

Ring Index

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with assistance of

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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.

3

AsCP Phospharsirane 1, 718		CGe ₂ Digermirane 1, 749–793	
AsSiTe 1H-Tellurarsasilirene 1, 679–693		ClrSi 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 Phosphaferracyclopropane 1, 749–793		CMnP Phosphamanganacyclopropane 1, 749–793	
CFeS Thiaferracyclopropane 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 Phosphsmacyclopropane 1, 749–793	
Azatumgacyclopropane 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, 719		Disilirene 1, 770	
CPSe Selenaphosphirene 1, 679–693		CSn ₂ Distannirane 1, 786	
CPSi Phosphasilirane 1, 773–774		CS ₂ Dithiirane 1, 641–677	
CPW Phosphatungstacyclopropane 1, 749–793		Dithiirane 1, 641–677	
CPb ₂ Diplumbirane 1, 770		C ₂ B Borirane 1, 513–537	
CPdS Thiapalladacyclopropane 1, 749–793		1H-Borirene 1, 513–537	
CP ₂ Diphosphirane 1, 695–747, 696, 720, 733		C ₂ Ge Germirane 1, 483–512	
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3H-Diphosphirene 1, 713, 720, 733		1H-Azirine 1, 82; 1, 105–172; 4, 522, 8, 500	
CSW Thiatungstacyclopropane 1, 749–793		2H-Azirene 1, 105–172, 151; 6, 155f; 6, 165f	
CSZr Thiazirconacyclopropane 1, 749–793		C ₂ O Oxirane 1, 173–233; 2, 351, 2, 783, 784	
CSeSi Selenasilirene 1, 641–677		Oxirene 1, 173–233, 215; 6, 153f; 6, 169f; 6, 182–183	
CSiW Silatungstacyclopropane 1, 749–793		C ₂ P Phosphirane 1, 457–481	
CSi ₂ Disilirane 1, 770		1H-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
Trigermilicyclopropane
2, 955; 3, 1206



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



1H-Trigermirene
2, 964



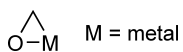
C₂Sn
1H-Stannirene
1, 483–512



PSeC
Selenaphosphorirane
1, 679–693




























C(M)O
Metallaoxirane
1, 749–793






























Si₃
Trisilacyclopropane
2, 955



























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
























C(X)(Y)(Z) 1,2,3-Trisheteroactane 2, 939–972	 X, Y, Z = O, S, N, P, As, Se, Ge Sn	[1,3]Digermetane 2, 907–938	
1,2,3-Trisheteroactene 2, 939–972	 X, Y, Z = O, S, N, P, As, Se, Ge Sn	[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]Diazetidene 2, 623–687		[1,3]Selenaphosphetane 2, 853–874	
[1,3]Diazetidene 2, 623–687		C ₂ PSi 1,2-Dihydro-[1,2]phosphasiletane 1, 701f; 2, 907–938; 2, 907–938	
C ₂ OS 1,2-Oxathietane 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-Oxasiletane 2, 907–938		C ₂ SSi 2H-1,2-Thiasiletane 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	

C ₂ Se ₂ 1,2-Diselenete 2, 853–874		Metallacyclobutenes 2, 555–621	 M = W, Mo, Ti, Re, Os, Ir, Pt, Pd
1,3-Diselenetane 2, 853–874		Boretane 2, 555–621	
[1,2]Diselenetane 2, 853–874		C ₃ (M) Metallacyclobutanes 2, 555–621	 M = W, Mo, Ti, Re, Os, Ir, Pt, Pd
C ₂ Si ₂ 1,2-Dihydro-1,2-Disilete 1, 508–509		C ₃ As Arsete 2, 479–512	
1,2-Disilete 2, 853–874; 2, 907–938		Arsete 2, 555–621	
[1,3]Disiletane 2, 521		C ₃ B Borete 2, 555–621	
[1,3]Disiletane 2, 907–938, 910, 918, 918, 921, 922		C ₃ B Boretane 2, 555–621	
C ₂ SnTe [1,2]Tellurastannetane 2, 853–874		C ₃ Bi Bismuthete 2, 479–512; 2, 555–621	
C ₂ S ₂ 1,3-Dithietane 2, 811–852; 6, 469f; 6, 476f		C ₃ Co 1-Cobaltacyclobuta-1,3-diene 2, 555–621	
1,2-Dithiete 2, 811–852		C ₃ Fe 1-Ferracyclobuta-1,3-diene 2, 555–621	
[1,2]Dithietane 2, 811–852		C ₃ Ge Germetane 2, 513–554	
C ₂ Te ₂ 1,3-Ditelluretane 2, 853–874		C ₃ Ir 1-Iridacyclobuta-1,3-diene 2, 555–621	
C ₃ B 2,3-Dihydro-boretane 2, 555–621		C ₃ Mo 1-Molybdacyclobuta-1,3-diene 2, 555–621	
		C ₃ N Azete 2, 704–705; 2, 94, 96; 5, 224; 6, 173f	































