4, 1111	
1-Oxa-3-selena-indan 4, 1139		C ₃ Se ₂ -C ₆ Benzo[1,3]diselenole 4, 1135; 6, 552 <i>f</i>	
C ₃ OSi-C ₆ 2,3-Dihydro-benzo[d][1,2]oxasilole 4, 1246		C ₃ Si ₂ -C ₆ 2,3-Dihydro-1H-benzo[1,3]disilole 4, 1277, 1291	
2,3-Dihydro-benzo[d][1,2]oxasilole 4, 1248		C ₃ S ₂ -C ₂ S ₄ 1,3λ ⁴ ; 4,5; 6,7-Hexathia-indene 10, 703–712	
C ₃ OTe-C ₆ 3H-Benzo[c][1,2]oxatellurole 4, 1091–1117, 1102, 1103			

C₃S₂-C₄O₂5,6-Dihydro-[1,3]dithiolo[4,5-b]
[1,4]dioxine
4, 955–10902*H*-Benzo[*c*]bismole
3, 1149–1179C₃S₂-C₄S₂5,6-Dihydro-[1,3]dithiolo[4,5-b]
[1,4]dithiine
4, 955–1090C₄Sb-C₆1*H*-Benzo[*b*]stibole
3, 1149–11791,3-Dithiolo[4,5-b][1,4]dithiin
4, 955–10902*H*-Benzo[*c*]stibole
3, 1149–1179C₃S₂-C₅N[1,3]Dithiolo[4,5-*b*]pyridine
10, 478C₄N-C₃BO₂1,2,3,7*a*-Tetrahydro-5,7-dioxa-
1-aza-6-bora-indene
10, 5043*H*-[1,2]Dithiolo[3,4-*b*]pyridine
10, 478C₄N-C₃N₂P4,5-Dihydro-2*H*-2,5,6-triaza-4-
phospha-indene
10, 503*f*C₃S₂-C₆1,3-Benzodithiole
4, 955–1090C₄N-C₃N₂S1,4-Dihydro-5-thia-1,6,7-triaza-indene
10, 502C₃Te₂-C₆Benzo[1,3]ditellurole
4, 11351,7-Dihydro-4-thia-1,6,7-triaza-indene
10, 502C₄-C₃NOPHexahydro-1,5-dioxa-7-aza-6-
phospha-indene
10, 502*f*Pyrrolo[2,3-*c*][1,2,6]thiadiazine
10, 504–505C₄As-C₆1*H*-Arsindole
3, 1149–1179C₄N-C₃N₃4,7-Dihydro-3*H*-pyrrolo[2,3-*d*]
[1,2,3]triazine
10, 5022*H*-Isoarsindole
3, 1149–1179Octahydro-pyrrolo[1,2-*d*][1,2,4]triazine
11, 634C₄B-C₅BOctahydro-borolo[1,2-*a*]borinine
12, 573–6335*H*-Pyrrolo[3,2-*d*][1,2,3]triazine
10, 502–503C₄B-C₆2,3-Dihydro-1*H*-benzo[*b*]borole
3, 1225–1241Pyrrolo[1,2-*d*][1,2,4]triazine
11, 629–644, 640C₄Bi-C₆1*H*-Benzo[*b*]bismole
3, 1149–1179Pyrrolo[2,1-*f*][1,2,4]triazine
11, 638

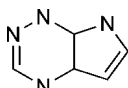
Pyrrolo[2,1-f][1,2,4]triazine
11, 629–644, 635, 635, 635, 636,
 636–637



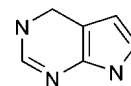
4,7-Dihydro-3H-pyrrolo[2,3-d]
 pyrimidine
10, 356



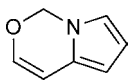
3a,4,7,7a-Tetrahydro-1H-1,4,6,7-
 tetraaza-indene
10, 505



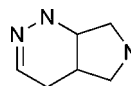
6,7-Dihydro-1H-pyrrolo
 [2,3-d]pyridazine
10, 353



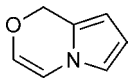
C₄N-C₄NO
 1H-Pyrrolo[1,2-c][1,3]oxazine
11, 501–549



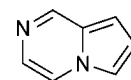
4,4a,5,6,7,7a-Hexahydro-1H-pyrrolo
 [3,4-c]pyridazine
10, 354



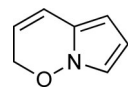
1H-Pyrrolo[2,1-c][1,4]oxazine
11, 501–549



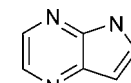
Pyrrolo[1,2-a]pyrazine
11, 501–549



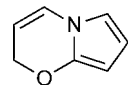
2H-Pyrrolo[1,2-b][1,2]oxazine
11, 501–549



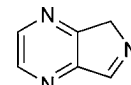
5H-Pyrrolo[2,3-b]pyrazine
10, 379



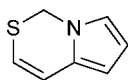
2H-Pyrrolo[2,1-b][1,3]oxazine
11, 501–549



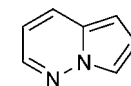
5H-Pyrrolo[3,4-b]pyrazine
10, 381



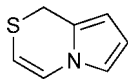
C₄N-C₄NS
 1H-Pyrrolo[1,2-c][1,3]thiazine
11, 501–549



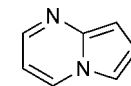
Pyrrolo[1,2-b]pyridazine
11, 501–549



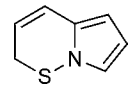
1H-Pyrrolo[2,1-c][1,4]thiazine
11, 501–549



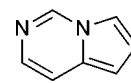
Pyrrolo[1,2-a]pyrimidine
11, 501–549



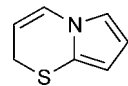
2H-Pyrrolo[1,2-b][1,2]thiazine
11, 501–549



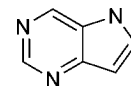
Pyrrolo[1,2-c]pyrimidine
11, 501–549



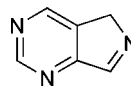
2H-Pyrrolo[2,1-b][1,3]thiazine
11, 501–549



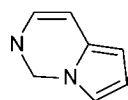
5H-Pyrrolo[3,2-d]pyrimidine
10, 370



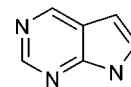
5H-Pyrrolo[3,4-d]pyrimidine
10, 378



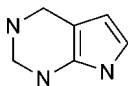
C₄N-C₄N₂
 1,2-Dihydro-pyrrolo[1,2-c]pyrimidine
3, 140f



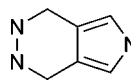
7H-Pyrrolo[2,3-d]pyrimidine
10, 356



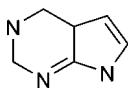
4,7-Dihydro-3H-pyrrolo[2,3-d]
 pyrimidine
10, 356



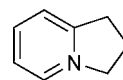
2,3,4,6-Tetrahydro-1H-pyrrolo
 [3,4-d]pyridazine
10, 355



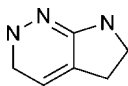
3,4,4a,5-Tetrahydro-2H-pyrrolo
[3,2-d]pyrimidine
10, 370



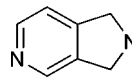
2,3-Dihydro-1H-indolizine
11, 367–408



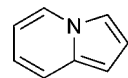
3,5,6,7-Tetrahydro-2H-pyrrolo
[2,3-c]pyridazine
10, 352



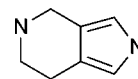
2,3-Dihydro-1H-pyrrolo[3,4-c]pyridine
7, 173–174, 10, 713–757



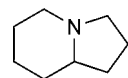
C₄N-C₅N
Indolizine
6, 180–181; 7, 121, 122; 11, 367–408



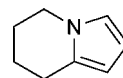
4,5,6,7-Tetrahydro-2H-pyrrolo
[3,4-c]pyridine
3, 327–328, 10, 713–757



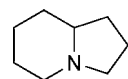
Octahydro-indolizine
1, 185*f*



5,6,7,8-Tetrahydro-indolizine
11, 367–408



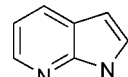
Octahydro-indolizine
11, 367–408; 11, 367–408



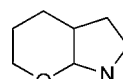
8-Azabicyclo[3.2.1]octane
10, 713–757



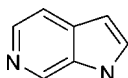
1H-Pyrrolo[2,3-b]pyridine
10, 287, 10, 713–757



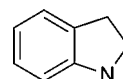
C₄N-C₅O
Octahydro-pyrano[2,3-b]pyrrole
1, 30, 10, 713–757



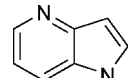
1H-Pyrrolo[2,3-c]pyridine
10, 287, 296, 305, 10, 713–757



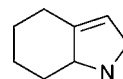
C₄N-C₆
2,3-Dihydro-1H-indole
3, 311, 312, 314,
314–315, 317–318; 3, 366–367



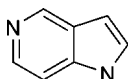
1H-Pyrrolo[3,2-b]pyridine
10, 287, 296, 305, 10, 713–757



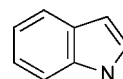
2,4,5,6,7,7a-Hexahydro-1H-indole
1, 26*f*



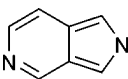
1H-Pyrrolo[3,2-c]pyridine
10, 287, 296, 305, 10, 713–757



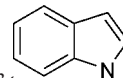
1H-Indole
3, 1–43; 3, 389–406; 3, 353–388; 5,
215*t*; 6, 173*t*; 7, 80–81, 87; 9, 257;
3, 45–268



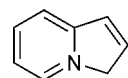
2H-Pyrrolo[3,4-c]pyridine
10, 287, 296, 305, 10, 713–757



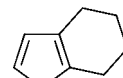
2H-Isoindole
3, 1–43; 3, 45–268; 3, 269–351; 6, 173*t*



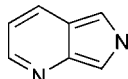
3H-Indolizine
11, 367–408



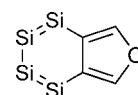
4,5,6,7-Tetrahydro-1H-indole
3, 305, 324–325; 3, 78



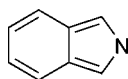
6H-Pyrrolo[3,4-b]pyridine
10, 287, 296, 305, 10, 713–757



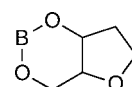
C₄O-C₂Si₄
2-Oxa-4,5,6,7-tetrasilindene
10, 703–712



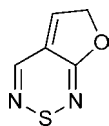
1,2,3,8a-Tetrahydro-indolizine
4, 504*f*; 11, 367–408



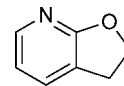
C₄O-C₃BO₂
Tetrahydro-furo[3,2-d]
[1,3,2]dioxaborinine
10, 503



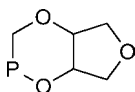
C₄O-C₃N₂S
2H-1-Oxa-6-thia-5,7-diaza-indene
10, 505



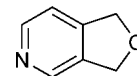
C₄O-C₅N
2,3-Dihydro-furo[2,3-b]pyridine
10, 288, 298, 309, 10, 713–757



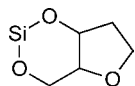
C₄O-C₃O₂P
Hexahydro-furo[3,4-c]
[1,4,2]dioxaphosphinine
10, 504



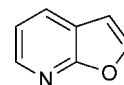
1,3-Dihydro-furo[3,4-c]pyridine
7, 54–55



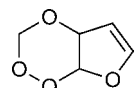
C₄O-C₃O₂Si
Tetrahydro-furo[3,2-d][1,3,2]dioxasiline
10, 503



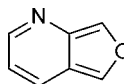
Furo[2,3-b]pyridine
10, 298, 309, 10, 713–757



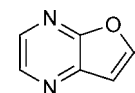
C₄O-C₃O₃
3a,7a-Dihydro-1,4,6,7-tetraoxa-indene
10, 504



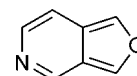
Furo[3,4-b]pyridine
10, 288, 298, 309, 10, 713–757



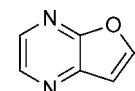
C₄O-C₄N₂
Furo[2,3-b]pyrazine
10, 381



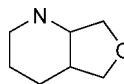
Furo[3,4-c]pyridine
10, 288, 298, 309, 10, 713–757



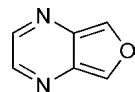
Furo[2,3-b]pyrazine
10, 392



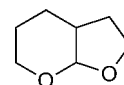
Octahydro-furo[3,4-b]pyridine
10, 288, 298, 309, 10, 713–757



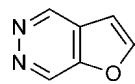
Furo[3,4-b]pyrazine
10, 393



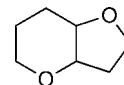
C₄O-C₅O
Hexahydro-furo[2,3-b]pyran
10, 293, 301, 317, 10, 713–757



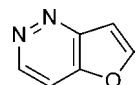
Furo[2,3-d]pyridazine
10, 382



Hexahydro-furo[3,2-b]pyran
10, 293, 301, 317, 10, 713–757



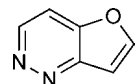
Furo[3,2-c]pyridazine
10, 382



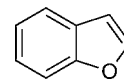
8-Oxa-bicyclo[3.2.1]oct-6-ene
3, 431, 434



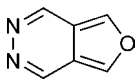
Furo[3,2-c]pyridazine
10, 383



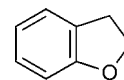
C₄O-C₆
Benzofuran
3, 389–406; 3, 407–496, 455;
3, 571–623; 6, 548f; 6, 562f



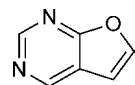
Furo[3,4-d]pyridazine
10, 383



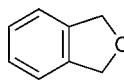
2,3-Dihydro-benzofuran
3, 468; 3, 497–569; 3, 571–623



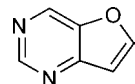
Furo[2,3-d]pyrimidine
10, 384



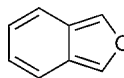
1,3-Dihydro-isobenzofuran
3, 389–406; 3, 473; 3, 497–569



Furo[3,2-d]pyrimidine
10, 391

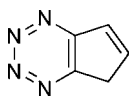
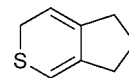
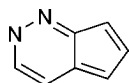


Isobenzofuran
3, 389–406; 3, 454; 3, 497–569,
551; 3, 571–623

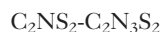


4,5,6,7-Tetrahydro-benzofuran 3, 413; 3, 508, 511, 514 <i>f</i> ; 3, 571–623		4H-1,7-Dithia-4,6-diaza-indene 10, 501 <i>f</i>	
4,5,6,7-Tetrahydro-isobenzofuran 3, 414 <i>f</i> ; 3, 514 <i>f</i> ; 3, 571–623		7H-1,4-Dithia-6,7-diaza-indene 10, 155	
C ₄ P-C ₃ P 1H-1,4-Diphospha-indene 3, 1091		7H-1,4-Dithia-6,7-diaza-indene 5, 482	
1-Phospha-bicyclo[3.2.1]octane 12, 552 <i>f</i>		7H-2,4-Dithia-5,7-diaza-indene 9, 313, 326	
C ₄ P-C ₆ 4,5,6,7-Tetrahydro-2H-isophosphindole 3, 1029–1147		C ₄ S-C ₃ N ₃ Thieno[2,3- <i>c</i>][1,2,4]triazine 10, 505	
C ₄ Pd-C ₆ 1H-1-Palladia-indene 3, 1287		C ₄ S-C ₄ NO 1,4-Dihydro-2H-thieno[3,2- <i>d</i>][1,3]-oxazine 8, 404	
C ₄ Pt-C ₆ 1H-1-Platina-indene 3, 1287		C ₄ S-C ₄ NS 2H-Thieno[2,3- <i>c</i>][1,2]thiazine 8, 515–516	
C ₄ S-C ₃ N ₂ P 4,5-Dihydro-1-thia-5,7-diaza-4-phospha-indene 10, 503		C ₄ S-C ₄ N ₂ Thieno[3,4- <i>b</i>]pyrazine 10, 417	
C ₄ S-C ₃ N ₂ S 3,4-Dihydro-2H-thieno[2,3- <i>c</i>][1,2,4]-thiadiazine 10, 501 <i>f</i>		Thieno[2,3- <i>b</i>]pyrazine 10, 415	
5,6-Dihydro-4H-1,7-dithia-4,6-diaza-indene 10, 501 <i>f</i>		1,4-Dihydro-thieno[3,4- <i>d</i>]pyridazine 3, 753, 753–754	
6,7-Dihydro-5H-2,4-dithia-5,7-diaza-indene 10, 500 <i>f</i>		5,7-Dihydro-thieno[3,4- <i>d</i>]pyrimidine 8, 221	
4H-1,7-Dithia-4,6-diaza-indene 9, 321, 325–326, 330		Thieno[2,3- <i>c</i>]pyridazine 10, 393	
		Thieno[2,3- <i>c</i>]pyridazine 10, 395	
		Thieno[2,3- <i>d</i>]pyrimidine 10, 396	

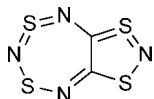
Thieno[3,2-d]pyrimidine 10, 408		7H-Thieno[2,3-c]thiopyran 4, 1028 <i>f</i>	
Thieno[3,4-d]pyridazine 10, 395		C ₄ S-C ₆ 1-Benzothiophene 3, 625–739; 3, 741–841; 3, 931–974; 3, 843–930	
Thieno[3,4-d]pyrimidine 10, 406		2-Benzothiophene 3, 625–739; 3, 741–841; 3, 843–930	
C ₄ S-C ₄ O ₂ 1H,4H-Thieno[3,4-d][1,2]dioxine 3, 756–757, 757		2,3-Dihydro-benzo[b]thiophene 3, 852, 853	
C ₄ S-C ₅ N Thieno[2,3-b]pyridine 10, 290, 299, 313, 10, 713–757		C ₄ Sb-C ₆ 1H-Benzo[b]stibole 3, 1149–1179	
Thieno[2,3-c]pyridine 10, 290, 299, 313, 10, 713–757		2H-Benzo[c]stibole 3, 1149–1179	
Thieno[3,2-c]pyridine 10, 290, 299, 313, 10, 713–757		C ₄ Se-C ₄ O ₂ 5,6-Dihydro-4,7-dioxa-2-selena-indene 3, 993	
C ₄ S-C ₅ O 7H-Thieno[2,3-c]pyran 10, 295, 303, 319, 10, 713–757		C ₄ Se-C ₆ 1-Benzoselenophene 6, 542; 6, 549 <i>f</i>	
3a,7a-Dihydro-4H-thieno[3,2-c]pyran 10, 295, 303, 319, 10, 713–757		C ₄ Si-C ₆ 1H-1-Benzosilole 3, 1200	
C ₄ S-C ₅ S 4H-Thieno[2,3-b]thiin 10, 295, 304, 10, 713–757		2,3-Dihydro-1H-benzo[c]silole 3, 1202	
4H-Thieno[3,2-c]thiin 10, 295, 304, 10, 713–757		C ₄ Te-C ₄ N ₂ Tellurolo[3,4-d]pyridazine 3, 1015 <i>f</i>	
6H-Thieno[2,3-b]thiopyran 10, 295, 304, 10, 713–757		C ₄ Zr-C ₆ 1-Zirconaindene 3, 1243–1304	
7H-Thieno[2,3-c]thiin 10, 295, 304, 10, 713–757		8-Zirconabicyclo[4.3.0]nonane 3, 1243–1304	

C₅-C₂N₄1H-4,5,6,7-Tetraaza-indene
9, 717C₅-C₅S3,5,6,7-Tetrahydro-cyclopenta[c]-
thiopyran
7, 897C₅-C₄N₂2H-Cyclopenta[c]pyridazine
5, 224

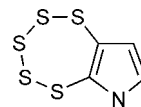
5,7



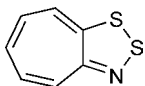
1,3,2-Dithiazolo[4,5-c][1,3,2,4,7]-
dithiatriazepine-3,5
6, 43, 54



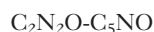
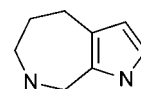
1H-4,5,6,7,8-Pentathia-1-aza-azulene
3, 166–167



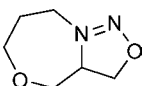
Cyclohepta[1,2,3]dithiazole
6, 29



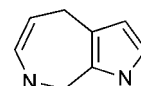
1,4,5,6,7,8-Hexahydro-pyrrolo-
[2,3-c]azepine
1, 601



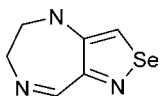
3a,4,7,8-Tetrahydro-3H,6H-2,5-
dioxo-1,8a-diaza-azulene
5, 214; 5, 222



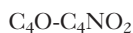
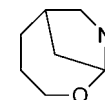
1,4,7,8-Tetrahydro-pyrrolo-
[2,3-c]azepine
1, 601



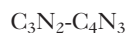
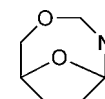
5,6-Dihydro-4H-isoselenazolo[4,3-c]-
[1,4]diazepine
4, 780–781



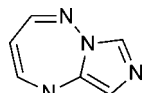
2-Oxa-8-aza-bicyclo[4.2.1]nonane
14, 191



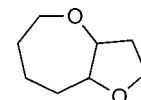
4,9-Dioxo-2-aza-bicyclo[4.2.1]nonane
14, 191



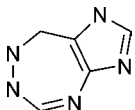
1H-Imidazo[1,5-b][1,2,4] triazepine
13, 419f



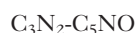
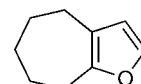
Octahydro-furo[3,2-b]oxepine
13, 57, 58



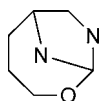
1,6,7,8-Tetrahydro-imidazo[4,5-c]-
[1,2,4]triazepine
13, 419, 420f



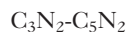
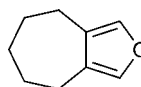
5,6,7,8-Tetrahydro-4H-cyclohepta[b]-
furan
3, 504



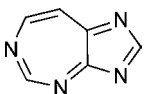
2-Oxa-8,9-diaza-bicyclo[4.2.1]nonane
14, 191



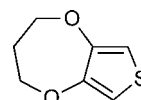
5,6,7,8-Tetrahydro-4H-cyclohepta[c]-
furan
3, 500–501



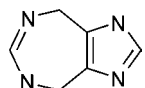
Imidazo[4,5-d][1,3]diazepine
13, 161–182



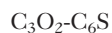
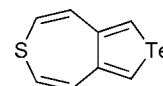
3,4-Dihydro-2H-thieno[3,4-b][1,4]-
dioxepine
13, 372



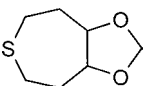
1,4,5,8-Tetrahydro-1,3,5,7-tetraaza-
azulene
13, 169



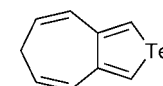
Tellurolo[3,4-d]thiopicene
3, 1015f



Hexahydro-thiepino[4,5-d][1,3]dioxole
4, 853–854

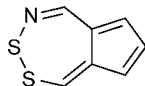
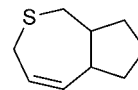


6H-Cyclohepta[c]tellurophene
3, 1015f



C₅-C₄NS₂

5,6-Dithia-7-aza-azulene

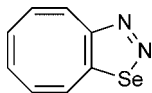
13, 396C₅-C₆S3,5a,6,7; 8,8a-Hexahydro-1H-cyclo-
penta[c]thiepine**13**, 131

5,8

C₂N₂Se-C₈

Cycloocta-1,2,3-selenadiazole

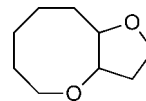
6, 550*f*; 6, 551*f*



C₄O-C₇O

Octahydro-furo[3,2-b]oxocine

14, 67*f*

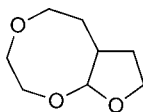


C₄O-C₅O₂

Octahydro-1,6,9-trioxa-

cyclopentacyclooctene

3, 529

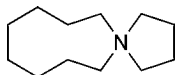


5,9

C₄N-C₈N

5-Aza-spiro[4.8]tridecane

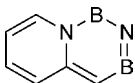
12, 1058*f*



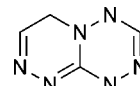
6,6

C₂B₂N₂-C₅N

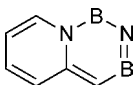
1H-2,8a-Diaza-1,3-dibora-naphthalene
12, 321–325



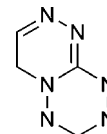
1,5-Dihydro-4H-1,2,4,4a,7,8-hexaaza-naphthalene
9, 663; 12, 357–363



1H-2,8a-Diaza-1,3-dibora-naphthalene
12, 321–325

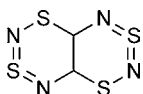


1,3,4,5-Tetrahydro-2H-1,2,4,4a,7,8-hexaaza-naphthalene
12, 357–363



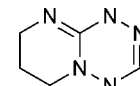
C₂N₂S₂-C₂N₂S₂

1,5-Dihydro-1,3,5,7-tetrathia-2,4,6,8-tetraaza-naphthalene
9, 749



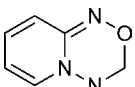
C₂N₄-C₄N₂

1,6,7,8-Tetrahydro-4H-pyrimido-[1,2-b][1,2,4,5]tetrazine
12, 341–346



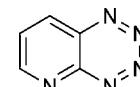
C₂N₃O-C₅N

3,4-Dihydro-pyrido[2,1-c][1,2,4,5]-oxatriazine
12, 321–325



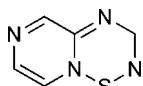
C₂N₄-C₅N

Pyrido[2,3-c][1,2,3,4]tetrazine
10, 1126^f

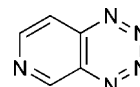


C₂N₃S-C₄N₂

2,3-Dihydro-pyrazino[1,2-b][1,2,4,6]-thiatriazine
12, 341–346

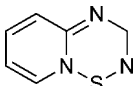


Pyrido[3,4-c][1,2,3,4]tetrazine
9, 717



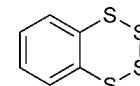
C₂N₃S-C₅N

2,3-Dihydro-pyrido[1,2-b][1,2,4,6]-thiatriazine
12, 321–325

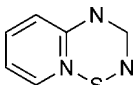


C₂N₄-C₆

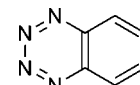
Benzotetrathiine
9, 741–742



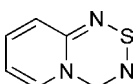
3,4-Dihydro-2H-pyrido[1,2-b][1,2,4,6]-thiatriazine
12, 321–325



Benzotetrazine
9, 715–735

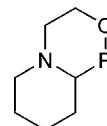


3,4-Dihydro-pyrido[2,1-c][1,2,4,6]-thiatriazine
12, 321–325

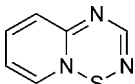


C₃NOP-C₅N

Octahydro-2-oxa-4a-aza-1-phosphanaphthalene
12, 250

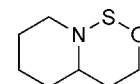


Pyrido[1,2-b][1,2,4,6]thiatriazine
12, 321–325

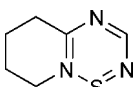


C₃NOS-C₅N

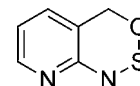
Hexahydro-pyrido[1,2-c][1,2,3]-oxathiazine
12, 247^f



5,6,7,8-Tetrahydro-1λ⁴-pyrido[1,2-b]-[1,2,4,6]thiatriazine
12, 341–346

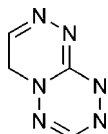


1,4-Dihydro-3-oxa-2-thia-1,8-diaza-naphthalene
10, 902



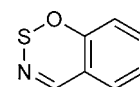
C₂N₄-C₃N₃

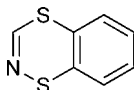
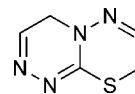
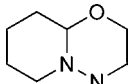
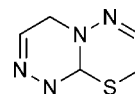
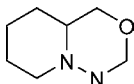
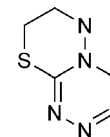
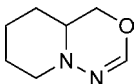
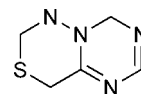
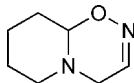
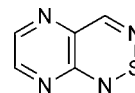
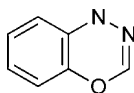
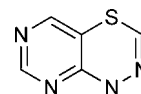
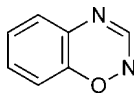
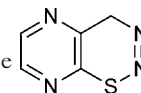
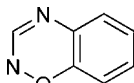
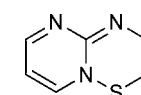
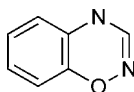
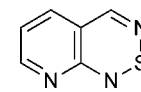
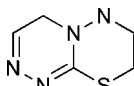
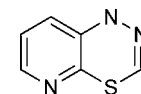
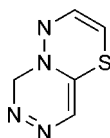
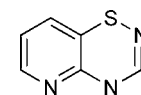
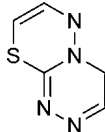
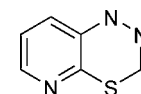
1,5-Dihydro-2H-1,2,4,4a,7,8-hexaaza-naphthalene
12, 357–363

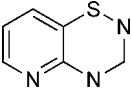
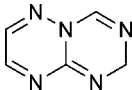
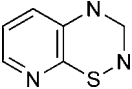
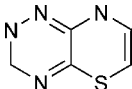
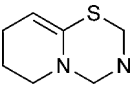
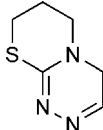
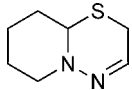
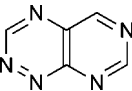
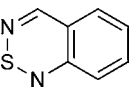
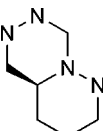
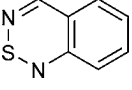
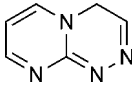
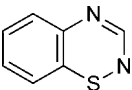
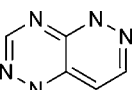
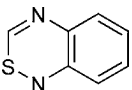
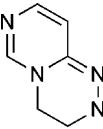
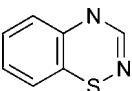
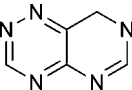
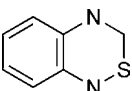
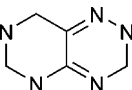
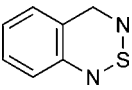
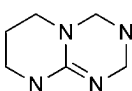
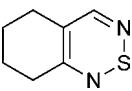
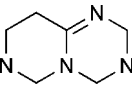


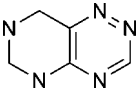
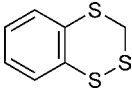
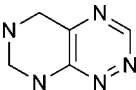
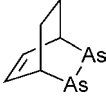
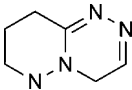
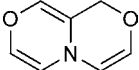
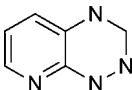
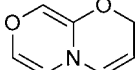
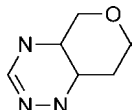
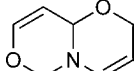
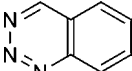
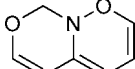
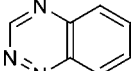
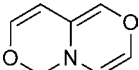
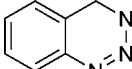
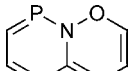
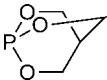
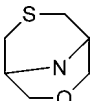
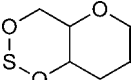
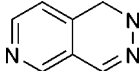
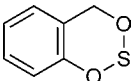
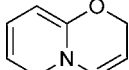
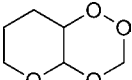
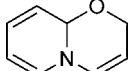
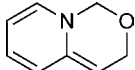
C₃NOS-C₆

Benzo[e][1,2,3]oxathiazine
1, 587–588



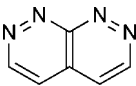
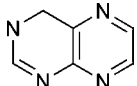
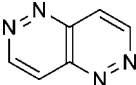
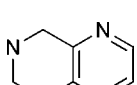
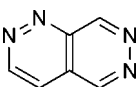
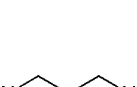
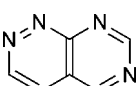
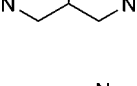
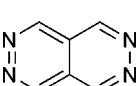
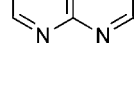
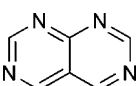
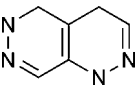
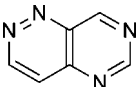
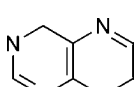
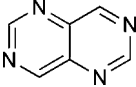
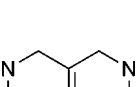
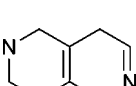
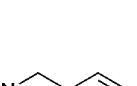
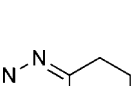
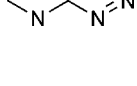
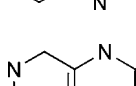
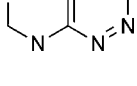
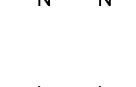
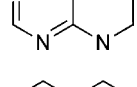
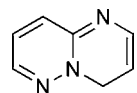
C₃N₂S₂-C₆1,4,2-Benzodithiazine
9, 523–5674H,8H-[1,2,4]Triazino[3,4-b][1,3,4]-
thiadiazine
12, 347–355C₃N₂O-C₅NHexahydro-1-oxa-4,4a-diaza-
naphthalene
12, 2431,9a-Dihydro-4H,8H-[1,2,4]triazino-
[3,4-b][1,3,4]thiadiazine
12, 347–355Octahydro-3-oxa-1,8a-diaza-
naphthalene
12, 2437,8-Dihydro-4H,6H-[1,2,4]triazino-
[3,4-b][1,3,4]thiadiazine
12, 347–3554,4a,5,6,7,8-Hexahydro-3-oxa-1,8a-
diaza-naphthalene
12, 2424,5,6,8-Tetrahydro-7-thia-1,3,4a,5-
tetraaza-naphthalene
12, 347–3557,8,9,9a-Tetrahydro-4H,6H-pyrido-
[1,2-c][1,2,5]oxadiazine
12, 244fC₃N₂S-C₄N₂1H-Pyrazino[2,3-c][1,2,6]thiadiazine
9, 357, 359, 375, 375, 10, 1120C₃N₂O-C₆1H-Benzo[1,3,4]oxadiazine
9, 422–4231H-Pyrimido[4,5-c][1,3,4]thiadiazine
10, 11252H-Benzo[1,2,4]oxadiazine
9, 301–3434H-1-Thia-2,3,5,8-tetraaza-naphthalene
9, 307–3082H-1,2,4-Benzoxadiazine
9, 301–3432,3-Dihydro-4-thia-1,4a,8-triaza-
naphthalene
12, 341–3464H-Benzo[1,2,4]oxadiazine
9, 301–343C₃N₂S-C₅N1H-Pyrido[2,3-c][1,2,6]thiadiazine
9, 364C₃N₂S-C₃N₂7,8-Dihydro-4H,6H-[1,2,4]triazino-
[3,4-b][1,3,4]thiadiazine
12, 347–3551H-Pyrido[3,2-c][1,3,4]thiadiazine
10, 895–896C₃N₂S-C₃N₃4H,5H-1-Thia-4,4a,6,7-tetraaza-
naphthalene
12, 347–3554H-Pyrido[2,3-c][1,2,4]thiadiazine
10, 893–894, 895–8964H,6H-[1,2,4]Triazino[3,4-b][1,3,4]-
thiadiazine
12, 347–3552,3-Dihydro-1H-pyrido[3,2-c]-
[1,3,4]thiadiazine
10, 895

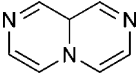
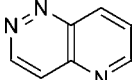
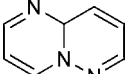
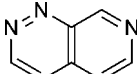
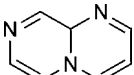
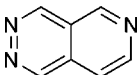
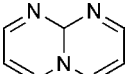
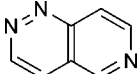
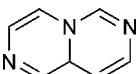
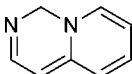
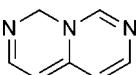
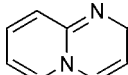
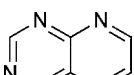
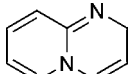
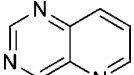
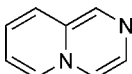
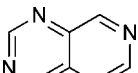
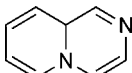
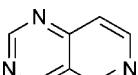
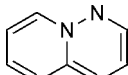
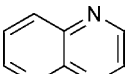
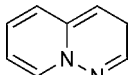
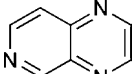
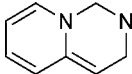
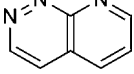
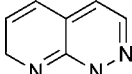
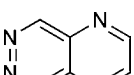
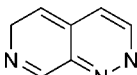
3,4-Dihydro-2H-pyrido[2,3-c]-[1,2,4]thiadiazine 10, 894		C ₃ N ₃ -C ₃ N ₃ 2H-1,3,4a,5,8-Pentaaza-naphthalene 12, 347–355	
3,4-Dihydro-2H-1-thia-2,4,8-triaza-naphthalene 9, 307		C ₃ N ₃ -C ₄ NS 2,8-Dihydro-3H-5-thia-1,2,4,8-tetraaza-naphthalene 10, 1121	
3,4,6,7-Tetrahydro-2H,5H-1-thia-3,4a-diaza-naphthalene 12, 245		7,8-Dihydro-4H,6H-[1,3]thiazino-[2,3-c][1,2,4]triazine 12, 327–340	
7,8,9,9a-Tetrahydro-2H,6H-pyrido-[2,1-b][1,3,4]thiadiazine 12, 244		C ₃ N ₃ -C ₄ N ₂ Pyrimido[5,4-c]-1,2,4-triazine 10, 1123	
C ₃ N ₂ S-C ₆ 1H-2,1,3-Benzothiadiazine 9, 355–400		Octahydro-pyridazino[1,6-d][1,2,4]triazine 12, 327–340	
2H-Benzo[c][1,2,3]thiadiazine 9, 296		4H-Pyrimido[2,1-c][1,2,4]triazine 12, 327–340	
2H-Benzo[1,2,4]thiadiazine 9, 301–343		1,5-Dihydro-pyridazino[3,4-c]-[1,2,4]triazine 10, 1128	
2H-1,2,4-Benzothiadiazine 9, 301–343		3,4-Dihydro-2H-pyrimido[6,1-c]-[1,2,4]triazine 12, 327–340	
4H-Benzo[1,2,4]thiadiazine 9, 301–343		7,8-Dihydro-pyrimido[4,5-c]-[1,2,4]triazine 1119	
3,4-Dihydro-1H-benzo[1,2,5]-thiadiazine 9, 345–354		2,3,5,6,7,8-Hexahydro-pyrimido-[4,5-c][1,2,4]triazine 10, 1124f	
3,4-Dihydro-1H-benzo[1,2,6]-thiadiazine 9, 355–400		3,4,6,7,8,9-Hexahydro-2H-pyrimido-[1,2-a][1,3,5]triazine 12, 327–340	
5,6,7,8-Tetrahydro-1H-benzo-[1,2,6]thiadiazine 9, 377		3,4,6,7,8,9-Hexahydro-2H-pyrimido-[1,6-a][1,3,5]triazine 12, 327–340	

5,6,7,8-Tetrahydro-pyrimido[4,5-c]-[1,2,4]triazine 10, 1123		C ₃ S ₃ -C ₆ Benzo[1,2,4]trithiine 9, 569–640	
5,6,7,8-Tetrahydro-pyrimido[5,4-c]-[1,2,4]triazine 10, 1121–1122, 1122		C ₄ As ₂ -C ₆ 2,3-Diarsa-bicyclo[2.2.2]oct-5-ene 9, 884f	
6,7,8,9-Tetrahydro-4H-pyridazino-[6,1-c][1,2,4]triazine 12, 327–340		C ₄ NO-C ₄ NO 1H-[1,4]Oxazino[3,4-c][1,4]oxazine 12, 310	
C ₃ N ₃ -C ₅ N 1,2,3,4-Tetrahydro-pyrido[3,2-c]-[1,2,4]triazine 10, 888f		2H-1,7-Dioxa-4a-aza-naphthalene 12, 310	
C ₃ N ₃ -C ₅ O 1,4,4a,5,6,7,8,8a-Octahydro-benzo-[1,2,4]triazine 10, 885		2H,8aH-1,6-Dioxa-4a-aza-naphthalene 12, 310	
C ₃ N ₃ -C ₆ 1,2,3-Benzotriazine 9, 95–196		[1,3]Oxazino[3,4-c][1,3]oxazine 12, 310	
1,2,4-Benzotriazine 9, 1–93		[1,4]Oxazino[4,3-c][1,3]oxazine 12, 310	
3,4-Dihydro-benzo[d][1,2,3]triazine 9, 1–93		C ₄ NO-C ₄ NP 1-Oxa-8a-aza-8-phospha-naphthalene 12, 310	
C ₃ O ₂ P-C ₃ O ₂ P 2,6,7-Trioxa-1-phospha-bicyclo[2.2.2]-octane 12, 556		C ₄ NO-C ₄ NS 3-Oxa-7-thia-9-aza-bicyclo[3.3.1]nonane 01224s0345	
C ₃ O ₂ S-C ₅ O Hexahydro-pyrano[3,2-d][1,3,2]-dioxathiine 10, 889–890, 892		C ₄ NO-C ₅ N 1,2-Dihydro-pyrido[3,4-d]pyridazine 10, 788	
C ₃ O ₂ S-C ₆ 4H-Benzo[1,3,2]dioxathiine 9, 569–640		2H,6H-Pyrido[2,1-b][1,3] oxazine 12, 77–217	
C ₃ O ₃ -C ₅ O Tetrahydro-1,2,4,5-tetraoxa-naphthalene 10, 892		2H,9aH-Pyrido[2,1-b][1,3]oxazine 12, 77–217	
		3H-Pyrido[1,2-c][1,3]oxazine 12, 77–217	

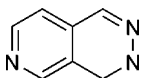
4H-Pyrido[2,3-d][1,3]oxazine 8, 389		C ₄ NS-C ₅ N 2H,6H-Pyrido[2,1-b][1,3] thiazine 12, 77-217	
5H-Pyrido[2,3-d][1,2]oxazine 10, 794		2H,9aH-Pyrido[2,1-b][1,3]thiazine 12, 77-217	
8H-Pyrido[3,2-d][1,2]oxazine 10, 794		3H-Pyrido[1,2-c][1,3]thiazine 12, 77-217	
Pyrido[1,2-b][1,2]oxazine 12, 77-217		4H-Pyrido[3,2-b][1,4]thiazine 10, 886	
Pyrido[2,1-c][1,4]oxazine 12, 77-217		Pyrido[1,2-b][1,2]thiazine 12, 77-217	
C ₄ NO-C ₆ 2H-1,2-Benzoxazine 8, 333-371		Pyrido[2,1-c][1,4]thiazine 12, 77-217	
1,4-Dihydro-2H-benzo[d][1,3]oxazine 8, 373-459		C ₄ NS-C ₅ S 4a,5,8,8a-Tetrahydro-8a1λ ⁴ -thia-1- aza-naphthalene 12, 494; 12, 77-217	
3,4-Dihydro-2H-benzo[c][1,3]oxazine 8, 373-459		Pyrido[2,1-c][1,4]thiazine 12, 77-217	
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2H-1,4-Benzoxazine 8, 461-511		2H-1,4-Benzothiazine 8, 607-675	
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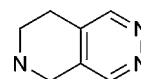
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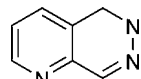
3,4-Dihydro-pyrido[3,4-d]pyridazine
10, 788



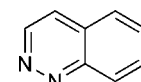
5,6,7,8-Tetrahydro-pyrido-
[3,4-d]pyridazine
10, 788



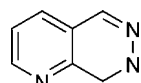
5,6-Dihydro-pyrido[2,3-d]pyridazine
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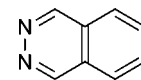
C₄N₂-C₆
Cinnoline
8, 66f



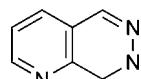
7,8-Dihydro-pyrido[2,3-d]pyridazine
10, 788



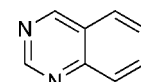
Phthalazine
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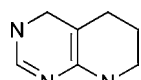
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10, 789f



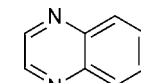
Quinazoline
8, 117–272



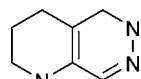
3,4,5,6,7,8-Hexahydro-pyrido-
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9, 260–261, 10, 759–845



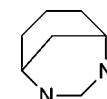
Quinoxaline
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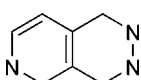
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[2,3-d]pyridazine
10, 792



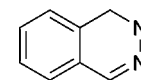
2,4-Diaza-bicyclo[3.3.1]nonane
14, 185



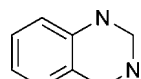
1,2,3,4,5,6-Hexahydro-pyrido-
[3,4-d]pyridazine
10, 788



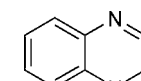
1,2-Dihydro-phthalazine
8, 279



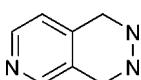
1,2,3,4-Tetrahydro-pyrido-
[3,2-d]pyrimidine
7, 130



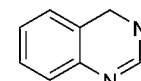
1,2-Dihydro-quinoxaline
8, 301, 302



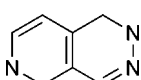
1,2,3,4-Tetrahydro-pyrido-
[3,4-d]pyridazine
10, 788



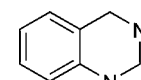
3,4-Dihydro-quinazoline
8, 117–272



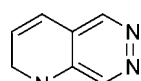
1,2,5,6-Tetrahydro-pyrido-
[3,4-d]pyridazine
10, 791f



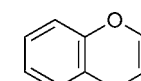
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8, 117–272



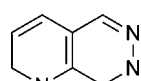
1,2,5,6-Tetrahydro-pyrido-
[3,4-d]pyridazine
10, 791f



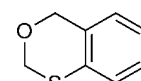
C₄OS-C₆
Benzo[1,4]oxathiine
8, 857–905



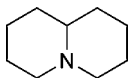
1,2,7,8-Tetrahydro-pyrido-
[2,3-d]pyridazine
10, 791–792



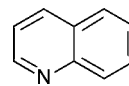
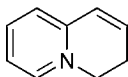
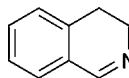
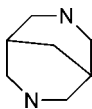
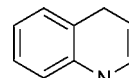
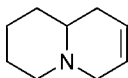
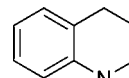
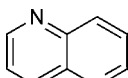
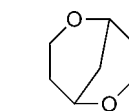
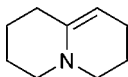
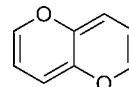
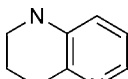
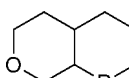
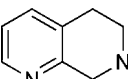
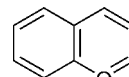
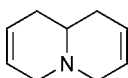
4H-3,1-Benzoxathiin
2, 801



4H-Benzo[d][1,3]oxathiine 2, 455		C ₄ Si ₂ -C ₄ Si ₂ Decahydro-[1,2]disilino[1,2-a]- [1,2]disilene 9, 930, 930, 931	
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C ₄ OSe-C ₆ 4H-3-Oxa-1-selena-naphthalene 9, 805		1,4-Dihydro-benzo[d][1,2]dioxine 8, 677-738	
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1,4-Dihydro-benzo[d][1,2]dioxine 8, 677-738		C ₅ As-C ₆ Arsinoline 7, 1043	
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C ₄ P ₂ -C ₄ P ₂ 1,3,5-Triphospha-bicyclo[2.2.2]- octa-2,5-diene 9, 839		Octahydro-borinino[1,2-a]borinine 12, 573-633	
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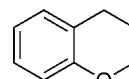
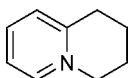
C₅N-C₅N6H-Pyrido[1,2-a]quinoline
12, 26, 0275

Quinoline

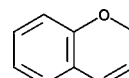
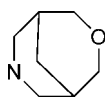
7, 41–99; 7, 101–169;
7, 171–216; 7, 217–308;
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12, 45^f3,4-Dihydro-isoquinoline
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7, 135; 4, 191C₅O-C₅O2,6-Dioxabicyclo[3.3.1]nonane
14, 4171,2,3,4,4a,5,6,7-Octahydro-naphthalene
12, 39^fPyrano[3,2-*b*]pyran
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naphthalene
7, 1021–1022, 1022–10235,6,7,8-Tetrahydro-[1,7]naphthyridine
7, 217–308C₅O-C₆Benzo[2,3]pyrylium
7, 337–418; 7, 419–699; 7, 701–7261,6,9,9a-Tetrahydro-4H-quinolizine
12, 53

Chroman

7, 337–418; 7, 419–699; 7, 701–726

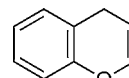
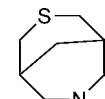
1,2,3,4-Tetrahydro-quinolizine
12, 35^f

2H-Chromene

5, 215^t; 7, 337–418; 7, 419–699;
7, 701–726C₅N-C₅O3-Oxa-7-aza-bicyclo[3.3.1]nonane
14, 386, 398

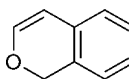
4H-Chromene

7, 337–418; 7, 419–699; 7, 701–726

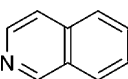
C₅N-C₅S3-Thia-7-aza-bicyclo[3.3.1]nonane
14, 409

1H-Isochromene

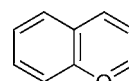
7, 337–418; 7, 419–699; 7, 701–726

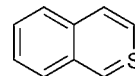
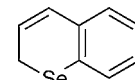
C₅N-C₆

Isoquinoline

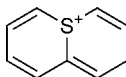
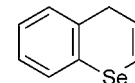
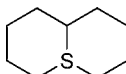
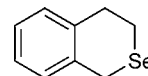
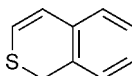
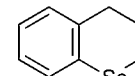
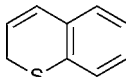
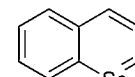
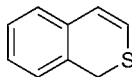
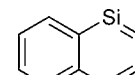
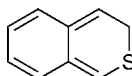
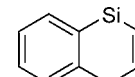
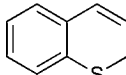
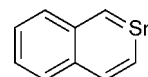
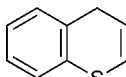
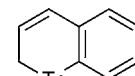
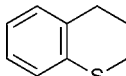
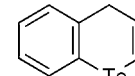
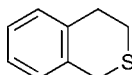
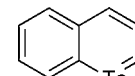
7; 8; 7, 41–99; 7, 101–169;
7, 171–216; 7, 217–308;
7, 309–336

7, 337–418; 7, 419–699; 7, 701–726



C₅P-C₅P1-Phosphabicyclo[2.2.2]octane
7, 1003–10032λ⁴-Isothiochromene
7, 727–9549-Phospha-bicyclo[3.3.1]nonane
7, 1017, 1018, 1021C₅Se-C₆
2H-1-Benzoselenin
7, 955–1001C₅S-C₅S

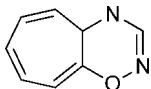
2H-Thiino[1,2-a]thiin-5-ium

4H-Selenochromene
7, 955–1001Decahydro-4aλ⁴-thia-naphthalene
12, 485Isoselenochroman
7, 955–1001C₅S-C₆1H-2-Benzothiin
7, 727–954Selenochroman
7, 955–10012H-1-Benzothiin
7, 727–9541λ⁴-Selenochromene
7, 955–10011H-Isothiochromene
7, 727–954C₅Si-C₆
1-Silanaphthalene
7, 1057–10583H-Isothiochromene
7, 727–9541,4-Dihydro-benzo[b]siline
7, 1061f2H-Thiochromene
7, 727–954C₅Sn-C₆
2-Stanna-naphthalene
7, 1053–1054; 7, 1061–10624H-Thiochromene
7, 727–954C₅Te-C₆
2H-1-Benzotellurin
7, 955–1001Thiochroman
7, 727–9544H-Selenochromene
7, 955–1001Isothiochroman
7, 727–9541λ⁴-Tellurochromene
7, 955–1001