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 Telluretane 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	

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

























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		[1,2,3,4]Tetraphospholane 2, 967	
CN ₃ O 1,2,3,4-Oxatriazole 6, 425–439; 6, 478		CS ₄ [1,2,3,4]Tetrathiolane 1, 668–669	
1,2,3,5-Oxatriazole 6, 425–439			

C ₂ (E ₂)(M) 1,3-dihetero-2-metalla-lane 6, 691–737		C ₂ BS ₂ 1,3,2-Dithiaborole 6, 615–654	
	M = Al, In, Ga, Ge, Sn, Pb E = N, P, O, S, Se, Te	C ₂ GeSi ₂ 1H-[1,2,3]Disilagermole 6, 664, 669	
C ₂ AsN ₂ 1H-[1,2,4]Diazarsole 6, 604f; 6, 605t; 6, 607f		C ₂ NOP 1,3,2-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, 605r; 6, 607f; 6, 608; 6, 608–609		1,4,2-Oxazaphosphole 6, 583–601	
1,4,2-Diazarsole 6, 604f; 6, 605t; 6, 606–607		C ₂ NOS 3H-1,2,4-Oxathiazole 6, 61–104	
C ₂ AsP ₂ 1H-1,2,4-Diphospharsole 6, 604f; 6, 609f		5H-[1,2,4]Oxathiazole 6, 61–104	
1H-[1,2,4]Diphospharsole 6, 604f; 6, 609f		[1,2,4]Oxathiazolidine 6, 61–104	
C ₂ BNO [1,3,2]Oxazaborolidine 6, 615–654		[1,3,4]Oxathiazole 6, 105–144	
C ₂ BN ₂ [1,3,2]Diazaborolidine 6, 615–654		[1,3,4]Oxathiazolidine 6, 105–144	
2,3-Dihydro-1H-[1,3,2]diazaborole 6, 615–654		1,4,2-Oxathiazole 6, 105–144	
C ₂ BO ₂ 1,3,2-Dioxaborole 6, 615–654		[1,4,2]Oxathiazole 6, 105–144	
[1,3,2]Dioxaborolane 1, 354f; 6, 615–654		C ₂ NOSe 1,2,5-Oxaselenazole 6, 517–581	

C₂NO₂3H-[1,2,4]Dioxazole
6, 61–1041H-1,2,4-Azadiphosphole
6, 583–601[1,2,4]Dioxazolidine
6, 61–1042H-[1,3,4]Azadiphosphole
1, 700[1,3,2]Dioxazolidine
6, 37–59C₂NSSe
3H-1,2,4-Thiaselenazole
6, 517–581[1,3,2]Dioxazole
6, 37–591,2,3-Thiaselenazole
6, 517–581[1,4,2]Dioxazolidine
6, 105–1441,2,5-Thiaselenazole
6, 517–581[1,4,2]Dioxazole
6, 105–144C₂NSSi
[1,3,2]Thiazasilolidine
6, 665–666C₂NPS2,5-Dihydro-[1,4,2]thiazaphosphole
6, 583–601C₂NSe₂
1,2,3-Diselenazole
6, 517–5811,2,4-Thiazaphosphole
6, 583–6011,3,2-Thiazaphosphole
6, 583–601C₂NS₂
3H-[1,2,3]Dithiazole
6, 1–361,3,5-Thiazaphosphole
6, 583–6013H-1,2,4-Dithiazole
6, 461f; 6, 463f; 6, 466fC₂NPSe2,5-Dihydro-[1,4,2]selenazaphosphole
6, 583–6015H-[1,2,3]Dithiazole
6, 1–361,3,5-Selenazaphosphole
6, 583–6015H-[1,2,4]Oxathiazole
6, 61–104[1,2,3]Dithiazolidine
6, 1–36C₂NPdSe1,2,3-Selenapalladazole
6, 517–581[1,3,2]Dithiazole
6, 37–59[1,3,2]Dithiazolidine
6, 37–59C₂NP₂1H-1,2,3-Azadiphosphole
6, 583–601[1,4,2]Dithiazolidine
6, 105–144