6,7

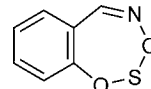
C₃N₂O-C₇

4,4a-Dihydro-1-oxa-2,4-diaza-
benzocycloheptene
9, 309



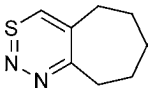
C₆-C₃NO₂S

5,7-Dioxa-6-thia-8-aza-
benzocycloheptene
13, 540



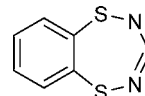
C₃N₂S-C₇

6,7,8,9-Tetrahydro-5H-3λ⁴-thia-
1,2-diaza-benzocycloheptene
9, 292–293, 295



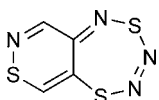
C₆-C₃N₂S₂

6H-5,9-Dithia-6,8-diaza-
benzocycloheptene
13, 545, 547



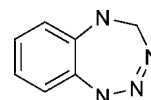
C₄NS-C₂N₃S₂

2,6,9-Trithia-3,5,7,8-tetraaza-
benzocycloheptene
6, 30



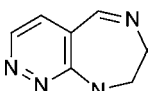
C₆-C₃N₄

8,9-Dihydro-5H-5,6,7,9-tetraaza-
benzocycloheptene
13, 549

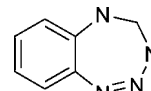


C₄N₂-C₅NO

7,8-Dihydro-9-oxa-1,2,6-triaza-
benzocycloheptene
13, 273f

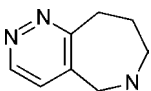


8,9-Dihydro-7H-5,6,7,9-tetraaza-
benzocycloheptene
13, 549–550



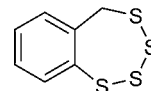
C₄N₂-C₆N

6,7,8,9-Tetrahydro-5H-1,2,6-triaza-
benzocycloheptene
8, 36

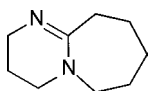


C₆-C₃S₄

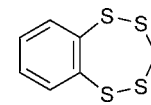
9H-5,6,7,8-Tetrathia-benzocyclo-
heptene
9, 613f; 13, 529–569



2,3,4,6,7,8,9,10-Octahydro-pyrimido
[1,2-a]azepine
6, 168f

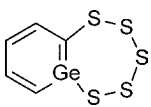


5,6,8,9-Tetrathia-benzocycloheptene
13, 551



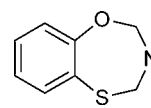
C₅Ge-CGeS₅

5,6,7,8,9-Pentathia-4a-germa-
benzocycloheptene
7, 1053–1054



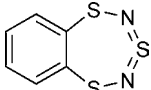
C₆-C₄NOS

7,8-Dihydro-6H-5-oxa-9-thia-7-aza-
benzocycloheptene
13, 489–527



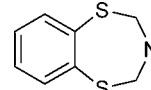
C₆-C₂N₂S₃

1,3,5,2,4-Benzotrithiadiazepine-3
6, 55; 13, 529–569, 551



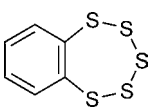
C₆-C₄NS₂

7,8-Dihydro-6H-5,9-dithia-7-aza-
benzocycloheptene
13, 489–527



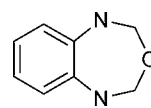
C₆-C₂S₅

Benzopentathiepin
5, 474; 9, 624; 13, 529–569,
554, 555

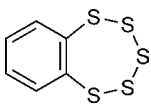


C₆-C₄N₂O

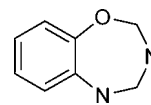
1,2,4,5-Tetrahydro-benzo[1,3,6]
oxadiazepine
13, 489–527



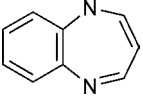
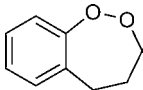
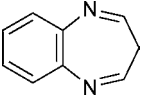
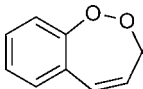
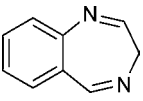
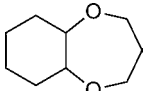
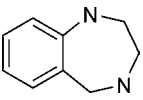
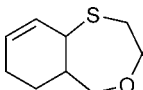
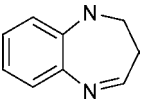
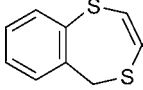
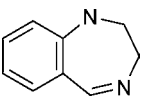
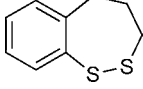
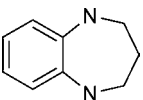
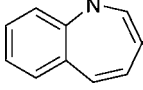
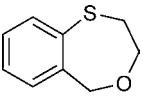
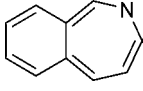
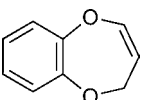
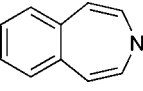
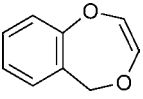
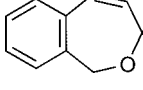
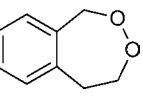
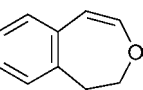
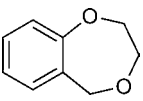
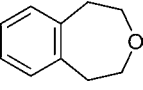
5,6,7,8,9-Pentathia-benzocyclo-
heptene
13, 541



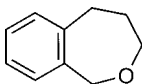
2,3,4,5-Tetrahydro-benzo[1,3,5]
oxadiazepine
13, 489–527



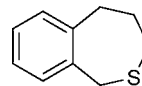
5,7,8,9-Tetrahydro-6-oxa-5,8-diaza-benzocycloheptene 13, 422f		C ₆ -C ₅ NS 1,2-Benzothiazepine 13, 237–243	
C ₆ -C ₄ N ₂ S 1,2,4,5-Tetrahydro-benzo[d][1,2,7]thiadiazepine 13, 391		1,4-Benzothiazepine 13, 279	
1,2,4,5-Tetrahydro-benzo[d][1,3,6]thiadiazepine 13, 489–527		2,3-Dihydro-benzo[b][1,4]thiazepine 5, 294–295; 8, 633f; 13, 279	
2,3,4,5-Tetrahydro-benzo[f][1,2,5]thiadiazepine 13, 478, 469		8,9-Dihydro-5-thia-6-aza-benzocycloheptene 13, 241	
2,3,4,5-Tetrahydro-benzo[1,3,5]thiadiazepine 13, 489–527		2,3,4,5-Tetrahydro-benzo[b][1,4]thiazepine 8, 666f; 13, 279	
5,7,8,9-Tetrahydro-6-thia-5,7-diaza-benzocycloheptene 13, 392		6,7,8,9-Tetrahydro-5-thia-6-aza-benzocycloheptene 13, 238	
C ₆ -C ₄ N ₃ 1H-1,2,4-Benzotriazepine 5, 294–295		5,6,7,9-Tetrahydro-8-thia-5-aza-benzocycloheptene 7, 7420; 13, 279	
2,3,4,5-Tetrahydro-1H-benzo[f][1,3,5]triazepine 13, 489–527		7-Thia-5-aza-benzocycloheptene 13, 245–254	
C ₆ -C ₅ NO 5-Oxa-7-aza-benzocycloheptene 13, 245–254		5-Thia-7-aza-benzocycloheptene 13, 245–254	
6-Oxa-8-aza-benzocycloheptene 13, 245–254		6-Thia-8-aza-benzocycloheptene 13, 245–254	
7-Oxa-5-aza-benzocycloheptene 13, 245–254		C ₆ -C ₅ N ₂ 1H-1,4-Benzodiazepine 13, 183–235	
6,7,8,9-Tetrahydro-5-oxa-9-aza-benzocycloheptene 13, 272		1H-1,5-Benzodiazepine 13, 183–235	
		3H-Benzo[b][1,4]diazepine 13, 183–235	

1H-Benzo[b][1,4]diazepine 13, 183–235		8,9-Dihydro-7H-5,6-dioxabenzocycloheptene 13, 308–309, 311	
3H-Benzo[b][1,4]diazepine 5, 294–295		7H-5,6-Dioxa-benzocycloheptene 13, 313	
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2,3-Dihydro-1H-benzo[c][1,4]diazepine 13, 183–235		C ₆ -C ₅ SO 2,4a,6,7,9,9a-Hexahydro-1H-8-oxa-5-thia-benzocycloheptene 13, 372	
2,3-Dihydro-1H-benzo[b][1,4]diazepine 1, 611		C ₆ -C ₅ S ₂ 5H-1,4-Benzodithiepin 13, 367–386	
2,3-Dihydro-1H-benzo[c][1,4]diazepine 13, 183–235		8,9-Dihydro-7H-5,6-dithiabenzocycloheptene 13, 97–141	
2,3,4,5-Tetrahydro-1H-benzo[b][1,4]diazepine 13, 183–235		C ₆ -C ₆ N 1H-Benzazepine 13, 1–43	
C ₆ -C ₅ OS 6,7-Dihydro-9H-8-oxa-5-thiabenzocycloheptene 13, 370		2H-2-Benzazepine 13, 1–43	
C ₆ -C ₅ O ₂ 2H-1,5-Benzodioxepine 13, 367–386		3H-3-Benzazepine 13, 1–43	
5H-1,4-Benzodioxepine 13, 367–386, 372		5,6-Dihydro-7-oxabenzocycloheptene 13, 45–95	
4,5-Dihydro-1H-benzo[d][1,2]dioxepine 13, 308–309		5,6,8,9-Tetrahydro-7-oxabenzocycloheptene 13, 45–95	
2,3-Dihydro-5H-benzo[c][1,4]dioxepine 13, 371		2,3,4,5-Tetrahydro-benzo[b]oxepine 13, 54f, 55	

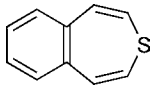
1,3,4,5-Tetrahydro-benzo[c]oxepine
13, 45-95



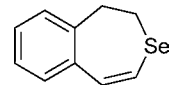
1,3,4,5-Tetrahydro-benzo[c]thiepine
13, 97-141



C₆-C₆S
3-Benzothiepine
13, 97-141



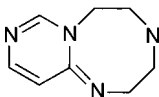
C₆-C₆Se
5,6-Dihydro-7-selena-
benzocycloheptene
7, 975f



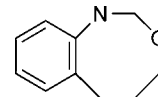
6,8

$C_4N_2-C_5N_3$

7,8,9,10-Tetrahydro-6H-2,5,8,10a-tetraaza-benzocyclooctene
14, 492

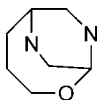


1,4,5,6-Tetrahydro-2H-benzo[d]-[1,3]oxazocine
14, 191

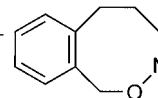


$C_4N_2-C_6NO$

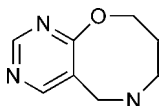
2-Oxa-7,9-diaza-bicyclo[4.2.2]decane
14, 191



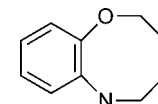
3,4,5,6-Tetrahydro-1H-benzo[f][1,2]-oxazocine
14, 121



6,7,8,9-Tetrahydro-5H-10-oxa-1,3,6-triaza-benzocyclooctene
14, 393f

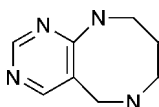


3,4,5,6-Tetrahydro-2H-benzo[b]-[1,4]oxazocine
14, 274

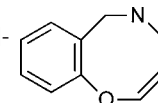


$C_4N_2-C_6N_2$

5,6,7,8,9,10-Hexahydro-1,3,6,10-tetraaza-benzocyclooctene
14, 339f

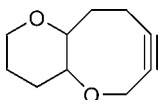


3,4,5,6-Tetrahydro-2H-benzo[b][1,5]-oxazocine
14, 395f, 396f

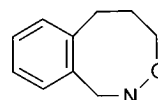


C_5O-C_7O

Pyrano[3,2-b]oxooctyne
14, 72

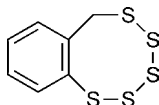


5,8,9,10-Tetrahydro-6H-7-oxa-6-aza-benzocyclooctene
14, 121



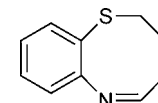
$C_6-C_3S_5$

10H-5,6,7,8,9-Pentathia-benzocyclooctene
9, 613f



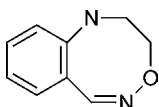
C_6-C_6NS

3,4-Dihydro-2H-benzo[b][1,4]-thiazocine
8, 666

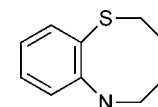


$C_6-C_5N_2O$

6,7-Dihydro-5H-8-oxa-5,9-diaza-benzocyclooctene
14, 494

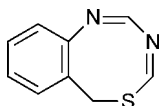


5,6-Dihydro-2H-benzo[b][1,4]-thiazocine
14, 283

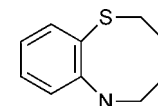


$C_6-C_5N_2S$

10H-9-Thia-5,7-diaza-benzocyclooctene
14, 495

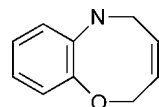


3,4,5,6-Tetrahydro-2H-benzo[b]-[1,4]thiazocine
14, 283



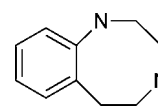
C_6-C_6NO

5,6-Dihydro-2H-benzo[b][1,4]-oxazocine
14, 278

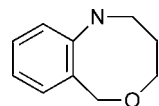


$C_6-C_6N_2$

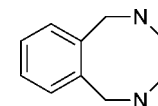
1,2,3,4,5,6-Hexahydro-benzo[c]-[1,4]diazocine
14, 260

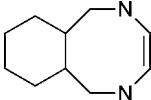
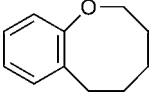
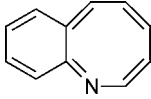
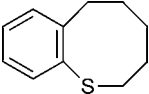
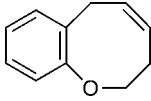
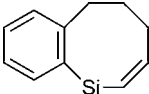
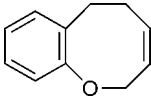
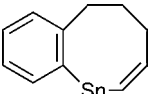
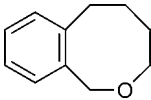


1,3,4,6-Tetrahydro-2H-benzo[c]-[1,5]oxazocine
14, 394f, 403, 404f, 398



1,2,3,4,5,6-Hexahydro-benzo[f]-[1,4]diazocine
14, 260



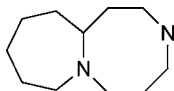
1,2,5,6,6a,7,8,9,10,10a-Decahydro- benzo[f][1,4]diazocine 14 , 270 ^f		3,4,5,6-Tetrahydro-2H-benzo[b] oxocine 14 , 69 ^f , 76	
C ₆ -C ₇ N 1-Benzazocine 14 , 30		C ₆ -C ₇ S 3,4,5,6-Tetrahydro-2H-benzo[b] thiocine 14 , 94	
C ₆ -C ₇ O 3,6-Dihydro-2H-benzo[b]oxocine 14 , 49–88		C ₆ -C ₇ Si 5,8,9,10-Tetrahydro-5-sila- benzocyclooctene 14 , 986–987	
5,6-Dihydro-2H-benzo[b]oxocine 14 , 65 ^f		C ₆ -C ₇ Sn 5,8,9,10-Tetrahydro-5-stanna- benzocyclooctene 14 , 986–987	
3,4,5,6-Tetrahydro-1H-benzo[c] oxocine 14 , 68 ^f			

7,8

C₆N-C₆N₂

Dodecahydro-5a,9-diaza-cycloheptacyclooctene

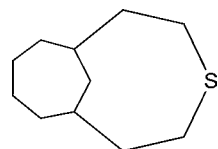
14, 332*f*



C₇-C₇S

4-Thia-bicyclo[5.4.1]dodecane

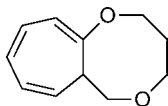
14, 89–98



C₇-C₆O₂

8,9,11,11a-Tetrahydro-7H-6,10-dioxa-cycloheptacyclooctene

14, 439*f*

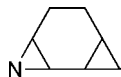


3,3,6

C₂N-C₃-C₆

3-Aza-tricyclo[5.1.0.02,4]octane

1, 28; 1, 109

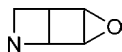


3,4,4

C₂O-C₃N-C₄

3-Oxa-6-aza-tricyclo[3.2.0.0^{2,4}]heptane

2, 267–268

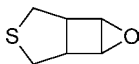


3,4,5

C₂O-C₄-C₄S

3-Oxa-7-thia-tricyclo[3.3.0.0^{2,4}]octane

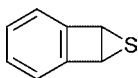
1, 240



3,4,6

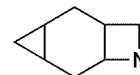
C₂S-C₄-C₆

8-Thia-tricyclo[4.3.0.07,9]nona-1(6),
2,4-triene
1, 419



C₃-C₃N-C₆

8-Aza-tricyclo[5.2.0.03,5]nonane
2, 258, 299

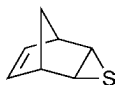


3,5,5

C₂S-C₅-C₅

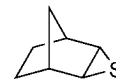
3-Thia-tricyclo[3.2.1.0^{2,4}]oct-6-ene

1, 392, 415, 417



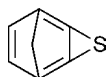
2,3-thiiranobicyclo[2.2.1]heptane

6, 455*f*



3-Thia-tricyclo[3.2.1.0^{2,4}]octa-1,4,6-triene

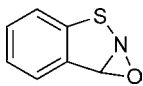
6, 455*f*



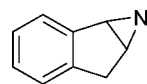
3,5,6

CNO-C₃NS-C₆

1aH-1-Oxa-6-thia-6a-aza-
cyclopropa[a]indene
1, 590, 593

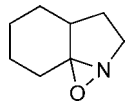


1,1a,6,6a-Tetrahydro-1-aza-
cyclopropa[a]indene
1, 112, 113, 113–114



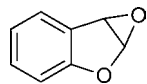
CNO-C₄N-C₆

Hexahydro-1-oxa-1a-aza-
cyclopropa[c]indene
1, 562



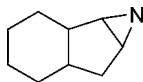
C₂O-C₄O-C₆

1a,6a-Dihydro-1,6-dioxa-
cyclopropa[a]indene
1, 656



C₂N-C₅-C₆

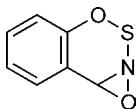
Decahydro-1-aza-cyclopropa[a]
indene
1, 114–115



3,6,6

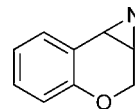
CNO-C₃NOS-C₆

7bH-1,3-Dioxa-2-thia-1a-aza-
cyclopropa[a]naphthalene
1, 587–588, 588



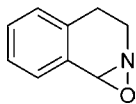
C₂N-C₅S-C₆

1,1a,2,7b-Tetrahydro-3-oxa-1-aza-
cyclopropa[a]naphthalene
1, 62f



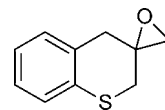
CNO-C₅N-C₆

3,7b-Dihydro-2H-1-oxa-1a-aza-
cyclopropa[a]naphthalene
1, 580–581



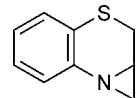
C₂O-C₅S-C₆

Spiro[2H-1-benzothiopyran-
3(4H),2'-oxirane]
7, 765



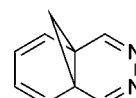
C₂N-C₄NS-C₆

1a,2-Dihydro-1H-3-thia-7b-aza-
cyclopropa[a]naphthalene
8, 648–649

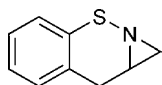


C₃-C₄N₂-C₆

3,4-Diaza-tricyclo[4.4.1.01,6]
undeca-2,4,7,9-tetraene
8, 31f



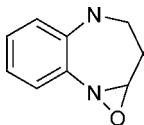
7,7a-Dihydro-1H-2-thia-1a-aza-
cyclopropa[b]naphthalene
1, 61f; 1, 121



3,6,7

CNO-C₅N₂-C₆

1a,2,3,4-Tetrahydro-1-oxa-4,8b-diaza-
benzo[a]cyclopropa[c]cycloheptene
1, 611



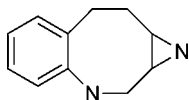
3,6,8

C₂N-C₆-C₇N

1a,2,3,8,9,9a-Hexahydro-1H-1,8-
diazabenzocyclopropa[e]

cyclooctene

158*f*, 158*f*

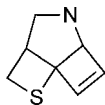


4,4,5

C₃S-C₄-C₄N

2-Thia-6-aza-tricyclo[5.2.0.01,4]non-8-ene

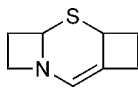
2, 442–443



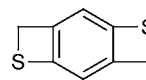
4,4,6

C₃N-C₄-C₄NS

7-Thia-1-aza-tricyclo
[6.2.0.03,6]dec-2-ene
2, 123

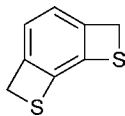


4,9-Dithia-tricyclo[6.2.0.03,6]
deca-1(8),2,6-triene
7, 892



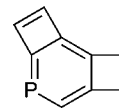
C₃S-C₃S-C₆

3,10-Dithia-tricyclo[6.2.0.02,5]
deca-1,5,7-triene
2, 432, 439–441, 448

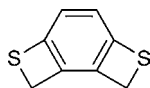


C₄-C₄-C₅P

6-Phospha-tricyclo[6.2.0.02,5]
deca-1,3,5,7,9-pentaene
7, 1006

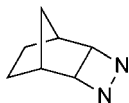


4,9-Dithia-tricyclo[6.2.0.02,5]
deca-1(8),2(5),6-triene
2, 439–441

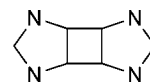


4,5,5

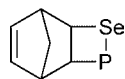
C₂N₂-C₅-C₅
3,4-Diaza-tricyclo[4.2.1.02,5]nonane
2, 650, 651



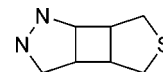
C₄-C₃N₂-C₃N₂
Decahydro-cyclobuta[1,2-d;3,4-d']
diimidazole
10, 1161



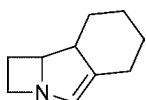
C₂PSe-C₅-C₅
3-Selena-4-phospha-tricyclo
[4.2.1.02,5]non-7-ene
2, 867



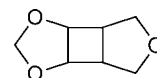
C₄-C₃N₂-C₄S
Octahydro-5-thia-1,2-diaza-
cyclobutadicyclopentene
10, 1160–1161



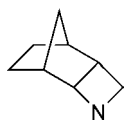
C₃N-C₄N-C₆
1,2,5,6,7,8,8a,8b-Octahydro-
azeto[2,1-a]isoindole
2, 242



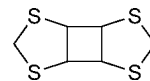
C₄-C₃O₂-C₄O
Hexahydro-1,3,5-trioxa-
cyclobutadicyclopentene
10, 1161



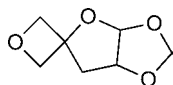
C₃N-C₅-C₅
3-Aza-tricyclo[4.2.1.02,5]nonane
2, 120; 2, 259



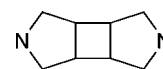
C₄-C₃S₂-C₃S₂
Tetrahydro-1,3,4,6-tetrathia-
cyclobutadicyclopentene
10, 1161



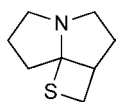
C₃O-C₃O₂-C₄O
Spiro[furo[2,3-d]-1,3dioxole-
5(3aH),3'-oxetane]
2, 376–377



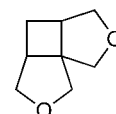
C₄-C₄N-C₄N
Decahydro-cyclobuta
[1,2-c;3,4-c']dipyrrole
10, 1159



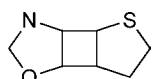
C₃S-C₄N-C₄N
Hexahydro-1-thia-4a-aza-
cyclobuta[c]pentalene
2, 437, 442–443



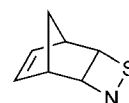
C₄-C₄O-C₄O
Tetrahydro-2,6-dioxa-cyclobuta
[1,2:1,4]dicyclopentene
10, 1160



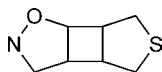
C₄-C₃NO-C₄S
Octahydro-1-oxa-4-thia-3-aza-
cyclobutadicyclopentene
10, 1160



C₄NS-C₅-C₅
3-Thia-4-aza-tricyclo[4.2.1.02,5]
non-7-ene
2, 719, 726, 726–727, 751



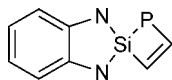
Octahydro-1-oxa-5-thia-2-aza-
cyclobutadicyclopentene
10, 1161



4,5,6

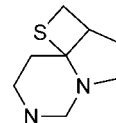
$C_2PSi-C_2N_2Si-C_6$

5,8-Diaza-1-phospha-4-sila-benzo-
spiro[3.4]octa-2,6-diene
6, 681f



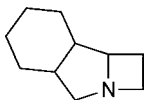
$C_3S-C_4N-C_4N_2$

Octahydro-1-thia-4a,6-diaza-
cyclobuta[c]indene
2, 445



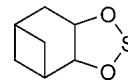
$C_3N-C_4N-C_6$

Decahydro-azeto[2,1-a]isoindole
2, 239–319



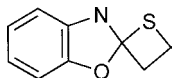
$C_4-C_2O_2S-C_6$

1,3,2-Dioxathiolano-bicyclo
[3.1.1]heptane
6, 148



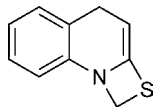
$C_3S-C_3NO-C_6$

5-Oxa-1-thia-8-aza-benzo-spiro
[3.4]oct-6-ene
2, 435, 436

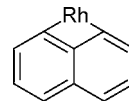


4,6,6

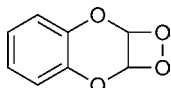
C₂NS-C₅N-C₆
4H-2-Thia-8b-aza-cyclobuta[a]
naphthalene
2, 762, 763, 769–770, 770



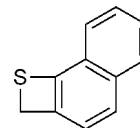
C₃Rh-C₆-C₆
1,1-Dimethyl-1H-naphtho
[1,8-bc]rhodinete
2, 555–621



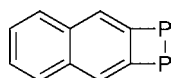
C₂O₂-C₄O₂-C₆
2a,8a-Dihydro-1,2,3,8-tetraoxa-
cyclobuta[b]naphthalene
2, 778



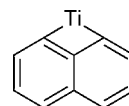
C₃S-C₆-C₆
2H-1-Thia-cyclobuta[a]naphthalene
2, 439–441



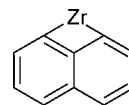
C₂P₂-C₆-C₆
1,2-Dihydro-1,2-diphospha-
cyclobuta[b]naphthalene
2, 891



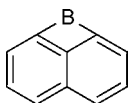
C₃Ti-C₆-C₆
1,1-Dimethyl-1H-naphtho
[1,8-bc]titanete
2, 555–621



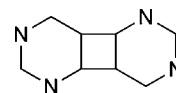
C₃Zr-C₆-C₆
1,1-Dimethyl-1H-naphtho
[1,8-bc]zirconete
2, 555–621



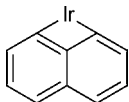
C₃B-C₆-C₆
1H-naphtho[1,8-bc]borete
2, 555–621



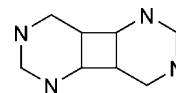
C₄-C₄N₂-C₄N₂
Dodecahydro-1,3,5,7-tetraaza-
biphenylene
8, 176f



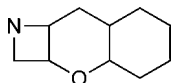
C₃Ir-C₆-C₆
1,1-Dimethyl-1H-naphtho[1,8-bc]
iridinete
2, 555–621



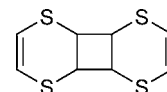
Dodecahydro-1,3,5,7-tetraaza-
biphenylene
10, 1246



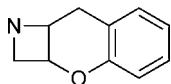
C₃N-C₅O-C₆
Decahydro-3-oxa-1-aza-
cyclobuta[b]naphthalene
2, 262



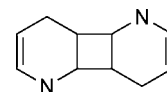
C₄-C₄S₂-C₄S₂
4a,4b,8a,8b-Tetrahydro-1,4,5,8-
tetrathia-biphenylene
8, 865



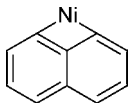
2,2a,8,8a-Tetrahydro-1H-3-oxa-
1-aza-cyclobuta[b]naphthalene
2, 134



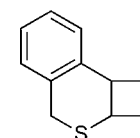
C₄-C₅N-C₅N
1,4,4a,4b,5,8,8a,8b-Octahydro-
cyclobuta[1,2-b;3,4-b']dipyridine
10, 1245



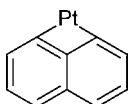
C₃Ni-C₆-C₆
1,1-Dimethyl-1H-naphtho[1,8-bc]
nikelnete
2, 555–621



C₄-C₅S-C₆
2,2a,4,8b-Tetrahydro-1H-3-thia-
cyclobuta[a]naphthalene
7, 761



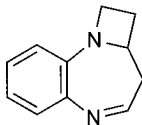
C₃Pt-C₆-C₆
1,1-Dimethyl-1H-naphtho
[1,8-bc]platinete
2, 555–621



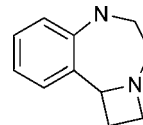
4,6,7

C₃N-C₆-C₅N₂

1,2,2a,3-Tetrahydro-5,9b-diaza-
benzo[a]cyclobuta[c]cycloheptene
2, 123–124

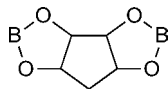


1,2,3,4,5,9b-Hexahydro-2a,5-diaza-
benzo[a]cyclobuta[c]cycloheptene
13, 200

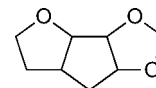


5,5,5

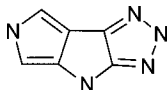
C₂BO₂-C₂BO₂-C₅
Tetrahydro-1,3,4,6-tetraoxa-2,5-
dibora-cyclopenta[a]pentalene
10, 1166



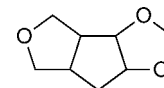
C₃O₂-C₄O-C₅
Hexahydro-furo[2',3':3,4]
cyclopenta[1,2-d][1,3]dioxole
10, 1164



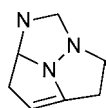
C₂N₂S-C₄N-C₄S
7H-2,5-Dithia-1,3,7-triaza-
cyclopenta[a]pentalene
10, 151–152



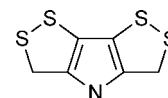
Hexahydro-furo[3',4':3,4]
cyclopenta[1,2-d][1,3]dioxole
10, 1164–1165



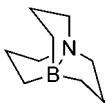
C₂N₃-C₃N₂-C₄N
1,2,3,4,6,6a-Hexahydro-1,2a,6b-
triaza-cyclopenta[cd]pentalene
11, 123–124



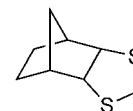
C₃S₂-C₃S₂-C₄N
6,7-Dihydro-1H-2,3,4,5-tetrathia-
7-aza-cyclopenta[a]pentalene
4, 1029f



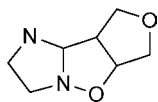
C₃BN-C₃BN-C₃BN
1-Aza-5-bora-tricyclo[3.3.3.0^{1,5}]undecane
12, 573–633



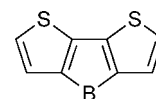
C₃S₂-C₅-C₅
3,5-Dithia-tricyclo[5.2.1.0^{2,6}]decane
4, 1025f



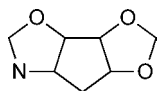
C₃NO-C₃N₂-C₄O
Octahydro-2,7-dioxa-4,6a-diaza-
cyclopenta[a]pentalene
11, 169–170



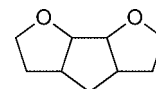
C₄B-C₄S-C₄S
7H-3,4-Dithia-7-bora-cyclopenta[a]
pentalene
3, 1225–1241



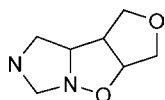
C₃NO-C₃O₂-C₅
Hexahydro-1,3,4-trioxa-6-aza-
cyclopenta[a]pentalene
10, 1165, 1165



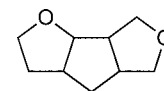
C₄O-C₄O-C₅
Octahydro-cyclopenta
[2,1-b;3,4-b']difuran
10, 1162



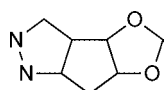
C₃N₂-C₃NO-C₄O
Octahydro-2,7-dioxa-5,6a-diaza-
cyclopenta[a]pentalene
11, 169–170



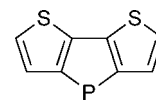
Octahydro-2,4-dioxa-cyclopenta[a]
pentalene
10, 1162



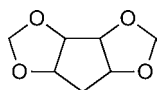
C₃N₂-C₃O₂-C₅
Octahydro-4,6-dioxa-1,2-diaza-
cyclopenta[a]pentalene
10, 1165



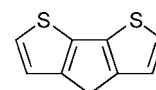
C₄P-C₄S-C₄S
4H-Phospholo[3,2-b;4,5-b']
dithiophene
3, 1031



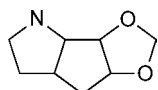
C₃O₂-C₃O₂-C₅
Tetrahydro-cyclopenta[1,2-d;3,4-d']
bis[1,3]dioxole
10, 1165–1166



C₄S-C₄S-C₅
4H-Cyclopenta[2,1-b;3,4-b']
dithiophene
10, 1162–1163

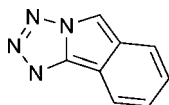


C₃O₂-C₄N-C₅
Octahydro-1,3-dioxa-4-aza-
cyclopenta[a]pentalene
10, 1163, 1163

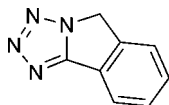


5,5,6

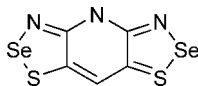
CN₄-C₄N-C₆
1H-Tetrazolo[5,1-a]isoindole
11, 307–323



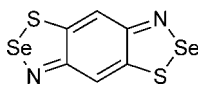
5H-Tetrazolo[5,1-a]isoindole
11, 307–323



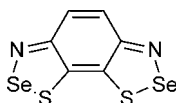
[1,2,3]Thiaselenazolo
[4,5-b:5',4'-c]pyridine
6, 530*f*



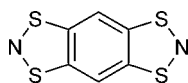
C₂NSSe- C₂NSSe-C₆
Benzo[1,2-d:4,5-d']
bis(1,2,3-thiaselenazole)
6, 574*f*; 6, 574*f*



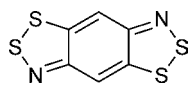
Benzo[2,1-c:3,4-c']
bis(1,2,3-thiaselenazole)
6, 530; 6, 574*f*



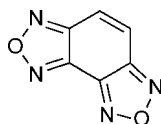
C₂NS₂-C₂NS₂-C₆
Benzo[1,2-d:4,5-d']
bis[1,3,2]dithiazole
6, 44



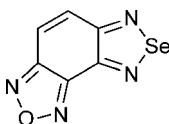
1,2,5,6-Tetrathia-3,7-diaza-
s-indacene
6, 19



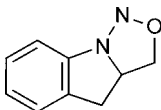
C₂N₂O-C₂N₂O-C₆
Benzo[1,2-c:3,4-c']bis[1,2,5]
oxadiazole
5, 360*f*, 360*f*



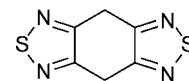
C₂N₂O-C₂N₂Se-C₆
2-Oxa-7-selena-1,3,6,8-
tetraaza-as-indacene
6, 560*f*



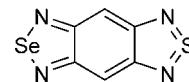
C₂N₂O-C₄N-C₆
4-Benzylsydnio[3,4-*a*]indole
5, 214



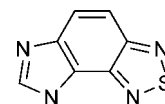
C₂N₂S-C₂N₂S-C₆
4H,8H-Benzo[1,2-c:4,5-c']
bis[1,2,5]thiadiazole
5, 536–537



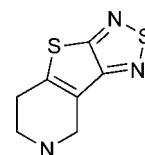
C₂N₂S-C₂N₂Se-C₆
[1,2,5]selenadiazolo[4,5-c]-2,1,3-
benzothiazole
6, 568*f*



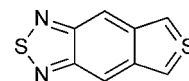
C₂N₂S-C₃N₂-C₆
8H-Imidazo[4',5':3,4]benzo[1,2-c]
[1,2,5]thiadiazole
10, 1187



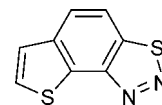
C₂N₂S-C₄S-C₅N
4,5,6,7-Tetrahydro-2,8-dithia-
1,3,5-triaza-cyclopenta[*a*]indene
10, 146



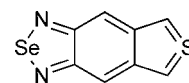
C₂N₂S-C₄S-C₆
Thieno[3,4-f]-2,1,3-
benzothiadiazole-2
10, 1187–1188



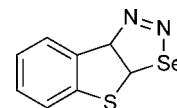
C₂N₂S-C₄S-C₆
3,8-Dithia-1,2-diaza-as-indacene
10, 1187



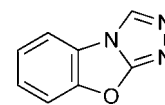
C₂N₂Se-C₄S-C₆
Seleno[3,4-f]-2,1,3-
benzothiadiazole-2
10, 1187–1188



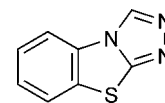
8-Thia-1-selena-2,3-diaza-
cyclopenta[*a*]indene
6, 562*f*



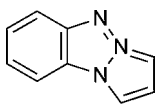
C₂N₃-C₃NO-C₆
Benzo[4,5]oxazolo[2,3-c]
[1,2,4]triazole
11, 250–251



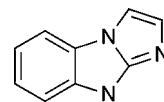
C₂N₃-C₃NS-C₆
Benzo[4,5]thiazolo[2,3-c]
[1,2,4]triazole
11, 250–251



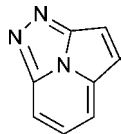
C₂N₃-C₃N₂-C₆
5H-Pyrazolo[1,2-a]
benzotriazol-4-ium
4, 972



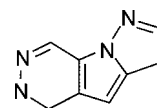
9H-Imidazo[1,2-a]benzimidazole
11, 133–197



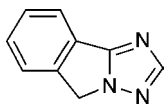
C₂N₃-C₄N-C₅N
1,2,7b-Triaza-cyclopenta[cd]
indene
12, 829



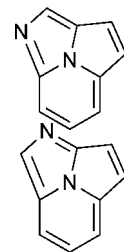
C₃N₂-C₄N-C₄N₂
6,7-Dihydro-1H-3,3a,5,6-tetraaza-
cyclopenta[a]indene
12, 805–806



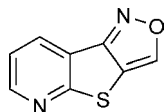
C₂N₃-C₄N-C₆
5H-[1,2,4]Triazolo[5,1-a]
isoindole
11, 117



C₃N₂-C₄N-C₅N
1,7b-Diaza-cyclopenta[cd]indene
12, 829

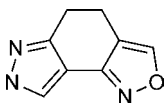


C₃NO-C₄S-C₅N
2-Oxa-8-thia-3,7-diaza-
cyclopenta[a]indene
12, 783f

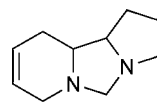


2,7b-Diaza-cyclopenta[cd]indene
12, 829

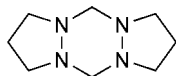
C₃N₂-C₃NO-C₆
5,7-Dihydro-4H-pyrazolo
[4',3':3,4]benzo[2,1-c]isoxazole
10, 1185



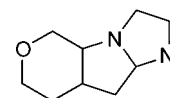
2,3,3a,3b,4,7-Hexahydro-1H-7a,8a-
diaza-cyclopenta[a]indene
12, 822–823



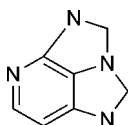
C₃N₂-C₃N₂-C₂N₄
Tetrahydro-dipyrazolo
[1,2-a;1',2'-d][1,2,4,5]tetrazine
9, 661, 662



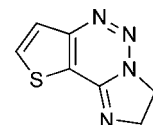
C₃N₂-C₄N-C₅O
Decahydro-5-oxa-1,3a-diaza-
cyclopenta[a]indene
12, 804



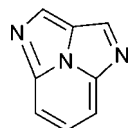
C₃N₂-C₃N₂-C₅N
1,2,3,4-Tetrahydro-1,2a,4,5-
tetraaza-cyclopenta[cd]indene
12, 828–829



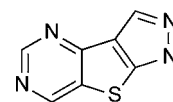
C₃N₂-C₄S-C₃N₃
2,3-Dihydro-8-thia-1,3a,4,5-
tetraaza-as-indacene
10, 502–503



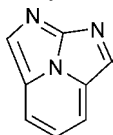
1,4,7b-Triaza-cyclopenta[cd]indene
12, 829



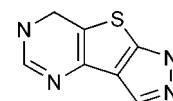
C₃N₂-C₄S-C₄N₂
1H-8-Thia-1,2,4,6-tetraaza-
cyclopenta[a]indene
12, 781f



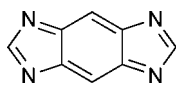
2,3,7b-Triaza-cyclopenta[cd]indene
12, 829



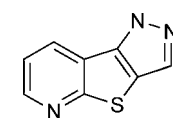
6,7-Dihydro-1H-8-thia-1,2,4,6-
tetraaza-cyclopenta[a]indene
12, 783–784



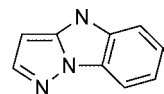
C₃N₂-C₃N₂-C₆
Benzo[1,2-d:4,5-d']diimidazole
10, 1135–1199



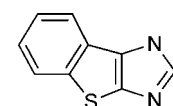
C₃N₂-C₄S-C₅N
3H-8-Thia-2,3,7-triaza-
cyclopenta[a]indene
12, 783f



8H-3,3a,8-Triaza-cyclopenta[a]
indene
11, 199–305



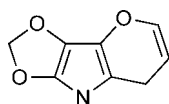
C₃N₂-C₄S-C₆
3H-8-Thia-1,3-diaza-
cyclopenta[a]indene
10, 77f



C₃O₂-C₄N-C₅O

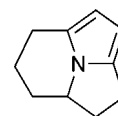
7,8-Dihydro-1,3,4-trioxa-8-aza-cyclopenta[a]indene

3, 368



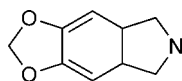
1,2,5,6,7,7a-Hexahydro-pyrrolo[2,1,5-cd]indolizine

11, 17

C₃O₂-C₄N-C₆

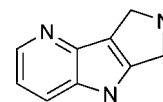
5,6,7,7a-Tetrahydro-4aH-[1,3]dioxolo[4,5-f]isoindole

10, 1181



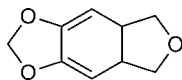
1,2,3,8-Tetrahydro-2,4,8-triaza-cyclopenta[a]indene

12, 775

C₃O₂-C₄O-C₆

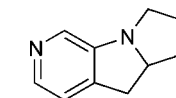
4a,5,7,7a-Tetrahydro-furo[3',4':4,5]benzo[1,2-d][1,3]dioxole

10, 1181

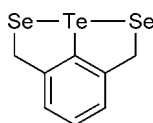


2,3,8,8a-Tetrahydro-1H-3a,5-diaza-cyclopenta[a]indene

12, 797

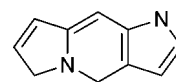
C₃SeTe-C₃SeTe-C₆2a,4-Dihydro-1H-2,3-diselena-2aλ⁴-tellura-cyclopenta[cd]indene

4, 1092–1093



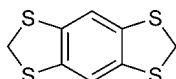
4,6-Dihydro-1H-pyrrolo[3,2-f]indolizine

3, 63

C₃S₂-C₃S₂-C₆

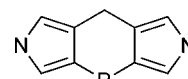
Benzo[1,2-d;4,5-d']bis[1,3]dithiole

10, 1185

C₄N-C₄N-C₅P

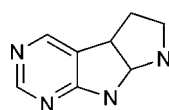
2,4,6,8-Tetrahydro-2,6-diaza-4-phospha-s-indacene

7, 1019, 1020–1021

C₄N-C₄N-C₄N₂

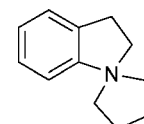
1,2,3,3a,8,8a-Hexahydro-1,5,7,8-tetraaza-cyclopenta[a]indene

12, 776f

C₄N-C₄N-C₆

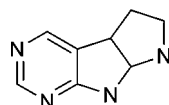
Spiro[1H-indole-1,1'-pyrrolidinium], 2,3-dihydro-, salt

12, 1052f



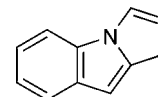
1,2,3,3a,8,8a-Hexahydro-1,5,7,8-tetraaza-cyclopenta[a]indene

12, 777f



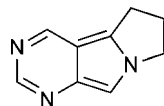
1H-Pyrrolo[1,2-a]indole

6, 161t



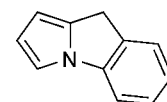
2,3-Dihydro-1H-5,7,8a-triaza-cyclopenta[a]indene

12, 800f



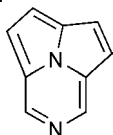
8H-3a-Aza-cyclopenta[a]indene

11, 21



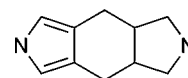
6,7b-Diaza-cyclopenta[cd]indene

12, 829



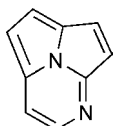
1,2,3,3a,4,6,8,8a-Octahydro-pyrrolo[3,4-f]isoindole

3, 291



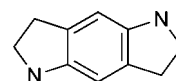
1-Methyl-pyrrolo[1,2-c]pyrimidine

12, 829



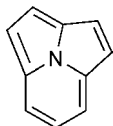
1,2,3,5,6,7-Hexahydro-pyrrolo[2,3-f]indole

10, 1174

C₄N-C₄N-C₅N

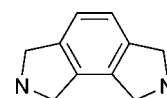
Pyrrolo[2,1,5-cd]indolizine

12, 829

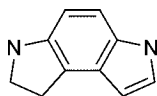


1,2,3,6,7,8-Hexahydro-2,7-diaza-as-indacene

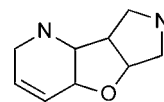
10, 1173



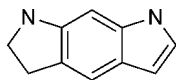
1,2,3,6-Tetrahydro-3,6-diaza-
as-indacene
10, 1167–1168



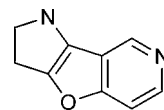
C₄N-C₄O-C₅N
3H-8-Oxa-3,5-diaza-
cyclopenta[a]indene
12, 780f



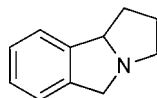
1,2,3,7-Tetrahydro-
pyrrolo[3,2-f]indole
10, 1166



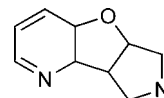
2,3-Dihydro-1H-8-oxa-3,5-diaza-
cyclopenta[a]indene
12, 779f



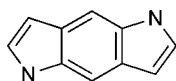
2,3,5,9b-Tetrahydro-1H-
pyrrolo[2,1-a]isoindole
12, 793



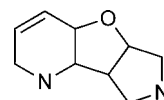
2,3,3a,3b,7a,8a-Hexahydro-1H-
8-oxa-2,4-diaza-cyclopenta[a]indene
12, 778f



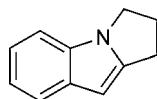
1,5-Dihydro-pyrrolo[2,3-f]indole
10, 1174



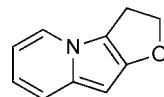
2,3,3a,3b,4,5,7a,8a-Octahydro-1H-
8-oxa-2,4-diaza-cyclopenta[a]indene
12, 847f



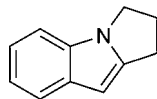
2,3-Dihydro-1H-3a-aza-
cyclopenta[a]indene
1, 153, 155–156



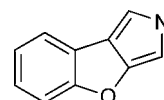
2,3-Dihydro-1-oxa-3b-aza-
cyclopenta[a]indene
12, 813



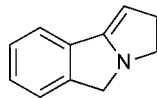
2,3-Dihydro-1H-3a-aza-
cyclopenta[a]indene
1, 603–604; 11, 1–40



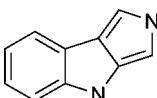
C₄N-C₄O-C₆
2H-8-Oxa-2-aza-cyclopenta[a]
indene
10, 16–17



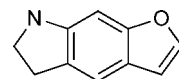
2,5-Dihydro-3H-pyrrolo[2,1-a]
isoindole
12, 794f



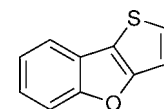
2,8-Dihydro-2,8-diaza-
cyclopenta[a]indene
10, 18, 18



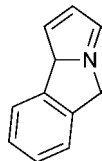
6,7-Dihydro-5H-1-oxa-7-
aza-s-indacene
10, 1166–1167



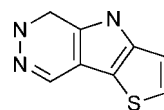
8-Oxa-3-thia-cyclopenta[a]indene
10, 11; 11, 15



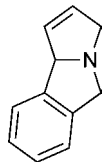
5,9b-Dihydro-pyrrolo[2,1-a]isoindole
11, 15



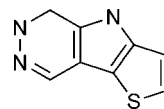
C₄N-C₄S-C₄N₂
7,8-Dihydro-6H-3-thia-5,6,8-
triaza-cyclopenta[a]indene
12, 782f



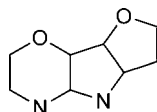
5,9b-Dihydro-3H-pyrrolo[2,1-a]isoindole
11, 17



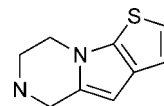
7,8-Dihydro-6H-3-thia-5,6,8-
triaza-cyclopenta[a]indene
12, 784



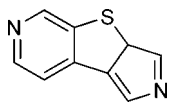
C₄N-C₄O-C₄NO
Decahydro-3,4-dioxa-7,8-diaza-
cyclopenta[a]indene
12, 784



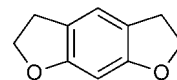
4,5,6,7-Tetrahydro-3-thia-3b,6-
diaza-cyclopenta[a]indene
12, 821



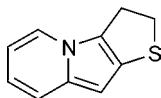
C₄N-C₄S-C₅N
8aH-8-Thia-2,6-diaza-
cyclopenta[a]indene
12, 781*f*, 782*f*



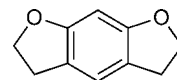
C₄O-C₄O-C₆
2,3,5,6-Tetrahydro-benzo
[1,2-b;5,4-b']difuran
9, 685



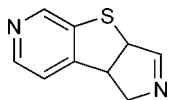
2,3-Dihydro-1-thia-3b-aza-
cyclopenta[a]indene
12, 816–817



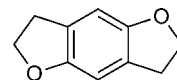
2,3,5,6-Tetrahydro-benzo
[1,2-b;5,4-b']difuran
10, 1167



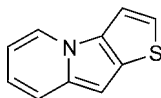
3a,8a-Dihydro-3H-8-thia-2,6-
diaza-cyclopenta[a]indene
12, 781*f*, 782*f*



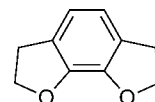
2,3,6,7-Tetrahydro-
benzo[1,2-b;4,5-b']difuran
10, 1167, 1173



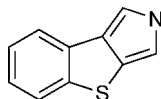
1-Thia-3b-aza-cyclopenta[a]indene
12, 818–819



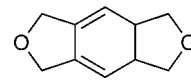
2,3,6,7-Tetrahydro-
benzo[2,1-b;3,4-b']difuran
10, 1180



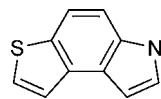
C₄N-C₄S-C₆
2H-8-Thia-2-aza-cyclopenta[a]
indene
10, 16–17



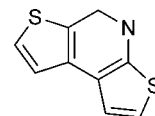
3a,5,7,8a-Tetrahydro-
1H,3H-benzo[1,2-c;4,5-c']difuran
10, 1180



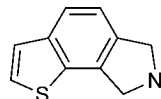
6H-3-Thia-6-aza-as-indacene
10, 1169



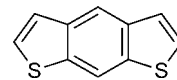
C₄S-C₄S-C₅N
4,5-Dihydro-3,6-dithia-
4-aza-as-indacene
3, 776



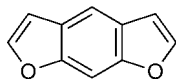
7,8-Dihydro-6H-1-thia-
7-aza-as-indacene
10, 1173



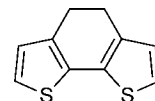
C₄S-C₄S-C₆
Benzo[1,2-b;5,4-b0]dithiophene
9, 938*f*; 3, 865*f*



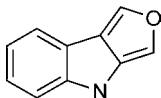
C₄O-C₄O-C₆
Benzo[1,2-b;5,4-b']difuran
10, 1174



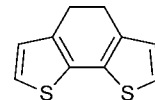
4,5-Dihydro-1,8-dithia-as-indacene
3, 865*f*



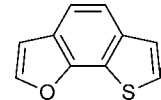
C₄O-C₄S-C₆
8H-2-Oxa-8-aza-cyclopenta[a]
indene
10, 17



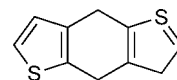
4,5-Dihydro-1,8-dithia-as-indacene
10, 1172, 1175, 1176