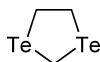
[1,4,2]Dithiazole 6, 105–144		2H-[1,2,3]Diazaphosphole 6, 583–601	
[1,2,4]Oxathiazolidine 6, 61–104		1H-1,2,4-Diazaphosphole 6, 583–601	
1λ ⁴ -[1,2,3]Dithiazole 5, 554; 8, 426; 6, 1–36		1H-1,3,2-Diazaphosphole 6, 583–601	
		2H-1,4,2-Diazaphosphole 6, 583–601	
C ₂ N ₂ (M) 1,3,2-Diazametallalidine 6, 691–737	 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	
2,3-Dihydro-[1,3,4]oxadiazole 5, 397–466		2,3-Dihydro-[1,2,4]thiadiazole 5, 467–486	
2,5-Dihydro-[1,3,4]oxadiazole 5, 417		1,2,3-Thiadiazole 5, 467–486; 4, 1030f, 1030f; 5, 132; 6, 442; 6, 478f; 6, 479f; 6, 487	
Furazan (1,2,5-oxadiazole) 5, 280; 5, 315–395; 5, 507; 5, 131f		1,2,4-Thiadiazole 1, 545; 1, 633; 5, 487–513; 6, 441–484	
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	
C ₂ N ₂ P 1H-1,2,3-Diazaphosphole 6, 583–601		1,2,5-Thiadiazole 5, 515–565; 6, 495f	
		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-Diphosphametallalidine 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]Thiasole
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



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































































2,3-Dihydro-isoxazole
4, 365–485






























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	

C ₃ P ₂ 1,3-Diphosphole 4, 1155–1167		1,3-Dithiole 4, 955–1090	
1H-1,2-Diphosphole 4, 1155–1167		3H-1,2-Dithiole 2, 843	
2,3-Dihydro-1H-[1,3]diphosphole 4, 1155–1167		1λ ⁴ -[1,3]Dithiole 4, 955–1090	
C ₃ SSe 1,3-Thiaselenolane 4, 1119–1153		C ₃ Te ₂ 1,3-Ditellurolane 4, 1119–1153	
1,3-Thiaselenole 4, 1119–1153		1,3-Ditellurole 4, 1119–1153	
C ₃ SSi [1,3]Thiasilolane 4, 1280		3H-1,2-Ditellurole 4, 1091–1117	
C ₃ SeTe 1,3-Selenatellurolane 4, 1119–1153		C ₄ Si 1H-Silole 3, 1207	
1,3-Selenatellurole 4, 1119–1153		C ₄ Ge 1H-Germole 3, 1207	
3H-1,2-Selenatellurole 4, 1091–1117		C ₄ Sn 1H-Stannole 3, 1207	
C ₃ Se ₂ 1,3-Diselenolane 4, 1119–1153		C ₄ Pb 1H-Plumbole 3, 1207	
1,3-Diselenole 4, 1119–1153; 6, 547f		1H-metallole 3, 1243–1304	
3H-1,2-Diselenole 4, 1091–1117		C ₄ Al Alumolane 3, 1261	
C ₃ S ₂ [1,2]Dithiolane 2, 419–420		C ₄ As 1H-Arsole 3, 1149–1179	
[1,3]Dithiolane 4, 955–1090			

M = Mg, Al, Ti, Zr, Gf, Fe, Ru,
Os, Co, Rh, Ir, Ni, Pd, Pt

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, 28f



2,5-Dihydro-1H-pyrrole

3, 321, 322, 334



Pyrrolidine

1, 34f



1H-Pyrrole

3, 1–43; 3, 269–351; 3, 353–388,
3, 45–268; 6, 173t;
6, 442; 6, 475f; 6, 487; 6, 747fC₄O