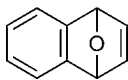
1-Oxa-8-thia-as-indacene
10, 1168



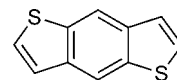
4,8-Dihydro-3H-1λ⁴,5-
dithia-s-indacene
10, 1176



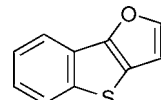
C₄O-C₄O-C₆
11-Oxa-tricyclo[6.2.1.02,7]undeca-
2(7),3,5,9-tetraene
3, 473; 3, 551



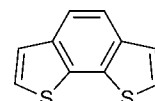
1,5-Dithia-s-indacene
3, 855*f*



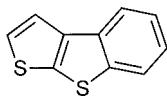
C₄O-C₄S-C₆
[1]Benzothieno[3,2-b]furan
10, 11, 15



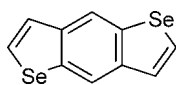
1,8-Dithia-as-indacene
10, 1169



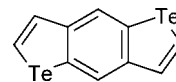
1,8-Dithia-cyclopenta[a]indene
12, 789*f*



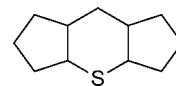
C₄Se-C₄Se-C₆
1,5-Disclena-s-indacene
10, 1175



C₄Te-C₄Te-C₆
1,5-Disclena-s-indacene
10, 1175



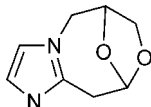
C₅-C₅-C₅S
Decahydro-4-thia-s-indacene
7, 783*f*



5,5,7

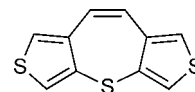
$C_3N_2-C_3O_2-C_5NO$

10,12-Dioxa-3,6-diaza-tricyclo
[7.2.1.03,7]dodeca-3(7),4-diene
14, 386



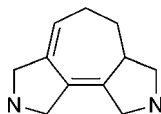
$C_4S-C_4S-C_6S$

2,4,6-Trithia-cyclopenta[f]
azulene
13, 126

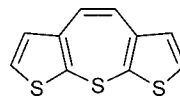


$C_4N-C_4N-C_7$

2,3,3a,4,5,7,8,9-Octahydro-1H-
2,8-diaza-cyclopenta[c]azulene
10, 1190

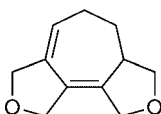


3,4,5-Trithia-cyclopenta[f]azulene
13, 126



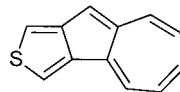
$C_4O-C_4O-C_7$

1,3a,4,5,7,9-Hexahydro-3H-2,8-
dioxo-cyclopenta[c]azulene
10, 1190



$C_4S-C_5-C_7$

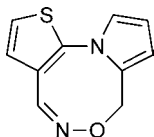
2-Thia-cyclopenta[a]azulene
3, 850f



5,5,8

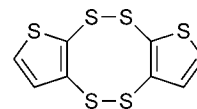
C₄N-C₄S-C₅N₂O

7H-6-Oxa-1-thia-5,10a-diaza-
dicyclopenta[a,c]cyclooctene
14, 494



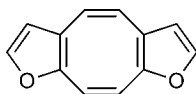
C₄S-C₄S-C₄S₄

1,4,5,8,9,10-Hexathia-
dicyclopenta[a,e]cyclooctene
4, 983*f*



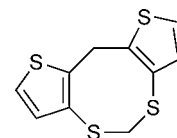
C₄O-C₄O-C₈

Cycloocta[1,2-b:6,5-b0]difuran
10, 1188–1189



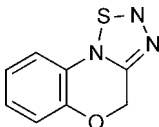
C₄S-C₄S-C₆S₂

10H-1,4,6,9-Tetrathia-
dicyclopenta[a,d]cyclooctene
14, 230

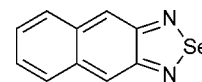


5,6,6

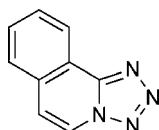
CN₃S-C₄NO-C₆
2,4-Dihydro-5-oxa-1-thia-2,3,9b-
triazacyclopenta[a]naphthalene
6, 493



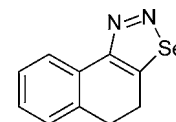
C₂N₂Se-C₆-C₆
Naphtho[2,3-*d*][1,2,5]-
selenadiazole
6, 568–569



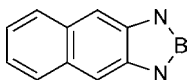
CN₄-C₅N-C₆
1,2,3,3a-Tetraaza-cyclopenta[a]
naphthalene
7, 87; 6, 344f; 6, 390



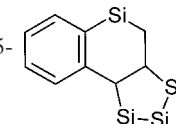
4,5-Dihydro-3-selena-1,2-
diazacyclopenta[a]naphthalene
6, 557–558; 6, 562f



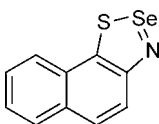
C₂BN₂-C₆-C₆
2,3-Dihydro-1H-1,3-diaza-2-
bora-cyclopenta[b]naphthalene
6, 644



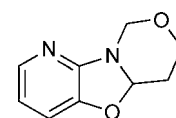
C₂Si₃-C₅Si-C₆
2,3,3a,4,5,9b-Hexahydro-1H-1,2,3,5-
tetrasilacyclopenta[a]naphthalene
6, 662, 668



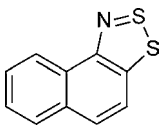
C₂NSSe-C₆-C₆
1-Thia-2λ₄-selena-3-aza-
cyclopenta[a]naphthalene
6, 573f



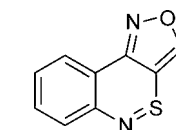
C₃NO-C₄NO-C₅N
1,9a-Dihydro-2H-3,9-dioxa-
4a,5-diaza-fluorene
12, 997



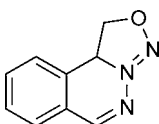
C₂NS₂-C₆-C₆
2λ⁺₄,3-Dithia-1-aza-
cyclopenta[a]naphthalene
6, 28



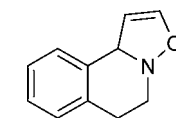
C₃NO-C₄NS-C₆
2-Oxa-4λ⁺-thia-1,5-diaza-
cyclopenta[a]naphthalene
8, 544



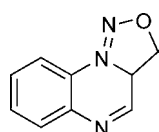
C₂N₂O-C₄N₂-C₆
1,9b-Dihydro-2-oxa-3,3a,4-
triazacyclopenta[a]naphthalene
5, 231–232



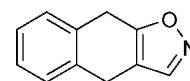
C₃NO-C₅N-C₆
6,10b-Dihydro-5H-isoxazolo-
[3,2-*a*]isoquinoline
4, 386, 387



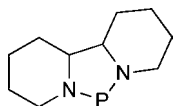
3,3a-Dihydro-2-oxa-1,5,9b-
triazacyclopenta[a]naphthalene
5, 214



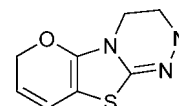
C₃NO-C₆-C₆
4,9-Dihydro-naphtho[2,3-*d*]-
isoxazole
5, 215f



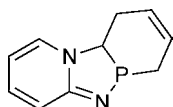
C₂N₂P-C₅N-C₅N
Decahydro-8a,9a-diaza-9-
phospha-fluorene
12, 992



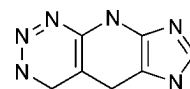
C₃NS-C₃N₃-C₅O
3,4-Dihydro-2H,6H-5-oxa-9-
thia-1,2,4a-triaza-fluorene
12, 996



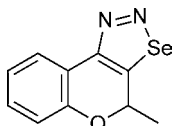
C₂N₂P-C₅N-C₅P
5,8-Dihydro-4bH-4a,9-diaza-
8a-phospha-fluorene
12, 996



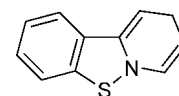
7,9-Dihydro-8H-4-oxa-1-
thia-3,5,6,7-tetraaza-
cyclopenta[b]naphthalene
10, 892

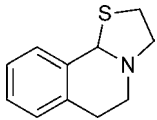
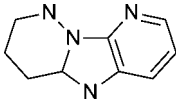
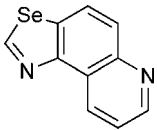
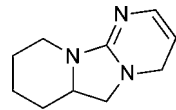
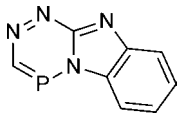
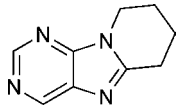
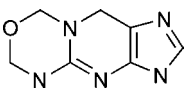
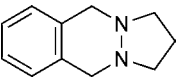
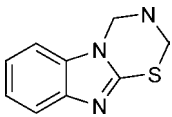
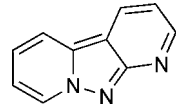
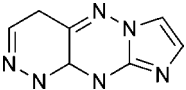
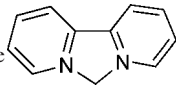
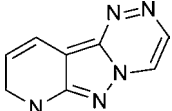
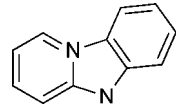
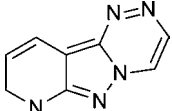
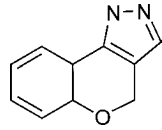
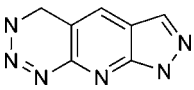
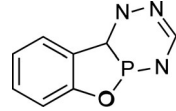
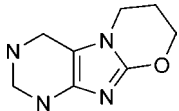
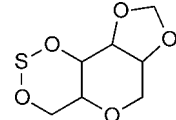
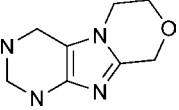


C₂N₂Se-C₅O-C₆
4H-5-Oxa-3-selena-1,2-diaza-
cyclopenta[a]naphthalene
6, 562f



C₃NS-C₅N-C₆
6H-9-Thia-8a-aza-fluorene
4, 578

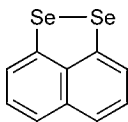


2,3,6,10b-Tetrahydro-5H-thiazolo[2,3-a]isoquinoline 4, 671 <i>t</i>		C ₃ N ₂ -C ₄ N ₂ -C ₅ N 1,2,3,4,9,9a-Hexahydro-4,4a,5,9-tetraaza-fluorene 12, 992–993	
C ₃ NSe-C ₅ N-C ₆ 3-Selena-1,6-diazacyclopenta[a]naphthalene 4, 791–821		5,6,7,8,8a,9-Hexahydro-1H-4,4b,9a-triaza-fluorene 12, 991 <i>f</i>	
C ₃ N ₂ -C ₂ N ₃ P-C ₆ 1,2,4a,9-Tetraaza-4-phospha-fluorene 11, 895–908		5,6,7,8-Tetrahydro-2,4,4b,9-tetraaza-fluorene 12, 997	
C ₃ N ₂ -C ₃ N ₂ O-C ₄ N ₂ 3,5,6,9-Tetrahydro-7-oxa-1,3,4,5,8a-pentaaza-cyclopenta[b]naphthalene 9, 461–462		C ₃ N ₂ -C ₄ N ₂ -C ₆ 2,3,5,10-Tetrahydro-1H-pyrazolo[1,2-b]phthalazine 4, 12	
C ₃ N ₂ -C ₃ N ₂ S-C ₆ 3,4-Dihydro-2H-1-thia-3,4a,9-triaza-fluorene 9, 500		C ₃ N ₂ -C ₅ N-C ₅ N Dipyrido[1,2-b;3',2'-d]pyrazole 12, 990	
C ₃ N ₂ -C ₃ N ₃ -C ₄ N ₂ 5,8,8a,9-Tetrahydro-1,3a,4,7,8,9-hexaaza-cyclopenta[b]naphthalene 10, 1117		6H-Dipyrido[1,2-c;2',1'-e]imidazole 12, 991	
C ₃ N ₂ -C ₅ N-C ₆ Imidazo[2,1-a]isoquinoline 4, 209		5H-Benzo[4,5]imidazo[1,2-a]pyridine 12, 994	
C ₃ N ₂ -C ₃ N ₃ -C ₅ N 1,2-Dihydro-1,5,6,8a,9-pentaaza-fluorene 12, 993		C ₃ N ₂ -C ₅ O-C ₆ 1,4,5a,9a-Tetrahydro-chromeno-[4,3-c]pyrazole 4, 25	
5,6-Dihydro-1H-1,2,6,7,8,9-hexaaza-cyclopenta[b]-naphthalene 10, 897		C ₃ OP-C ₂ N ₃ P-C ₆ 4,4a-Dihydro-1H-9-oxa-1,3,4-triaza-9a-phospha-fluorene 12, 537	
C ₃ N ₂ -C ₄ N ₂ -C ₄ NO 1,2,3,4,6,7-Hexahydro-5H-8-oxa-1,3,4b,9-tetraaza-fluorene 12, 994 <i>f</i>		C ₃ O ₂ -C ₃ O ₂ S-C ₅ O Hexahydro-1,3,5,7,9-pentaoxa-8-thia-cyclopenta[a]naphthalene 10, 889	
2,3,4,5,6,8-Hexahydro-1H-7-oxa-1,3,4b,9-tetraaza-fluorene 12, 996			

C₃Se₂-C₆-C₆

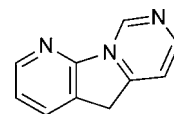
1,2-Discleena-acenaphthylene

4, 1094, 1097–1098, 1098–1099, 1099

C₄N-C₄N₂-C₅N

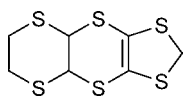
9H-3,4a,5-Triaza-fluorene

12, 990–991

C₃S₂-C₄S₂-C₄S₂

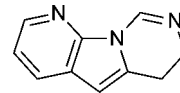
4a,6,7,8a-Tetrahydro-1,3,4,5,8,9-hexathia-cyclopenta[b]-naphthalene

8, 875



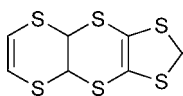
1,2-Dihydro-3,4a,5-triaza-fluorene

12, 995f



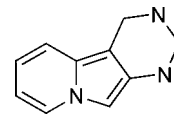
4a,8a-Dihydro-1,3,4,5,8,9-hexathia-cyclopenta[b]-naphthalene

4, 1005



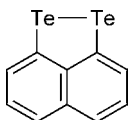
1,2,3,4-Tetrahydro-1,3,8a-triaza-fluorene

12, 995

C₃Te₂-C₆-C₆

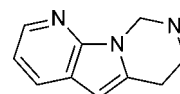
1,2-Ditellura-acenaphthylene

4, 1094



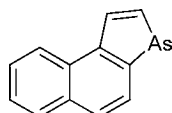
1,2,3,4-Tetrahydro-3,4a,5-triaza-fluorene

12, 995f



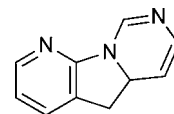
3H-3-Arsa-cyclopenta[a]-naphthalene

3, 1149–1179



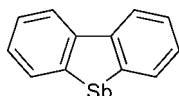
9,9a-Dihydro-3,4a,5-triaza-fluorene

12, 990–991

C₄Sb-C₆-C₆

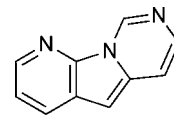
5H-Dibenzostibole

3, 1149–1179



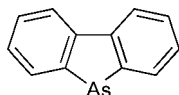
3,4a,5-Triaza-fluorene

12, 990–991



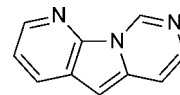
5H-Benzo[b]arsindole

3, 1149–1179



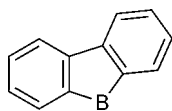
3,4a,5-Triaza-fluorene

12, 995

C₄B-C₆-C₆

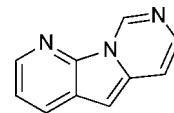
5H-Dibenzoborole

3, 1225–1241



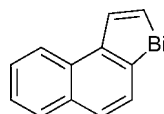
3,4a,5-Triaza-fluorene

12, 996

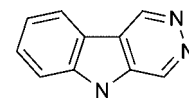


3H-3-Bisma-cyclopenta[a]-naphthalene

3, 1149–1179

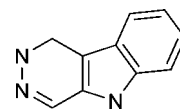
C₄N-C₄N₂-C₆
9H-2,3,9-Triaza-fluorene

8, 40



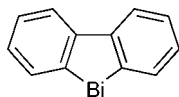
4,9-Dihydro-3H-2,3,9-triaza-fluorene

8, 21f



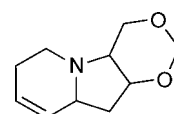
5H-Benzo[b]bismindole

3, 1149–1179

C₄N-C₄O₂-C₅N

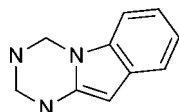
4a,5,6,8a,9,9a-Hexahydro-4H-1,3-dioxo-4b-aza-fluorene

12, 997

C₄N-C₃N₃-C₆

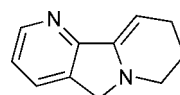
1,2,3,4-Tetrahydro-1,3,4a-triaza-fluorene

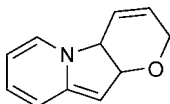
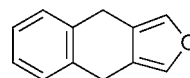
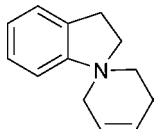
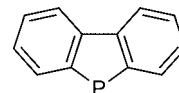
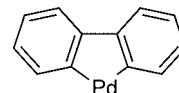
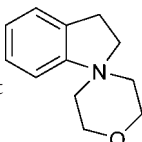
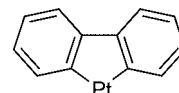
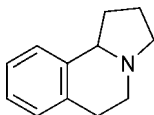
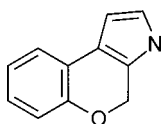
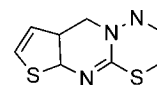
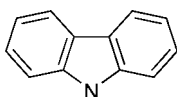
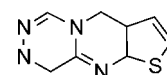
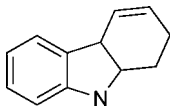
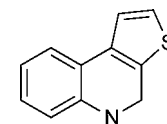
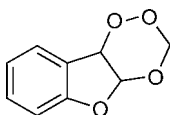
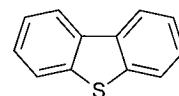
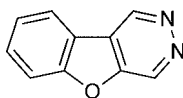
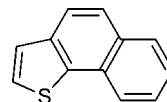
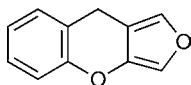
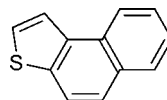
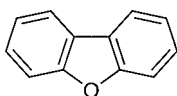
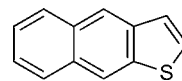
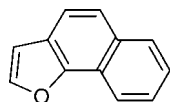
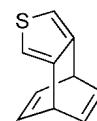
11, 641

C₄N-C₅N-C₅N

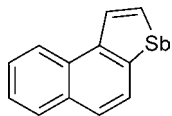
5,7,8,9-Tetrahydro-pyrido[2,3-a]indolizine

12, 991f

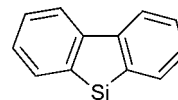


C₄N-C₅N-C₅O4a,9a-Dihydro-2H-1-oxa-
4b-aza-fluorene
12, 9934,9-Dihydro-naphtho[2,3-c]furan
3, 401C₄N-C₅N-C₆Spiro[indoline-1,2-hexeneum, salt
12, 1052fC₄P-C₆-C₆
5H-Dibenzophosphole
3, 1029–1147C₄Pd-C₆-C₆
Dibenzopalladiacyclopentadiene
3, 1287Spiro[indoline-1,4'-morpholinium], salt
12, 1052fC₄Pt-C₆-C₆
Dibenzoplatinacyclopentadiene
3, 12871,2,3,5,6,10b-Hexahydro-pyrrolo-
[2,1-a]isoquinoline
7, 291–292C₄N-C₅O-C₆3,4-Dihydro-5-oxa-3-aza-
cyclopenta[a]naphthalene
3, 62fC₄S-C₃N₂S-C₄N₂
3a,6,7,9a-Tetrahydro-4H,5H-
1,8-dithia-4a,5,9-triaza-
cyclopenta[b]naphthalene
12, 327–340C₄N-C₆-C₆9H-Carbazole
3, 1–43; 3, 269–351; 3,
45–268; 3, 269–351C₄S-C₃N₃-C₄N₂
3a,7,8,9a-Tetrahydro-4H-1-
thia-4a,6,7,9-tetraaza-
cyclopenta[b]naphthalene
12, 327–3402,4a,9,9a-Tetrahydro-1H-carbazole
3, 294C₄S-C₅N-C₆
4,5-Dihydro-thieno[2,3-c]quinoline
3, 775C₄O-C₃O₃-C₆4a,9a-Dihydro-1,3,4,9-
tetraoxa-fluorene
10, 506C₄S-C₆-C₆
Dibenzothiophene
3, 741–841; 3, 931–974;
3, 625–739; 3, 625–739; 3,
843–930C₄O-C₄N₂-C₆Benzo[4,5]furo[2,3-d]pyridazine
8, 40Naphtho[1,2-b]thiophene
3, 931–974C₄O-C₅O-C₆9H-2,4-Dioxa-cyclopenta[b]
naphthalene
3, 500Naphtho[2,1-b]thiophene
3, 931–974C₄O-C₆-C₆Dibenzofuran
3, 389–406; 3, 407–496; 3,
571–623Naphtho[2,3-b]thiophene
3, 931–974Naphtho[1,2-b]furan
3, 497–5694-Thia-tricyclo[5.2.2.0(2,6)]undeca-
2,5,8,10-tetraene
3, 752

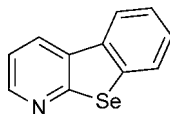
3H-3-Stiba-cyclopenta[a]
naphthalene
3, 1149–1179



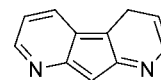
C₄Si-C₆-C₆
9H-Dibenzosilole
3, 1152



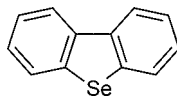
C₄Se-C₅N-C₆
9-Selena-1-aza-fluorene
3, 989–990



C₅-C₅N-C₅N
1H-Cyclopenta[1,2-b:4,3-b0]-
dipyridine
10, 1247



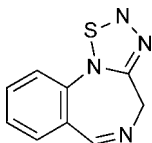
C₄Se-C₆-C₆
Dibenzoselenophene
3, 931; **6**, 542



5,6,7

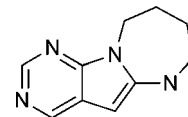
CN₃S-C₆-C₅N₂

2,4-Dihydro-1-thia-2,3,5,10b-tetraaza-benzo[e]azulene
6, 493



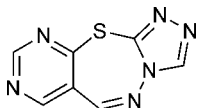
C₄N-C₄N₂-C₅N₂

6,7,8,9-Tetrahydro-5H-2,4,4b,9-tetraaza-benzo[a]azulene
13, 175



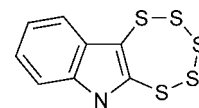
C₂N₃-C₄N₂-C₄N₂S

4-Thia-2,3,5,7,10,10a-hexaaza-benzo[f]azulene
013, 411f



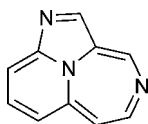
C₄N-C₆-C₂S₅

10H-5,6,7,8,9-Pentathia-10-aza-benzo[a]azulene
3, 166



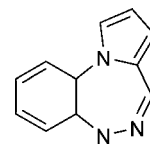
C₃N₂-C₅N-C₅N₂

2,8,9b-Triaza-benzo[cd]azulene
13, 205

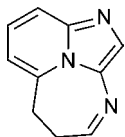


C₄N-C₆-C₄N₃

6a,10a-Dihydro-6H-5,6,10b-triaza-benzo[c]azulene
13, 473

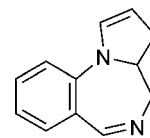


6,7-Dihydro-2,9,9b-triaza-benzo[cd]azulene
13, 172



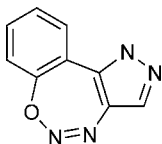
C₄N-C₆-C₅N₂

3a,4-Dihydro-3H-benzo[f]-pyrrolo[1,2-a][1,4]diazepine
4, 225

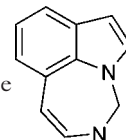


C₃N₂-C₆-C₄N₂O

1H-6-Oxa-1,2,4,5-tetraaza-benzo[e]azulene
13, 389

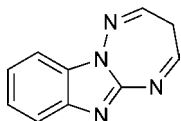


8,9-Dihydro-8,9a-diaza-benzo[cd]azulene
13, 175



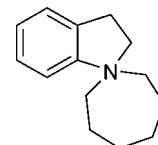
C₃N₂-C₆-C₄N₃

7H-4b,5,9,10-Tetraaza-benzo[a]azulene
13, 418f



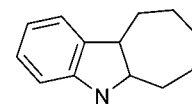
C₄N-C₆-C₆N

Spiro[indoline-heptenium], salt
12, 1052f



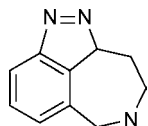
C₄N-C₆-C₇

5,5a,6,7,8,9,10,10a-Octahydro-cyclohepta[b]indole
3, 327



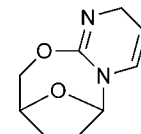
C₃N₂-C₆-C₆N

7,8,9,9a-Tetrahydro-6H-1,2,7-triaza-benzo[cd]azulene
13, 209



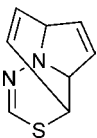
C₄O-C₄N₂-C₄NO₂

8,13-Dioxa-2,6-diaza-tricyclo[8.2.1.02,7]trideca-3,6-diene
14, 204



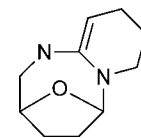
C₄N-C₃N₂S-C₇

11-Thia-8,9-diaza-tricyclo[5.4.0.0^{4,8}]-undeca-2,5,9-triene
13, 425f



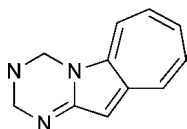
C₄O-C₅N-C₄N₂O

13-Oxa-2,8-diaza-tricyclo[8.2.1.02,7]tridec-6-ene
14, 173-174



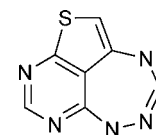
C₄N-C₃N₃-C₇

3,4-Dihydro-2H-1,3,4a-triaza-benzo[a]azulene
11, 639



C₄S-C₄N₂-C₄N₃

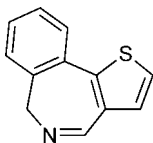
6,9-Dihydro-2-thia-3,5,6,7,9-pentaaza-benzo[cd]azulene
13, 420



C₄S-C₆-C₆N

6H-1-Thia-5-aza-benzo[e]azulene

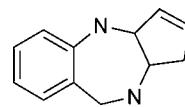
3, 751

C₅-C₆-C₅N₂

1,3a,4,9,10,10a-Hexahydro-

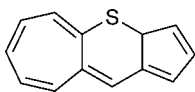
4,10-diaza-benzo[f]azulene

8, 349–350

C₅-C₅S-C₇

3aH-4-Thia-cyclohepta[f]indene

7, 860

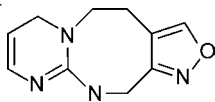


5,6,8

C₃NO-C₄N₂-C₆N₂

4,5,10,11-Tetrahydro-6H-2-oxa-
1,5a,9,10-tetraaza-benzo[a]-
cyclopenta[e]cyclooctene

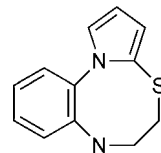
14, 184f



C₄N-C₆-C₅N₂S

7-Thia-2,10-diaza-tricyclo
[9.4.0.02,6]pentadeca-
1(11),3,5,12,14-pentaene

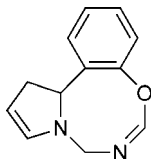
14, 493



C₄N-C₆-C₄N₂O

10-Oxa-6,8-diaza-tricyclo[9.4.0.02,6]
pentadeca-1(11),4,8,12,14-pentaene

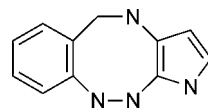
14, 499



C₄N-C₆-C₅N₃

4,5,10,11-Tetrahydro-1H-
1,4,10,11-tetraaza-benzo[a]
cyclopenta[e]cyclooctene

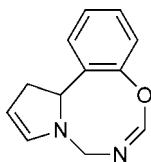
14, 492



C₄N-C₆-C₅N₂O

10-Oxa-6,8-diaza-tricyclo[9.4.0.02,6]
pentadeca-1(11),4,8,12,14-pentaene

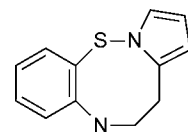
14, 499



C₄N-C₆-C₅N₃

5,6-Dihydro-4H-11-thia-
6,11a-diaza-benzo[a]
cyclopenta[d]cyclooctene

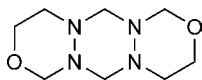
14, 492



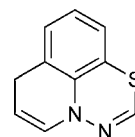
6,6,6

$C_2N_4-C_3N_2O-C_3N_2O$

Tetrahydro-2,6-dioxa-4a,8a,
9a,10a-tetraaza-anthracene
12, 1019

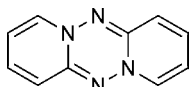


6H-1-Thia-3,3a-diaza-phenalene
12, 241



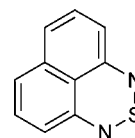
$C_2N_4-C_5N-C_5N$

4a,8a,9,10-Tetraaza-anthracene
12, 321–325



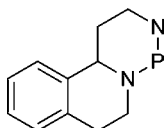
$C_3N_2S-C_6-C_6$

1H,3H-2-Thia-1,3-diaza-phenalene
9, 368, 383



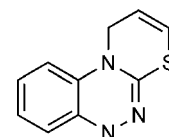
$C_3NOP-C_5N-C_6$

4,4a; 9,10-Tetrahydro-3H-2-
oxa-10a-aza-1-phospha-phenan-
threne
12, 248, 249



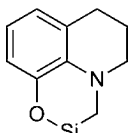
$C_3N_3-CN_4NS-C_6$

4H,9H-1-Thia-4a,9,10-triaza-
phenanthrene
12, 327–340



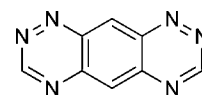
$C_3NOSi-C_5N-C_6$

2,3,5,6-Tetrahydro-4H-1-oxa-3a-
aza-2-sila-phenalene
12, 251



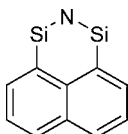
$C_3N_3-C_3N_3-C_6$

1,2,4,5,7,8-Hexaaza-anthracene
10, 1259f



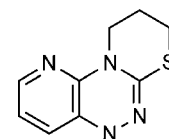
$C_3NSi_2-C_6-C_6$

2,3-Dihydro-1H-naphtho[1,8-cd]
[1,2,6]azadisilene
9, 940



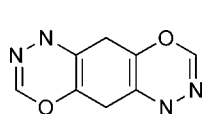
$C_3N_3-C_4NS-C_5N$

3,4-Dihydro-2H,9H-1-thia-
4a,5,9,10-tetraaza-phenanthrene
12, 327–340



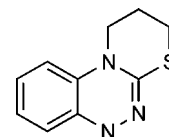
$C_3N_2O-C_3N_2O-C_6$

1,5,9,10-Tetrahydro-4,8-dioxa-
1,2,5,6-tetraaza-anthracene
9, 436



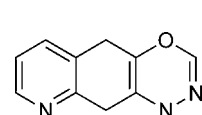
$C_3N_3-C_4NS-C_6$

3,4-Dihydro-2H,9H-1-thia-
4a,9,10-triaza-phenanthrene
12, 327–340

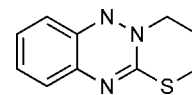


$C_3N_2O-C_5N-C_6$

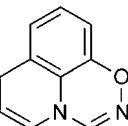
9,10-Dihydro-1H-4-oxa-
1,2,8-triaza-anthracene
10, 1259



3,4-Dihydro-2H,10H-1-thia-
4a,9,10-triaza-anthracene
12, 327–340

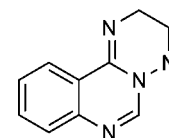


6H-1-Oxa-2,3a-diaza-phenalene
9, 317, 323



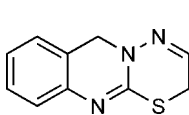
$C_3N_3-C_4N_2-C_6$

2,3-Dihydro-1H-1,4,9,10a-
tetraaza-phenanthrene
12, 327–340

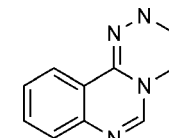


$C_3N_2S-C_4N_2-C_6$

2H,10H-1-Thia-4,4a,
9-triaza-anthracene
12, 327–340

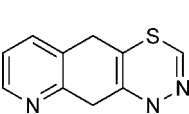


2,3-Dihydro-1H-3,4,9,10a-
tetraaza-phenanthrene
12, 327–340

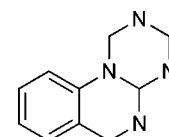


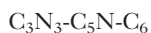
$C_3N_2S-C_5N-C_6$

9,10-Dihydro-1H-4-thia-
1,2,8-triaza-anthracene
10, 1259

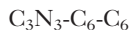
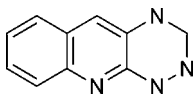


1,3,4,9,10,10a-Hexahydro-2H-
1,3,4a,10-tetraaza-phenanthrene
12, 327–340

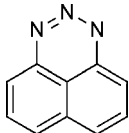




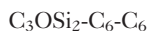
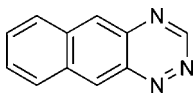
1,2,3,4-Tetrahydro-1,2,4,9-tetraaza-anthracene
10, 888^f



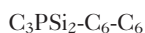
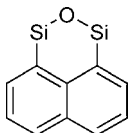
1H-Naphtho[1,8-de][1,2,3]triazine
9, 1-93



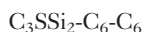
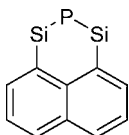
1,2,4-Triaza-anthracene
9, 95-196



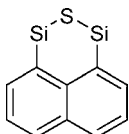
1,3-Dihydronaphtho[1,8-cd][1,2,6]oxadisilene
9, 940



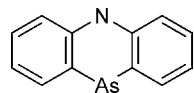
2,3-Dihydro-1H-naphtho[1,8-cd][1,2,6]phosphadisilene
9, 940



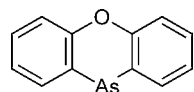
1,3-dihydronaphtho[1,8-cd][1,2,6]thiadisilene
9, 940



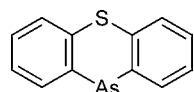
5,10-Dihydro-phenarsazine
9, 880



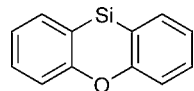
10H-Phenoxarsine
9, 875-911



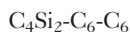
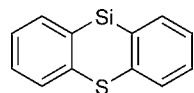
10H-Phenothiarsine
9, 875-911



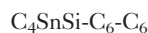
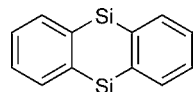
10H-dibenzo[b,c][1,4]oxasilene
9, 26-27, 26



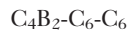
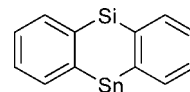
10H-Dibenzo[b,c][1,4]thiasilene
9, 26-27, 26



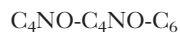
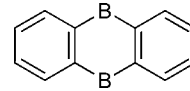
5,10-Dihydrosilanthrene
9, 26-27, 26



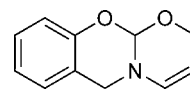
10H-dibenzo[b,c][1,4]stansilene
9, 26-27, 26



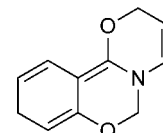
9,10-Dihydro-9,10-dibora-anthracene
9, 922, 922



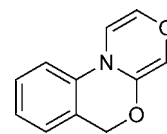
2H,10H-1,9-Dioxa-4a-aza-anthracene
12, 310



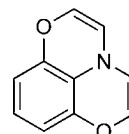
3H,7H-4,9-Dioxa-10a-aza-phenanthrene
12, 310



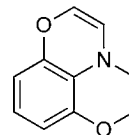
9H-2,10-Dioxa-4a-aza-phenanthrene
12, 310



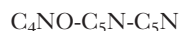
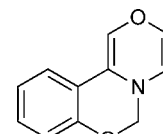
1,6-Dioxa-3a-aza-phenalene
12, 310



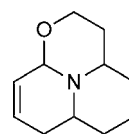
2,3-Dihydro-1,6-dioxa-3a-aza-phenalene
12, 310



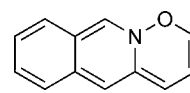
3,9-Dioxa-10a-aza-phenanthrene
12, 310



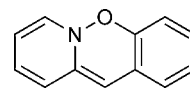
3,3a,4,5,6,6a,7,9a-Octahydro-2H-1-oxa-9b-aza-phenalene
12, 30^f

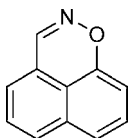
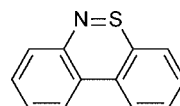
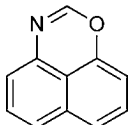
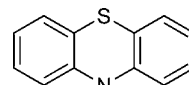
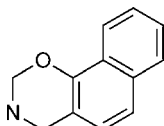
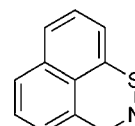
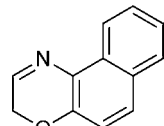
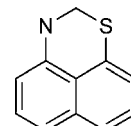
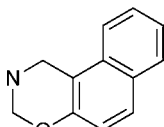
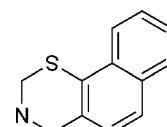
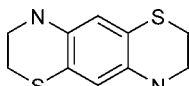
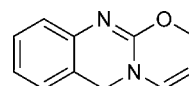
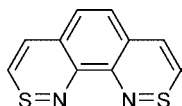
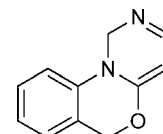
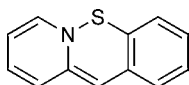
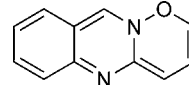
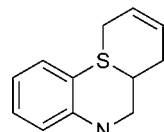
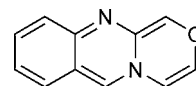
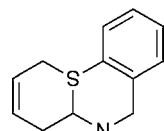
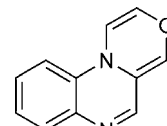
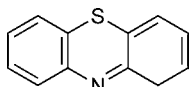
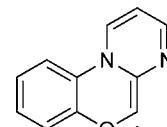
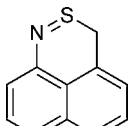
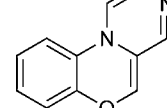


1-Oxa-9a-aza-anthracene
12, 77-217

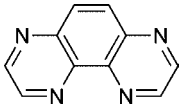
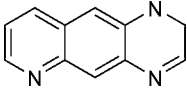
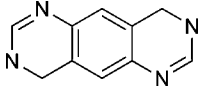
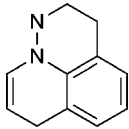
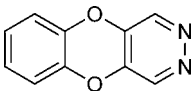
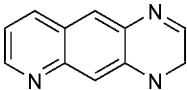
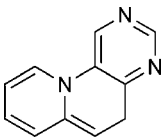
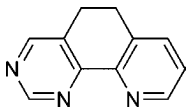
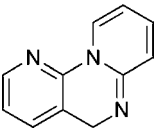
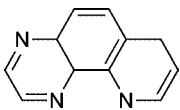
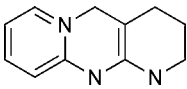
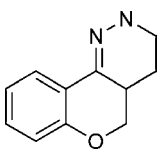
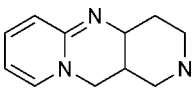
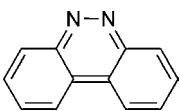
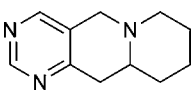
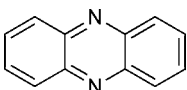
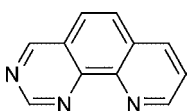
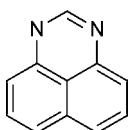
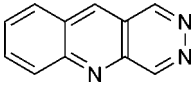
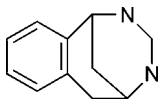
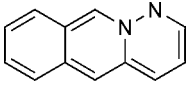
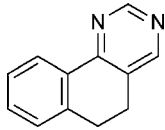
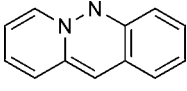
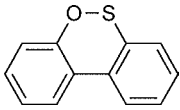
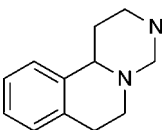


10-Oxa-4a-aza-anthracene
12, 77-217



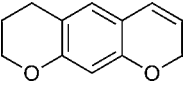
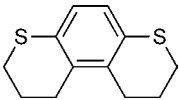
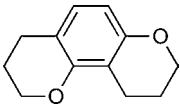
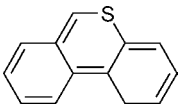
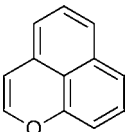
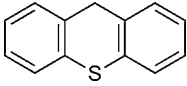
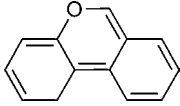
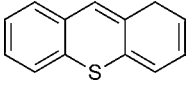
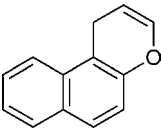
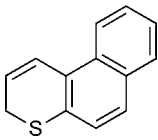
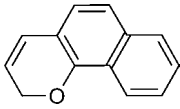
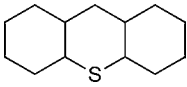
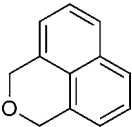
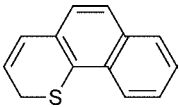
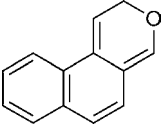
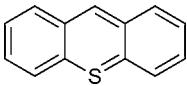
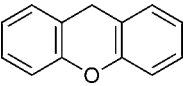
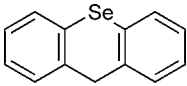
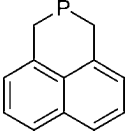
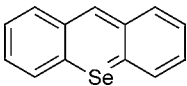
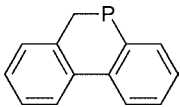
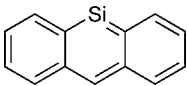
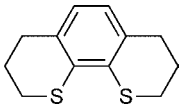
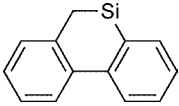
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8, 513–566Naphtho[1,8-de][1,3]oxazine
8, 37410H-Phenothiazine
8, 607–6753,4-Dihydro-2H-naphtho[2,1-c]
[1,3]oxazine
8, 380f2,3-Dihydro-naphtho[1,8-de]
[1,3]thiazine
8, 5443H-Naphtho[2,1-b][1,4]oxazine
8, 4772,3-Dihydro-naphtho[1,8-de]
[1,3]thiazine
8, 5682,3-Dihydro-1H-naphtho[1,2-c]
[1,3]oxazine
8, 380f, 382, 3993,4-Dihydro-2H-naphtho
[2,1-c][1,3]thiazine
8, 600C₄NS-C₄NS-C₆2,3,4,6,7,8-Hexahydro-1,5-dithia-
4,8-diaza-anthracene
8, 655C₄N₂-C₄NO-C₆2H,10H-1-Oxa-4a,9-diaza-
anthracene
12, 2613 λ^4 ,6 λ^4 -Dithia-4,5-diaza-
phenanthrene
8, 5394H,9H-10-Oxa-3,4a-diaza-
phenanthrene
12, 261C₄NS-C₅N-C₆10-Thia-4a-aza-anthracene
12, 77–2171-Oxa-9a,10-diaza-anthracene
12, 261C₄NS-C₅S-C₆1,4,4a,9,10,10a-Hexahydro-4a λ^4 -
thia-9-aza-phenanthrene
8, 607–6752-Oxa-4a,9-diaza-anthracene
12, 2611,4,4a,9,10,10a-Hexahydro-4a λ^4 -
thia-10-aza-phenanthrene
12, 497, 4972-Oxa-4a,9-diaza-phenanthrene
12, 294C₄NS-C₆-C₆1H-Phenothiazine
8, 607–6759-Oxa-1,4a-diaza-phenanthrene
12, 2613H-2 λ^4 -Thia-1-aza-phenalene
8, 555f9-Oxa-2,4a-diaza-phenanthrene
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C ₄ N ₂ -C ₄ NS-C ₅ N Decahydro-1-thia-8a,9a-diaza-anthracene 12, 1019f		1H-Pyrazino[1,2-a]quinoxaline 12, 261	
C ₄ N ₂ -C ₄ NS-C ₆ 2H,10H-1-Thia-4a,9-diaza-anthracene 12, 294		1H-1,9a,10-Triaza-anthracene 12, 261	
3H-9-Thia-4,10a-diaza-phenanthrene 12, 294		1H-2,9a,10-Triaza-anthracene 12, 261	
4H,9H-1-Thia-4a,10-diaza-phenanthrene 12, 294		2H-1,4a,9-Triaza-anthracene 12, 261	
10-Thia-2,4a-diaza-anthracene 12, 294		2H-2,4a,9-Triaza-anthracene 12, 261	
C ₄ N ₂ -C ₄ N ₂ -C ₄ N ₂ Dodecahydro-4,5,8a,10a-tetraaza-phenanthrene 12, 1023		3H-4,9,10a-Triaza-phenanthrene 12, 261	
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6,7,8,8a,9,10-Hexahydro-5H-1,4b;7,10-tetraaza-phenanthrene 12, 1022		4b,8a-Dihydro-4H-1,4a,10-triaza-phenanthrene 12, 261	
		5,10-Dihydro-pyrazino[2,3-g]quinoxaline 10, 1257	

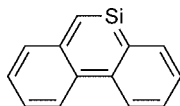
1,4,5,8-Tetraaza-phenanthrene 10, 1258		1,2-Dihydro-pyrido[2,3-g] quinoxaline 10, 1256–1257	
3,4,8,9-Tetrahydro- pyrimido[4,5-g]quinazoline 10, 1257		2,3-Dihydro-1H,7H- pyrido[3,2,1-ij]cinnoline 8, 76	
C ₄ N ₂ -C ₄ O ₂ -C ₆ 9,10-Dioxa-2,3-diaza-anthracene 8, 51f		3,4-Dihydro-pyrido[2,3-g] quinoxaline 10, 1256–1257	
C ₄ N ₂ -C ₅ N-C ₅ N 10H-1,3,4b-Triaza-phenanthrene 12, 1021		5,6-Dihydro-pyrido[3,2-h] quinazoline 10, 1256–1257	
10H-4,4b,9-Triaza-phenanthrene 12, 1021f		4a,7,10,10b-Tetrahydro- pyrido[2,3-f]quinoxaline 10, 1255–1256	
1,2,3,4,9,10-Hexahydro-1,9,10a- triaza-anthracene 12, 1019f		C ₄ N ₂ -C ₅ O-C ₆ 2,3,10,10a-Tetrahydro-1H- 9-oxa-3,4-diaza-phenanthrene 8, 34–35	
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C ₄ O ₂ -C ₅ O-C ₆ 2,3-Dihydro-6H-1,4,5-trioxa-anthracene 10, 1256		1,2,3,4,6,7,8,9-Octahydro-selenanthrene 9, 811	
2,3-Dihydro-6H-1,4,5-trioxa-phenanthrene 10, 1256-1257		C ₄ SSe-C ₆ -C ₆ 9-Thia-10-selena-anthracene 9, 811	
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C ₄ S ₂ -C ₆ -C ₆ Dibenzo[1,2]dithiine 8, 677-738		C ₅ B-C ₅ B-C ₅ B 9b-Boraphenalene 12, 573-633	
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C ₄ Se ₂ -C ₆ -C ₆ Selenanthrene 6, 542; 6, 549f; 9, 796, 817		C ₅ Ge-C ₆ -C ₆ 9-Germa-phenanthrene 7, 1042-1043; 7, 1061	
1,3-Diselena-phenalene 4, 1114		9-Germa-anthracene 7, 1042-1043	
		C ₅ N-C ₅ N-C ₅ N 9,10-Dihydro-8H-3,8a-diaza-phenanthrene 12, 1021f	

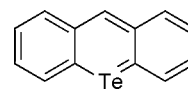
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4,4a,9,9a-Tetrahydro-1H,3H-2-oxa-7,8a-diaza-anthracene 12, 261		[1,7]Phenanthroline 10, 1248–1249	
9,9a-Dihydro-1H,4aH-2-oxa-8a-aza-anthracene 12, 1018 ^f ; 12, 52 ^f ; 12, 77–217		[4,7]Phenanthroline 10, 1248–1249, 1252–1254	
C ₅ N-C ₅ N-C ₆ 6H-Pyrido[1,2-a]quinoline 12, 25 ^f		[1,10]Phenanthroline 10, 1229–1268	
1,2,3,4,5,10-Hexahydro-pyrido[3,2-g]quinoline 10, 1243 ^f		1,4,6,9-Tetrahydro-pyrido[3,2-g]quinoline 10, 1248	
1,2,3,4-Tetrahydro-pyrido[3,2-g]quinoline 10, 1249		C ₅ N-C ₅ O-C ₆ 10H-9-Oxa-4-aza-phenanthrene 7, 247	
1,4-Dihydro-pyrido[3,2-g]quinoline 10, 1248–1249		C ₅ N-C ₅ S-C ₆ 3,4,9,10-Tetrahydro-2H-1-thia-8-aza-anthracene 10, 1254	
1,3,4,6,11,11a-Hexahydro-2H-pyrido[1,2-b]isoquinoline 12, 41		C ₅ N-C ₆ -C ₆ Acridine 7, 21	
1,3,4,6,7,11b-Hexahydro-2H-pyrido[2,1-a]isoquinoline 12, 1–75		Phenanthridine 7, 76–77	
1,4,6,9-Tetrahydro-pyrido[3,2-g]quinoline 10, 1248		C ₅ O-C ₅ O-C ₆ 8,12-Dioxa-tricyclo[7.3.1.0 ^{2,7}]trideca-2(7); 3,5-triene 14, 417	

3,4-Dihydro-2H,8H-pyrano[3,2-g]chromene 10, 1249–1250		2,3,4,5,6,7-Hexahydro-1,8-dithia-phenanthrene 10, 1260–1261	
3,4,9,10-Tetrahydro-2H,8H-pyrano[2,3-f]chromene 10, 1254		C ₅ S-C ₆ -C ₆ 1H-Dibenzo[b,d]thiin 7, 727–954	
C ₅ O-C ₆ -C ₆ Benzo[de]chromene 7, 337–418; 7, 419–699; 7, 701–726		10H-Dibenzo[b,e]thiin (9H-thioxanthene) 7, 727–954	
1H-Benzo[c]chromene 7, 337–418; 7, 419–699; 7, 701–726		1H-Thioxanthene 7, 727–954	
1H-Benzo[f]chromene 7, 337–418; 7, 419–699; 7, 701–726		3H-Benzo[f]thiochromene 7, 727–954	
2H-Benzo[h]chromene 7, 337–418; 7, 419–699; 7, 701–726		Dodecahydro-thioxanthene 7, 783f	
1H,3H-Benz[de]isochromene 7, 337–418; 7, 419–699; 7, 701–726		2H-Naphtho[1,2-b]thiin 7, 727–954	
2H-Benz[f]isochromene 7, 337–418; 7, 419–699; 7, 701–726		10λ ⁴ -Thioxanthene 7, 727–954	
9H-Xanthene 7, 337–418; 7, 419–699; 7, 701–726		C ₅ Se-C ₆ -C ₆ 10H-Dibenzo[b,e]selenin (9H-selenoxanthene) 7, 955–1001	
C ₅ P-C ₆ -C ₆ 2,3-Dihydro-1H-2-phospha-phenalene 7, 1017, 1019–1020		10λ ⁴ -Selenoxanthene 7, 955–1001	
9,10-Dihydro-9-phospha-phenanthrene 7, 1019–1020, 1023		C ₅ Si-C ₆ -C ₆ Dibenzo[b,e]siline 7, 1041	
C ₅ S-C ₅ S-C ₆ 1,2,3,6,7,8-Hexahydro-4,5-dithia-phenanthrene 10, 1260–1261		9,10-Dihydro-9-sila-phenanthrene 7, 1063	

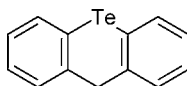
9-Sila-phenanthrene
7, 1063



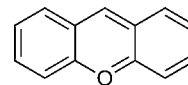
10 λ^4 -Telluroxanthene
7, 955–1001



C₅Te-C₆-C₆
10H-Dibenzo[b,c]tellurinin
(9H-telluroxanthene)
7, 955–1001



C₆O-C₆-C₆
Xanthylium
7, 337–418; 7, 419–699;
7, 701–726

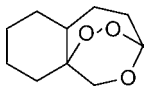


6,6,7

C₃O₃-C₆-C₅O₂

10,11,13-Trioxa-tricyclo[7.2.2.01,6]
tridecane

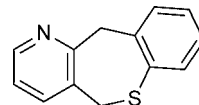
13, 399–431; 13, 80*f*



C₅N-C₆-C₆S

5,11-Dihydro-10-thia-4-aza-
dibenzo[a,d]cycloheptene

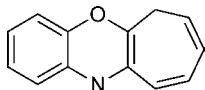
13, 124



C₄NO-C₆-C₇

6,11-Dihydro-5-oxa-11-aza-
cyclohepta[b]naphthalene

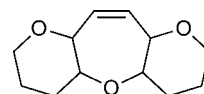
8, 463–464



C₅O-C₅O-C₆O

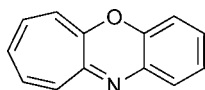
2,3,4,4a,5a,6,7,8,9a,11a-
Decahydro-1,5,9-trioxa-
dibenzo[a,d]cycloheptene

13, 63



5-Oxa-11-aza-cyclohepta[b]
naphthalene

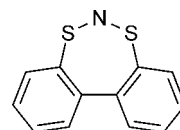
8, 475*f*, 493



C₆-C₆-C₄NS₂

5,7-Dithia-6-aza-
dibenzo[a,c]cycloheptene

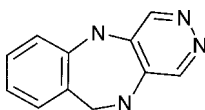
13, 396



C₄N₂-C₆-C₅NO

10,11-Dihydro-5-oxa-2,3,11-
triazza-dibenzo[a,d]cycloheptene

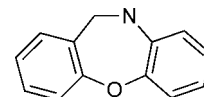
13, 273



C₆-C₆-C₅NO

10,11-Dihydro-dibenzo[b,f]
[1,4]oxazepine

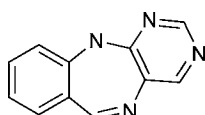
13, 275*f*



C₄N₂-C₆-C₅N₂

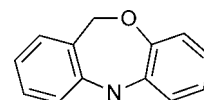
5H-2,4,5,11-Tetraaza-
dibenzo[a,d]cycloheptene

13, 214



1,2,3,5-Tetrahydro-
benzo[c][1,4]oxazepine

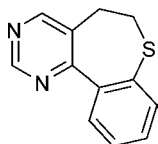
13, 277*f*



C₄N₂-C₆-C₆S

5,6-Dihydro-7-thia-1,3-diaza-
dibenzo[a,c]cycloheptene

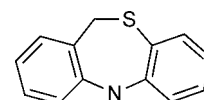
5, 283*f*



C₆-C₆-C₅NS

5,11-Dihydro-10-thia-5-aza-
dibenzo[a,d]cycloheptene

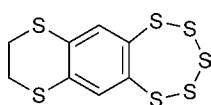
7, 7405



C₄S₂-C₆-C₂S₅

2,3-Dihydro-1,4,6,7,8,9,10-
heptathia-cyclohepta[b]
naphthalene

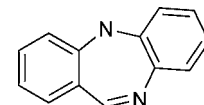
13, 543, 545



C₆-C₆-C₅N₂

5H-Dibenzo[b,c][1,4]diazepine

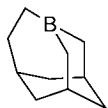
13, 195



C₅B-C₅B-C₆B

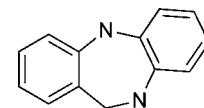
3-Bora-tricyclo[4.3.1.1^{3,8}]undecane

12, 573–633



10,11-Dihydro-5H-
dibenzo[b,e][1,4]diazepine

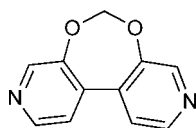
13, 212, 218



C₅N-C₅N-C₅O₂

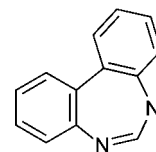
5,7-Dioxa-3,9-diaza-dibenzo[a,c]
cycloheptene

13, 355



5H-Dibenzo[d,f][1,3]diazepine

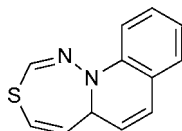
13, 170



C₅N-C₆-C₄N₂S

6aH-9-Thia-11,11a-diaza-
cyclohepta[a]naphthalene

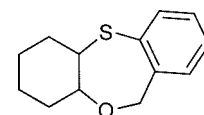
13, 426*f*



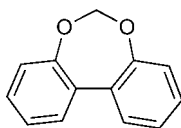
C₆-C₆-C₅OS

5a,6,7,8,9,9a-Hexahydro-
11H-10-oxa-5-thia-
dibenzo[a,d]cycloheptene

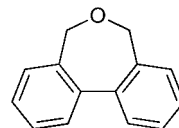
13, 375



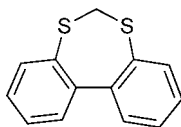
C₆-C₆-C₅O₂
5,7-Dioxa-dibenzo[a,c]
cycloheptene
13, 351f, 350, 356



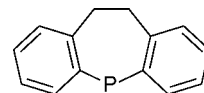
5,7-Dihydro-dibenzo[c,e]oxepine
13, 45–95



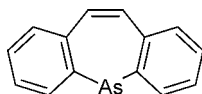
C₆-C₆-C₅S₂
5,7-Dithia-dibenzo[a,c]
cycloheptene
13, 350, 356, 357



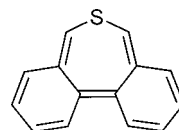
C₆-C₆-C₆P
10,11-Dihydro-5H-5-phospha-
dibenzo[a,d]cycloheptene
14, 919, 919



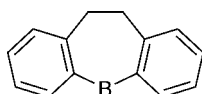
C₆-C₆-C₆As
5H-5-Arsa-dibenzo[a,d]
cycloheptene
14, 965



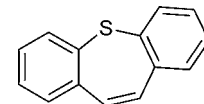
C₆-C₆-C₆S
Dibenz[c,e]thiepin
13, 97–141



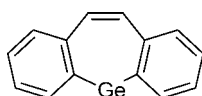
C₆-C₆-C₆B
10,11-Dihydro-5H-5-bora-
dibenzo[a,d]cycloheptene
14, 1046



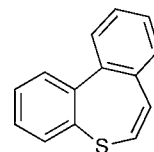
Dibenzo[b,f]thiepine
13, 97–141



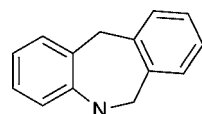
C₆-C₆-C₆Ge
5H-5-Germa-dibenzo[a,d]
cycloheptene
14, 985



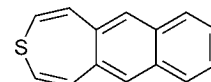
5-Thia-dibenzo[a,c]cycloheptene
13, 97–141



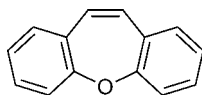
C₆-C₆-C₆N
6,11-Dihydro-5H-dibenzo[b,e]
azepine
1, 584–585



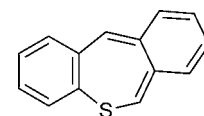
8-Thia-cyclohepta[b]
naphthalene
13, 131



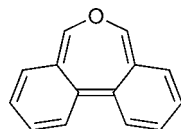
C₆-C₆-C₆O
Dibenzo[b,f]oxepine
13, 59



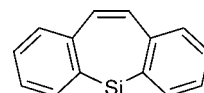
10-Thia-dibenzo[a,d]
cycloheptene
13, 97–141



Dibenz[c,e]oxepin
13, 45–95



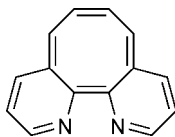
C₆-C₆-C₆Si
5H-5-Sila-dibenzo[a,d]
cycloheptene
14, 984



6,6,8

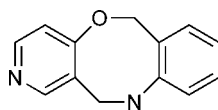
C₅N-C₅N-C₈

Cycloocta[1,2-b;8,7-b0]dipyridine
10, 1259–1260



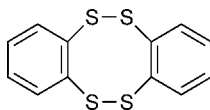
C₅N-C₆-C₆NO

11,12-Dihydro-6H-5-oxa-2,11-diaza-dibenzo[a,e]cyclooctene
14, 398



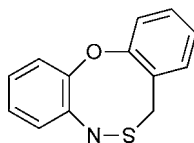
C₆-C₆-C₄S₄

5,6,11,12-Tetrathia-dibenzo[a,e]cyclooctene
8, 892; 14, 517–546

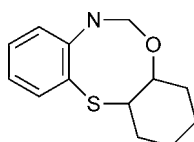


C₆-C₆-C₅NOS

5H,7H-12-Oxa-6-thia-5-aza-dibenzo[a,d]cyclooctene
14, 503

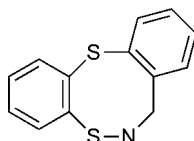


1,2,3,4,4a,6,7,12a-Octahydro-5-oxa-12-thia-7-aza-dibenzo[a,d]cyclooctene
14, 500



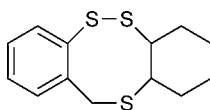
C₆-C₆-C₅NS₂

6,7-Dihydro-5,12-dithia-6-aza-dibenzo[a,d]cyclooctene
6, 55



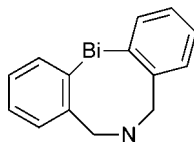
C₆-C₆-C₅S₃

6a,7,8,9,10,10a-Hexahydro-12H-5,6,11-trithia-dibenzo[a,e]cyclooctene
1, 406f



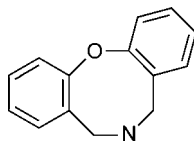
C₆-C₆-C₆BiN

5,6,7,12-Tetrahydro-6-aza-12-bisma-dibenzo[a,d]cyclooctene
14, 963

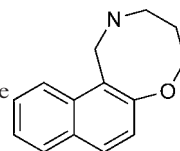


C₆-C₆-C₆NO

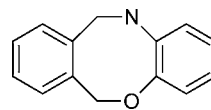
6,7-Dihydro-5H-12-oxa-6-aza-dibenzo[a,d]cyclooctene
14, 389, 394f, 398



9,10,11,12-Tetrahydro-8H-7-oxa-11-aza-cycloocta[a]naphthalene
14, 397f

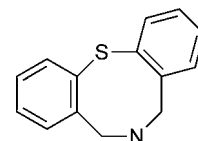


11,12-Dihydro-6H-5-oxa-12-aza-dibenzo[a,e]cyclooctene
14, 277

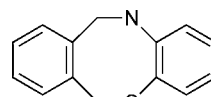


C₆-C₆-C₆NS

6,7-Dihydro-5H-12-thia-6-aza-dibenzo[a,d]cyclooctene
14, 409

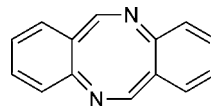


11,12-Dihydro-6H-5-thia-12-aza-dibenzo[a,e]cyclooctene
14, 281–282

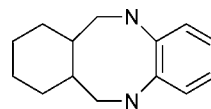


C₆-C₆-C₆N₂

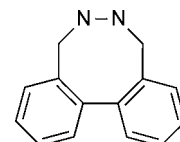
Dibenzo[b,f][1,5]diazocine
8, 404



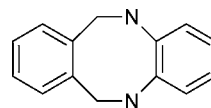
5,6,6a,7,8,9,10,10a,11,12-Decahydro-dibenzo[b,f][1,4]diazocine
14, 272



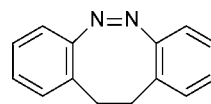
5,6,7,8-Tetrahydro-dibenzo[d,f][1,2]diazocine
14, 118



5,6,11,12-Tetrahydro-dibenzo[b,f][1,4]diazocine
14, 272

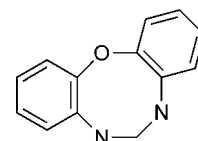


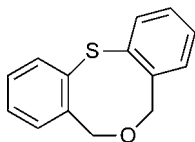
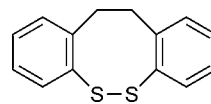
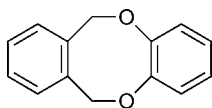
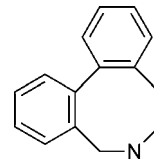
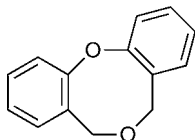
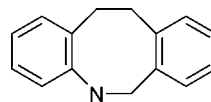
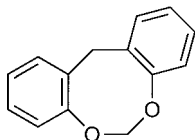
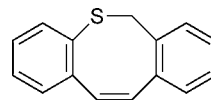
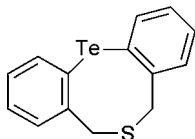
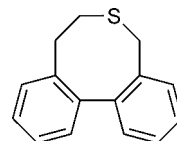
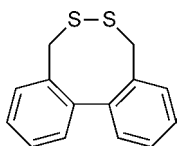
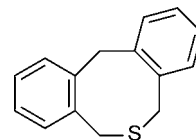
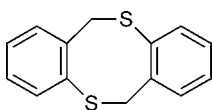
11,12-Dihydro-dibenzo[c,g][1,2]diazocine
14, 117



C₆-C₆-C₆N₂O

6,7-Dihydro-5H-12-oxa-5,7-diaza-dibenzo[a,d]cyclooctene
14, 499

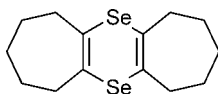


C₆-C₆-C₆OS5H,7H-6-Oxa-12-thia-
dibenzo[a,d]cyclooctene
14, 44311,12-Dihydro-5,6-dithia-
dibenzo[a,e]cyclooctene
14, 160C₆-C₆-C₆O₂2,3,4,5-Tetrahydro-
benzo[b]dioxocine
14, 289fC₆-C₆-C₇N5,6,7,8-Tetrahydro-
dibenzo[c,e]azocine
14, 8/55H,7H-6,12-Dioxa-
dibenzo[a,d]cyclooctene
14, 4175,6,11,12-Tetrahydro-
dibenzo[b,f]azocine
14, 3212H-5,7-Dioxa-
dibenzo[a,d]cyclooctene
14, 241fC₆-C₆-C₇S6H-5-Thia-dibenzo[a,e]
cyclooctene
14, 93C₆-C₆-C₆STe5H,7H-6-Thia-12-tellura-
dibenzo[a,d]cyclooctene
14, 8807,8-Dihydro-5H-6-thia-
dibenzo[a,c]cyclooctene
14, 94C₆-C₆-C₆S₂5,8-Dihydro-6,7-dithia-
dibenzo[a,c]cyclooctene
14, 1607,12-Dihydro-5H-6-thia-
dibenzo[a,d]cyclooctene
14, 946H,12H-Dibenzo[b,f]
[1,5]dithiocin
14, 451

6,7,7

C₄Se₂-C₇-C₇

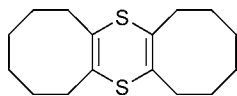
2,3,4,5,8,9,10,11-Octahydro-
1H,7H-6,12-diselena-
benzo[1,2;4,5]dicycloheptene
9, 811



6,8,8

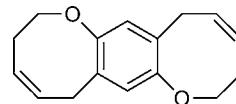
C₄S₂-C₈-C₈

1,2,3,4,5,6,8,9,10,11,12,13-
Dodecahydro-7,14-dithia-
benzo[1,2;4,5]dicyclooctene
1, 392



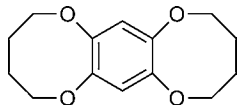
C₆-C₇O-C₇O

2,3,6,9,10,13-Hexahydro-
1,8-dioxa-benzo[1,2;4,5]
dicyclooctene
14, 66

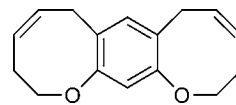


C₆-C₆O₂-C₆O₂

2,3,4,5,9,10,11,12-Octahydro-
1,6,8,13-tetraoxa-
benzo[1,2;4,5]dicyclooctene
14, 261–262



3,6,11,12-Tetrahydro-
2H,8H-1,13-dioxa-
benzo[1,2;4,5]dicyclooctene
14, 66



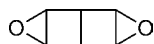
3,3,4,4

C₂O-C₂O-C₄-C₄

3,7-Dioxatetracyclo[3.3.0.0²,4.0⁶,8]

octane

1, 241



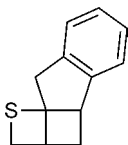
4,4,5,6

C₃S-C₄-C₅-C₆

2-Thia-benzo-tricyclo[4.3.0.01,4]

non-7-ene

2, 435–436



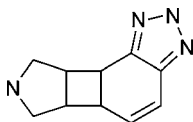
4,5,5,6

C₄-C₂N₃-C₄N-C₆

2,5a,5b,6,7,8,8a,8b-Octahydro-

1,2,3,7-tetraaza-cyclopenta[3,4]
cyclobuta[1,2-c]indene

5, 40–41



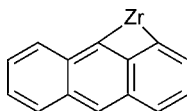
4,6,6,6

C₃Zr-C₆-C₆-C₆

1H-1-Zircona-cyclobuta[de]

anthracene

2, 593



4,6,6,7

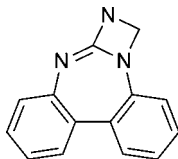
C₂N₂-C₆-C₆-C₅N₂

1,2-Dihydro-2,3,9b-triaza-

dibenzo[a,b]cyclobuta[c]

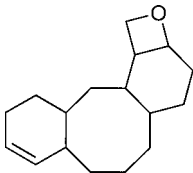
cycloheptene

2, 630–631

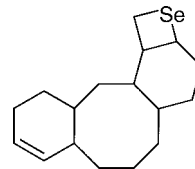


4,6,6,8

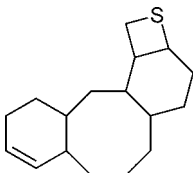
C₃O-C₆-C₆-C₈
 6-oxatetracyclo [11.3.1.0^λ
 3,10^λ.0^λ 4,7^λ] heptadec-
 13-en-2-yl
 2, 382



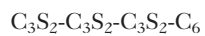
6-selenatetracyclo
 [11.3.1.0^λ,3,10^λ.0^λ4,7^λ]
 heptadec-13-en-2-yl
 2, 470



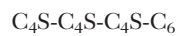
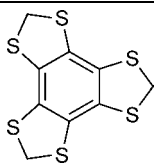
C₃S-C₆-C₆-C₈
 6-thia-tetracyclo [11.3.1.0^λ
 3,10^λ.0^λ 4,7^λ] heptadec-
 13-en-2-yl
 2, 436, 441–442, 453–454



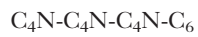
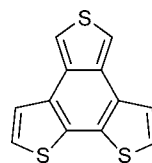
5,5,5,6



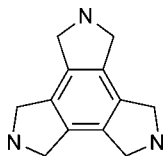
1,3,4,6,7,9-Hexathia-trindene
4, 962



1,5,9-Trithia-trindene
3, 889*f*

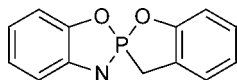


2,3,4,5,6,7,8,9-Octahydro-1H-
2,5,8-triaza-trindene
10, 1180–1181

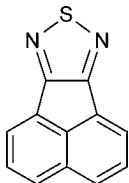


5,5,6,6

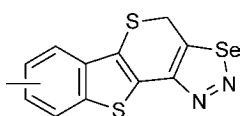
C₂NOP-C₃OP-C₆-C₆
1,6-Dioxo-4-aza-5λ⁵-
phospha-2,7-dibenzo-
spiro[4.4]nona-2,7-diene
12, 532–533



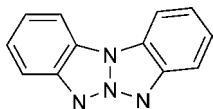
C₂N₂S-C₅-C₆-C₆
8-Thia-7,9-diaza-
cyclopenta[a]acenaphthylene
5, 528



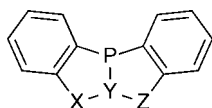
C₂N₂Se-C₄S-C₅S-C₆
4H-5,10-Dithia-3-selena-1,2-
diazacyclopenta[a]fluorene
6, 562f



C₂N₃-C₂N₃-C₆-C₆
5H,7H-Benzotriazolo[1,2-a]
benzotriazole
11, 199–305

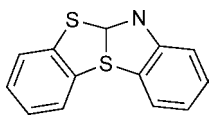


C₂P(X)(Y)-C₂P(Y)(Z)-C₆-C₆
9,10-9aλ⁴-Trishetero-4b-
phospha-indeno[1,2-a]indene
12, 537

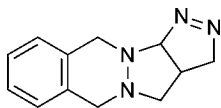


X, Y, Z = B, P, O, S, S

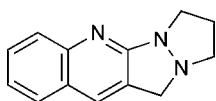
C₃NS-C₃S₂-C₆-C₆
9a,10-Dihydro-4bH-
4bλ⁴,9-dithia-10-aza-
indeno[1,2-a]indene
12, 501



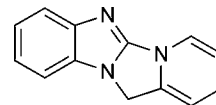
C₃N₂-C₃N₂-C₄N₂-C₆
1,3a,4,9,10,10a-Hexahydro-
2,3,3b,9a-tetraaza-
pentaleno[1,2-b]naphthalene
12, 822



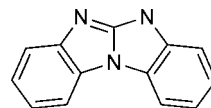
C₃N₂-C₃N₂-C₅N-C₆
2,3-Dihydro-1H,10H-3a,4,10a-
triazapentaleno[1,2-b]
naphthalene
12, 822f



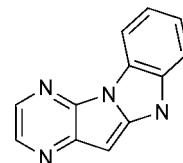
2,10-Dihydro-4a,5,9b-
triazaindeno[2,1-a]indene
12, 824f



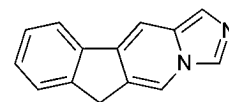
C₃N₂-C₃N₂-C₆-C₆
9H-4b,9,10-Triaza-
indeno[1,2-a]indene
11, 219



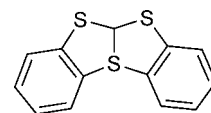
C₃N₂-C₄N-C₄N₂-C₆
9H-1,4,4b,9-Tetraaza-
indeno[1,2-a]indene
12, 801f



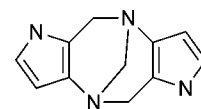
C₃N₂-C₅-C₅N-C₆
9H-2,10a-Diaza-
cyclopenta[b]fluorene
4, 217f



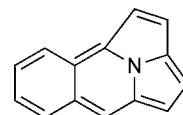
C₃S₂-C₃S₂-C₆-C₆
4b,9a-Dihydro-4bλ⁴; 9,10-
trithia-indeno[1,2-a]indene
12, 501; **4**, 983f



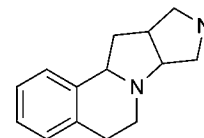
C₄N-C₄N-C₄N₂-C₄N₂
4,5,9,10-tetrahydro-1H,6H-
dipyrrolo-[3,2-b:3',2'-f][1,5]-
diazocin-2,7-dicarboxylate
14, 345f



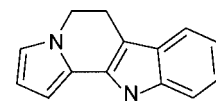
C₄N-C₄N-C₅N-C₆
Pyrrolizino[3,4,5-ab]isoquinoline
12, 838



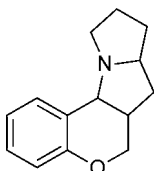
5,7a,8,9,10,10a; **11**,11a-
Octahydro-6H-pyrrolo[3',4':4,5]
pyrrolo[2,1-a]isoquinoline
12, 812–813



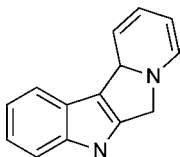
6,11-Dihydro-5H-
indolizino[8,7-b]indole
12, 32f



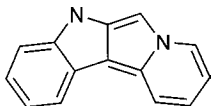
6a,7a,8,9,10,10b-Hexahydro-
6H,7H-5-oxa-10a-aza-
pentaleno[1,2-a]naphthalene
12, 801–802



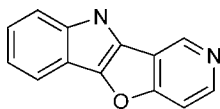
9,10-Dihydro-4cH-8a,10-diaza-
indeno[1,2-a]indene
12, 806



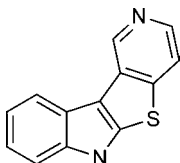
10H-8a,10-Diaza-indeno[1,2-a]
indene
10, 19



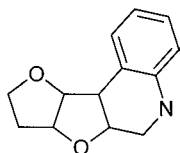
C₄N-C₄O-C₅N-C₆
5H-10-Oxa-3,5-diaza-
indeno[2,1-a]indene
12, 779^f



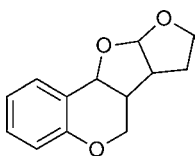
C₄N-C₄S-C₅N-C₆
9H-10-Thia-3,9-diaza-
indeno[1,2-a]indene
12, 780^f



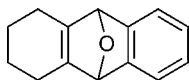
C₄O-C₄O-C₅N-C₆
6,6a,8,9,10a,10b-Hexahydro-
5H,7aH-7,10-dioxa-5-aza-
pentaleno[1,2-a]naphthalene
12, 785



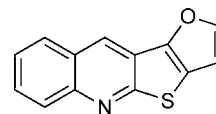
C₄O-C₄O-C₅O-C₆
6,6a,6b,7,8,9a-Hexahydro-
10aH-5,9,10-trioxa-
pentaleno[2,1-a]naphthalene
12, 790^f



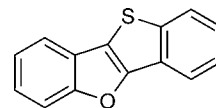
C₄O-C₄O-C₆-C₆
11-Oxa-9-benzo-tricyclo[6.2.1.0^{2,7}]
undeca-2(7),9-diene
1, 546



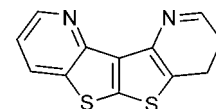
C₄O-C₄S-C₅N-C₆
3-Oxa-10-thia-9-aza-
pentaleno[1,2-b]naphthalene
12, 792



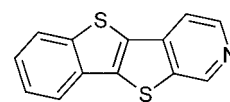
C₄O-C₄S-C₆-C₆
5-Oxa-10-thia-
indeno[2,1-a]indene
10, 12, 39



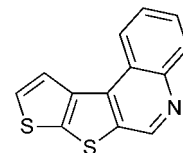
C₄S-C₄S-C₅N-C₅N
1,2-Dihydro-9,10-dithia-
4,5-diaza-indeno[1,2-a]indene
12, 788



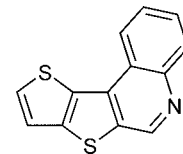
C₄S-C₄S-C₅N-C₆
5,10-Dithia-2-aza-
indeno[2,1-a]indene
12, 788



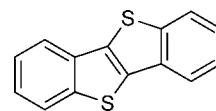
7,8-Dithia-5-aza-
pentaleno[1,2-a]naphthalene
12, 786



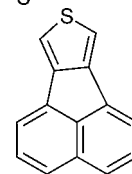
7,10-Dithia-5-aza-
pentaleno[1,2-a]naphthalene
12, 787^f



C₄S-C₄S-C₆-C₆
5,10-Dithia-indeno[2,1-a]
indene
10, 40; 3, 853



C₄S-C₅-C₆-C₆
8-Thia-cyclopenta[a]acenaphthylene
3, 901–902

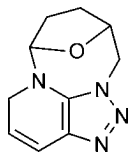


5,5,6,7

$C_2N_3-C_4O-C_5N-C_4N_2O$

7,8,9,10-Tetrahydro-5H,6H-
1,2,5a,10a-tetraaza-7,9-oxa-
cycloocta[cd]indene

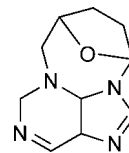
14, 182^f



$C_3N_2-C_4O-C_4N_2-C_4N_2O$

7,8,9,10-Tetrahydro-
5H,6H-2,4,5a,10a-tetraaza-7,9-
oxa-cycloocta[cd]indene

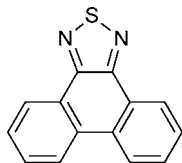
14, 180^f



5,6,6,6

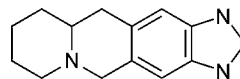
C₂N₂S-C₆-C₆-C₆

2-Thia-1,3-diaza-cyclopenta[l]
phenanthrene
5, 530



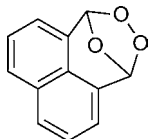
C₃O₂-C₅N-C₅N-C₆

6,7,8,9,9a,10-Hexahydro-
5H-1,3-dioxo-5a-aza-
cyclopenta[b]anthracene
12, 38f



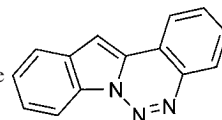
C₂O₃-C₅O-C₆-C₆

1,4-Epoxy-1H,4H-
naphtho[1,8-de][1,2]dioxepin
13, 313



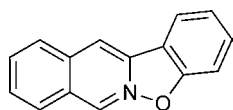
C₄N-C₃N₃-C₆-C₆

5,6,6a-Triaza-benzo[a]fluorene
11, 635



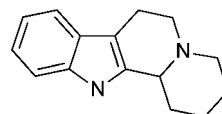
C₃NO-C₅N-C₆-C₆

11-Oxa-10a-aza-
benzo[b]fluorene
7, 50



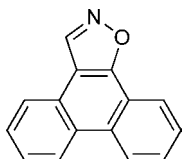
C₄N-C₅N-C₅N-C₆

1,2,3,4,6,7,12,12b-
Octahydro-indolo[2,3-a]
quinolizine
12, 51f

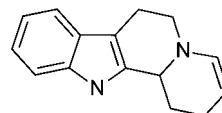


C₃NO-C₆-C₆-C₆

1-Oxa-2-aza-
cyclopenta[l]phenanthrene
4, 391

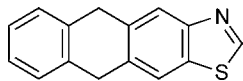


1,2,6,7,12,12b-Hexahydro-
indolo[2,3-a]quinolizine
12, 52f

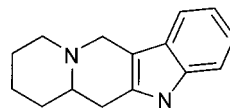


C₃NS-C₆-C₆-C₆

5,10-Dihydro-1-thia-3-
aza-cyclopenta[b]anthracene
4, 666

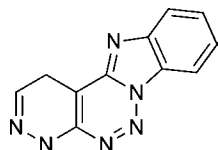


6,7,8,9,10,12-Hexahydro-
5H,6aH-indolo[2,3-b]
quinolizine
12, 36f

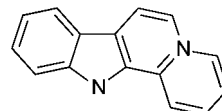


C₃N₂-C₃N₃-C₄N₂-C₆

1,4-Dihydro-3,4,5,6,6a,11-
hexaaza-benzo[a]fluorene
10, 1126

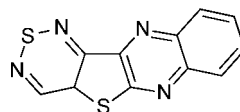


12H-Indolo[2,3-a]quinolizine
12, 32f



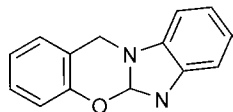
C₄S-C₃N₂S-C₄N₂-C₆

11aH-3,11-Dithia-2,4,5,10-
tetraaza-benzo[b]fluorene
9, 356, 391



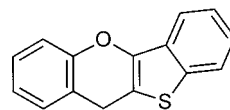
C₃N₂-C₄NO-C₆-C₆

10a,11-Dihydro-5H-10-oxa-
4b,11-diaza-benzo[b]fluorene
4, 202f



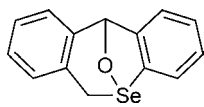
C₄S-C₅O-C₆-C₆

10H-5-Oxa-11-thia-benzo[b]
fluorene
3, 863f



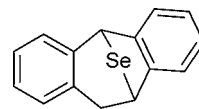
C₃OSe-C₄OSe-C₆-C₆

9-Oxa-1λ⁴-seleno-3,6-dibenzo-
bicyclo[3.3.1]nona-3,6-diene
4, 1103



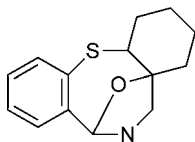
C₄Se-C₅Se-C₆-C₆

8-Selena-2,6-dibenzo-
bicyclo[3.2.1]octa-2,6-diene
12, 492

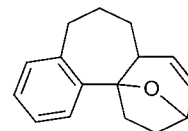


5,6,6,7

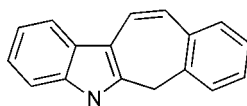
C₃NO-C₆-C₆-C₅OS
 13-Oxa-7-thia-11-aza-
 benzotricyclo[8.2.1.0^{1,6}]
 tridec-8-ene
14, 416^f



C₄O-C₅O-C₆-C₇
 13-Oxa-2-benzo-
 tricyclo[8.2.1.0^{1,7}]tridec-8-ene
3, 522



C₄N-C₆-C₆-C₇
 5,6-Dihydro-benzo[5,6]
 cyclohepta[1,2-b]indole
3, 105^f

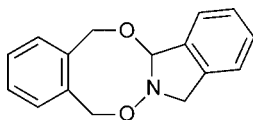


5,6,6,8

C₄N-C₆-C₆-C₅NO₂

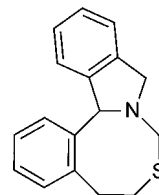
4b,6,7,8,9,11-Hexahydro-
5,10-dioxa-10a-aza-benzo
[7.8]cycloocta[a]indene

14, 495



4b,7,8,11-Tetrahydro-9-
thia-10a-aza-benz[5.6]
cycloocta[a]indene

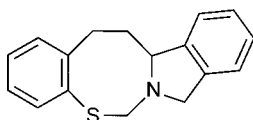
14, 195



C₄N-C₆-C₆-C₆NS

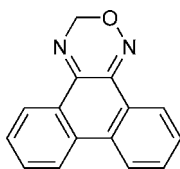
4b,5,6,11-Tetrahydro-9-
thia-10a-aza-benz[7.8]
cycloocta[a]inden

14, 231f

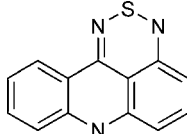


6,6,6,6

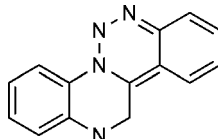
C₃N₂O-C₆-C₆-C₆
3H-2-Oxa-1,4-diaza-triphenylene
9, 348



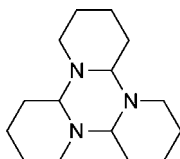
C₃N₂S-C₅N-C₆-C₆
3H,7H-2-Thia-1,3,7-triaza-
benzo[de]anthracene
10, 896



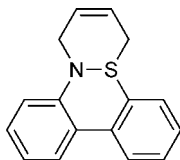
C₃N₃-C₄N₂-C₆-C₆
11,12-Dihydro-5H-4b,5,6,12-
tetraaza-chrysene
12, 327–340



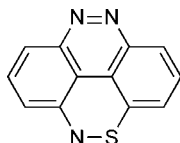
C₃N₃-C₅N-C₅N-C₅N
Dodecahydro-4a,8a,12a-
triaza-triphenylene
7, 194–195



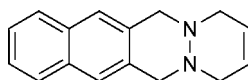
C₄NS-C₄NS-C₆-C₆
4,4a-Dihydro-1H-4aλ⁴-
thia-12b-aza-triphenylene
8, 540; 12, 494



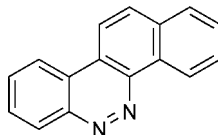
5H-4-Thia-5,9,10-triaza-pyrene
8, 72



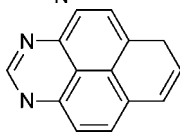
C₄N₂-C₄N₂-C₆-C₆
1,4,6,13-Tetrahydro-
benzo[g]pyridazino[1,2-b]
phthalazine
8, 37



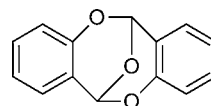
C₄N₂-C₆-C₆-C₆
5,6-Diaza-chrysene
8, 78



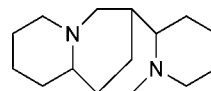
1,6-Dihydro-benzo[gh]perimidine
10, 65–127



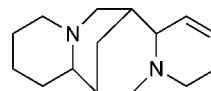
C₄O₂-C₄O₂-C₆-C₆
2,6,9-Trioxa-3,7-dibenzo-
bicyclo[3.3.1]nona-3,7-diene
14, 441f



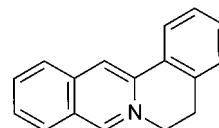
C₅N-C₅N-C₅N-C₅N
Dodecahydro-7,14-methano-
dipyrido[1,2-a;1',2'-c][1,5]
diazocine
14, 334f, 342, 347f



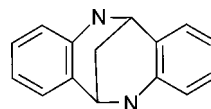
1,3,4,7,7a,10,11,13,14,14a-
Decahydro-2H,6H-7,14-
methano-dipyrido[1,2-a;1',2'-c]
[1,5]diazocine
14, 331f, 333f, 342, 347f



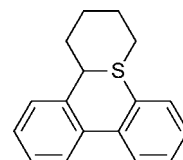
C₅N-C₅N-C₆-C₆
5,6-Dihydro-isoquino[3,2-a]
isoquinoline
12, 47



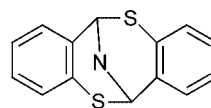
5,6,11,12-Tetrahydro-6,12-
methano-dibenzo[b,f][1,5]
diazocine
14, 306, 343



C₅S-C₅S-C₆-C₆
1,2,3,4,4a,12b-Hexahydro-
4aλ⁴-thia-triphenylene
12, 485, 488



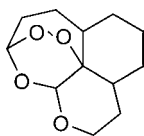
C₆-C₆-C₄NS-C₄NS
6H,12H-Dibenzo[b,f][1,5]
dithiocin-6,12-imine
14, 462f



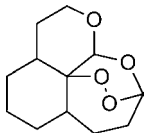
6,6,6,7

C₃O₃-C₅O-C₆-C₅O₂

Dodecahydro-1,10-dioxa-9,10b-
epoxy-cyclohepta[de]naphthalene
10, 847–913; 13, 299–319;
9, 597, 599, 617

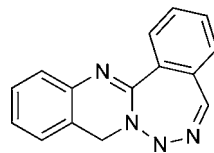


9, 597, 599, 617



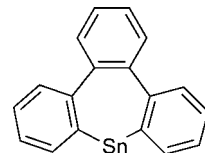
C₄N₂-C₆-C₆-C₄N₃

7,8-Dihydro-6,7,7a,13-
tetraaza-benzo[3,4]cyclohepta
[1,2-b]naphthalene
13, 389*f*



C₆-C₆-C₆-C₆Sn

9H-9-Stanna-tribenzo[a,c,e]
cycloheptene
14, 986

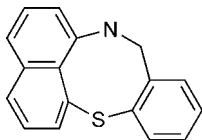


6,6,6,8

C₆-C₆-C₆-C₆NS

10,11-Dihydro-7-thia-11-
aza-benz[8.9]cycloocta[de]
naphthalene

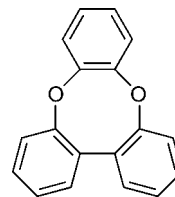
14, 415



C₆-C₆-C₆-C₆O₂

Tribenzo[b,e,g][1,4]dioxocine

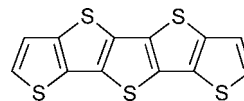
14, 290^f



5,5,5,5,5

C₄S-C₄S-C₄S-C₄S-C₄S

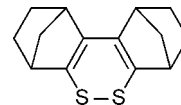
3,4,5,8,9-Pentathia-cyclopenta[1,2-a;4,3-a']dipentalene
0311



5,5,5,5,6

C₅-C₅-C₅-C₅-C₄S₂

1,2,3,4,7,8,9,10-Octahydro-1,4:7,10-dimethanodibenzo[c,c][1,2]dithiin,
8, 677–738

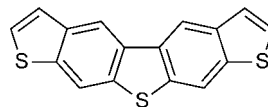


5,5,5,6,6

C₄S-C₄S-C₄S-C₆-C₆

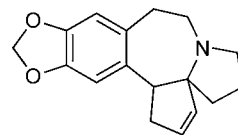
Di(thiopheno)[b,d]thiophene

10, 1171



5,5,5,6,7

C₃O₂-C₄N-C₅-C₆-C₆N
Cephalotaxine
1, 163

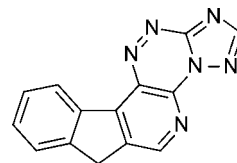


5,5,6,6,6

C₂N₃-C₅-C₃N₃-C₅N-C₆

1H-Indeno[1',2':4,5]pyrido[2,3-c][1,2,4]triazolo[5,1-c][1,2,4]triazine

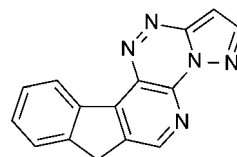
10, 888f



C₃N₂-C₅-C₃N₃-C₅N-C₆

1H-Indeno[1',2':4,5]pyrido[2,3-c]pyrazolo[5,1-c][1,2,4]triazine

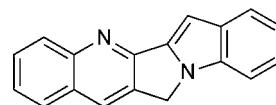
10, 888f



C₄N-C₄N-C₅N-C₆-C₆

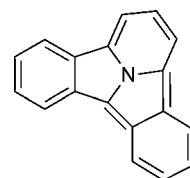
5H-4b,11-Diaza-benzo[4,5]pentaleno[1,2-b]naphthalene

12, 794



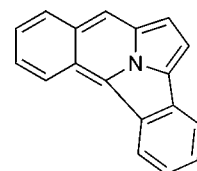
11c-Aza-indeno[1,2,3-jk]fluorene

12, 838



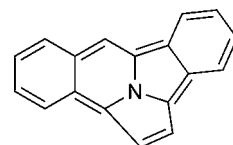
Benzo[1,2]pyrrolizino[3,4,5-ab]isoquinoline

12, 838



Benzo[6,7]pyrrolizino[3,4,5-ab]isoquinoline

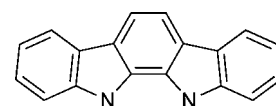
12, 838



C₄N-C₄N-C₆-C₆-C₆

11,12-Dihydro-11,12-diaza-indeno[2,1-a]fluorene

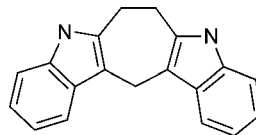
10, 1171, 1172



5,5,6,6,7

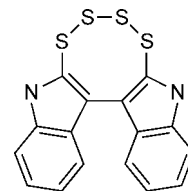
C₄N-C₄N-C₆-C₆-C₇

6,7,8,13-tetrahydro-5H-Cyclohepta[1,2-b:5,4-b']diindole,
10, 1189



5,5,6,6,8

C₄N-C₄N-C₆-C₆-C₄S₄
5,10-dihydro-[1,2,3,4]Tetrathiocino[5,6-b:8,7-b']diindole,
3, 167–168

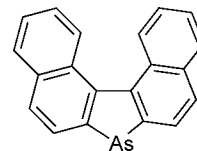


5,6,6,6

C₄As-C₆-C₆-C₆-C₆

7H-7-Arsa-dibenzo[c,g]fluorene

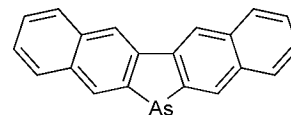
3, 1149–1179



C₄(As)-C₆-C₆-C₆-C₆

12H-12-Arsa-dibenzo[b,h]fluorene

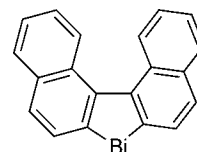
3, 1149–1179; 14, 261



C₄Bi-C₆-C₆-C₆-C₆

7H-7-Bisma-dibenzo[c,g]fluorene

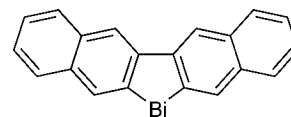
3, 1149–1179



C₄(Bi)-C₆-C₆-C₆-C₆

12H-12-Bisma-dibenzo[b,h]fluorene

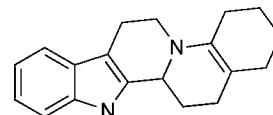
3, 1149–1179; 14, 261



C₄N-C₅N-C₅N-C₆-C₆

1,2,3,4,5,6,11,11b; 12,13-Decahydro-4b,11-diaza-indeno[2,1-a]phenanthrene

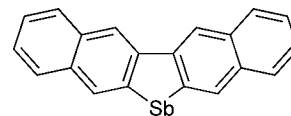
12, 56



C₄(Sb)-C₆-C₆-C₆-C₆

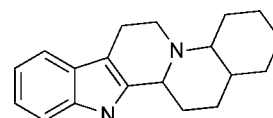
12H-12-Stiba-dibenzo[b,h]fluorene

3, 1149–1179; 14, 261



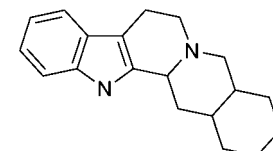
1,2,3,4,4a,5,6,11,11b,12,13,13a-Dodecahydro-4b,11-diaza-indeno[2,1-a]phenanthrene

12, 57f

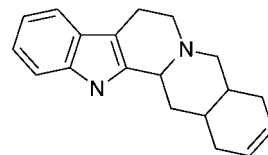


1,2,3,4,4a,5,7,8,13,13b,14,14a-Dodecahydro-indolo[2',3':3,4]pyrido[1,2-b]isoquinoline

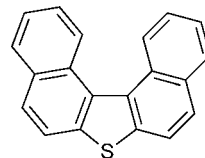
12, 38f



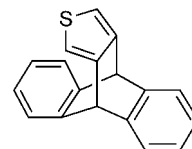
1,4,4a,5,7,8,13,13b,14,14a-Decahydro-indolo[2',3':3,4]pyrido[1,2-b]isoquinoline
12, 37



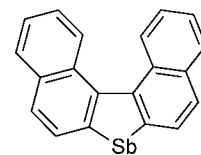
C₄S-C₆-C₆-C₆-C₆
7-Thia-dibenzo[c,g]fluorene
3, 879^f



4-Thia-8,10-dibenzo-tricyclo[5.2.2.0^{2,6}]undeca-2,5,8,10-tetraene
3, 752

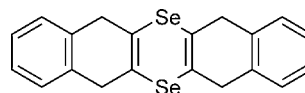


C₄Sb-C₆-C₆-C₆-C₆
7H-7-Stiba-dibenzo[c,g]fluorene
3, 1149–1179

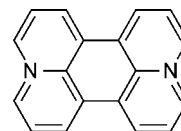


6,6,6,6

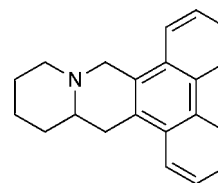
$C_4Se_2-C_6-C_6-C_6-C_6$
5,7,12,14-Tetrahydro-6,13-diselena-pentacene
9, 819*f*



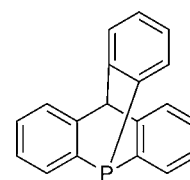
$C_5N-C_5N-C_5N-C_5N-C_6$
3a,9a-Diaza-perylene
12, 52*f*



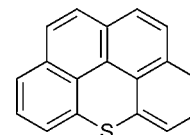
$C_5N-C_5N-C_6-C_6-C_6$
9,10,11,12,13,14-Hexahydro-9aH-13a-aza-benzo[b]triphenylene
12, 48*f*



$C_5P-C_5P-C_6-C_6-C_6$
10H-5,10[1',2']-Benzenoacridophosphine
7, 1018–1019, 1020



$C_5S-C_6-C_6-C_6-C_6$
6-Thia-benzo[cd]pyrene
7, 753

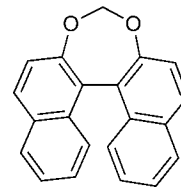


6,6,6,6,7

$C_6-C_6-C_6-C_6-C_5O_2$

3,5-Dioxa-cyclohepta[2,1-a;3,4-a']dinaphthalene

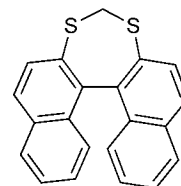
13, 355



$C_6-C_6-C_6-C_6-C_5S_2$

3,5-Dithia-cyclohepta[2,1-a;3,4-a']dinaphthalene

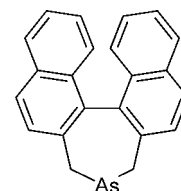
13, 349, 350



$C_6-C_6-C_6-C_6-C_6As$

4,5-Dihydro-3H-4-arsa-cyclohepta[2,1-a;3,4-a']dinaphthalene

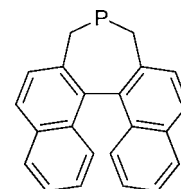
14, 962



$C_6-C_6-C_6-C_6-C_6P$

4,5-Dihydro-3H-4-phospha-cyclohepta[2,1-a;3,4-a']dinaphthalene

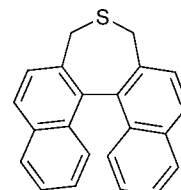
14, 901-944



$C_6-C_6-C_6-C_6-C_6S$

3,5-Dihydro-4-thia-cyclohepta[2,1-a;3,4-a']dinaphthalene

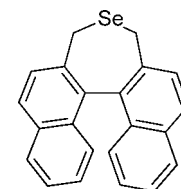
13, 125-126, 129-130



$C_6-C_6-C_6-C_6-C_6Se$

3,5-Dihydro-4-selena-cyclohepta[2,1-a;3,4-a']dinaphthalene

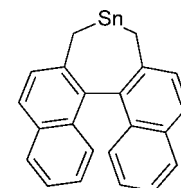
14, 877f, 877-878



$C_6-C_6-C_6-C_6-C_6Sn$

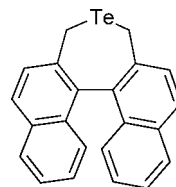
4,5-Dihydro-3H-4-stanna-cyclohepta[2,1-a;3,4-a']dinaphthalene

14, 986



C₆-C₆-C₆-C₆-C₆Te

3,5-Dihydro-4-tellura-cyclohepta[2,1-a;3,4-a']dinaphthalene

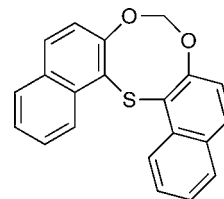
14, 879

6,6,6,6,8

C₆-C₆-C₆-C₆-C₅O₂S

5,7-Dioxa-12-thia-dinaphtho[a,d]cyclooctene

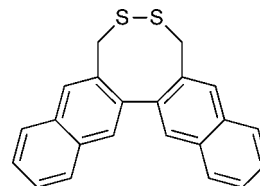
14, 499–500



C₆-C₆-C₆-C₆-C₆S₂

5,8-Dihydro-6,7-dithia-dinaphtho[a,c]cyclooctene

14, 160



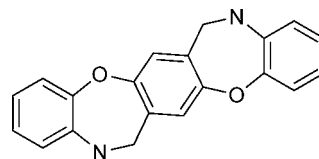
6,6,6,7,7

C₆-C₆-C₆-C₅NO-C₅NO

7,8,15,16-Tetrahydro-5,13-dioxa-8,16-diaza-dibenzo[d,d']benzo

[1,2-a;4,5-a']dicycloheptene

13, 273

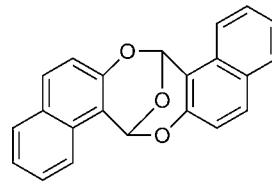


6,6,6,6,6,6

C₄O₂-C₄O₂-C₆-C₆-C₆-C₆

8,16-Epoxy-8H,16H-dinaphtho[2,1-b:29,19-f][1,5]dioxocine

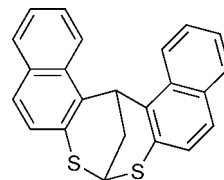
14, 441*f*



C₅S-C₅S-C₆-C₆-C₆-C₆

2,8-Dithia-3,6-dinaphtho-bicyclo[3.3.1]nona-3,6-diene

14, 233*f*



6,6,6,6,6,8

C₆-C₆-C₆-C₆-C₆-C₆O₂

5,8-dioxa-6,7-benzo-dinaphtho[a,c]cyclooctene

14, 261