2,3-Dihydro-furan

3, 389–406; 3, 462;
3, 497–569

2,5-Dihydro-furan

1, 77f; 3, 418, 420, 462; 3, 497–569;
3, 571–623

Furan

3, 389–406; 3, 407–496; 3, 497–569;
3, 571–623; 6, 160f; 6, 168f; 6, 155t;
6, 161t; 6, 173t; 6, 458f; 6, 530; 6, 577f

Furane

1, 180, 181; 3, 389–406; 3, 468;
3, 497–569; 3, 571–623C₄P

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, 421t; 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, 215t; 6, 161t; 6, 442;
6, 443t; 6, 487; 6, 487t; 6, 546; 6, 562fC₄Sb

1H-Stibole

3, 1149–1179

C₄Se

2,3-Dihydro-selenophene

3, 994



Selenophene
 3, 975–1006; 6, 540f; 6, 542;
 6, 540f; 6, 543f



1*H*-Silole
 3, 1207



Tetrahydro-selenophene
 3, 994, 994



C₄Sn
 1*H*-Stannole
 3, 1181–1223, 1191, 1193



C₄Si
 2,3-Dihydro-1*H*-silole
 3, 1181–1223



C₄Sn
 1*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



























































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 1*H*-Pentazole
 6, 739–757































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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	

C ₃ AsN ₂ [1,3,2]Diazarsinane 9, 880, 891		1,2,6-Oxathiazine 9, 523–567	
C ₃ AsO ₂ [1,3,2]Dioxarsinane 9, 885		1,4,2-Oxathiazine 9, 523–567	
C ₃ AsP ₂ [1,3,2]Diphospharsinane 9, 893		1,4,3-Oxathiazine 9, 523–567	
C ₃ As ₃ [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	
C ₃ BN ₂ 1,3,2-Diazaborine 9, 961–1008		4H-1,3,5-Oxathiazine 9, 523–567	
C ₃ BO ₂ 4H-1,3,2-Dioxaborin 9, 961–1008		6H-[1,3,5]Oxathiazine 5, 507; 6, 90	
C ₃ B ₃ [1,3,5]Triborinane 9, 975		C ₃ NOSe 6H-[1,3,5]Oxaselenazine 9, 827	
C ₃ NOP [1,3,2]Oxazaphosphinane 9, 858		C ₃ NO ₂ 1,4,2-Dioxazine 9, 523–567	
C ₃ NOS [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		C ₃ NP ₂ [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		1λ 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		1λ ⁴ -[1,3,5]Thiadiazine 9, 472	
C ₃ N ₂ S 2,3-Dihydro-1λ 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



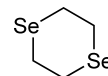
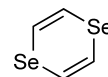
6H-[1,2]Thiazine
8, 513–566


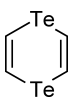
























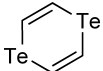



C₄N₂
Pyrazine
5, 590; 6, 566f; 8, 273–331



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		C ₄ OP [1,2]Oxaphosphinane 9, 853	
1,4-Dihydro-pyridazine 5, 435–436		C ₄ OS [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, 155t; 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	



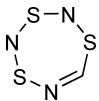
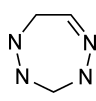

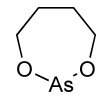
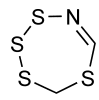
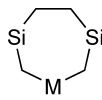
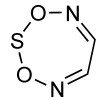
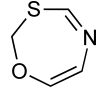
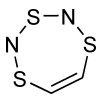


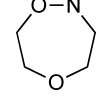
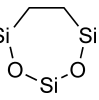
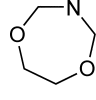
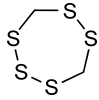
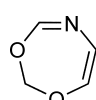
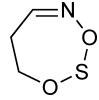
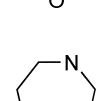


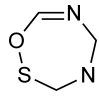
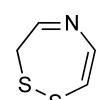


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9, 804[1,4]Diphosphinane
9, 846C₄O₂[1,2]Dioxane
8, 677-738[1,3]Diphosphinine
9, 837[1,3]Dioxane
8, 739-856C₄SSe
2,3-Dihydro-[1,4]thiaselenine
9, 815[1,4]Dioxane
8, 871[1,2]Thiaselenine
9, 8062,3-Dihydro-[1,4]dioxine
8, 871, 872C₄SSi
[1,3]Thiasilinane
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, 155r1,4-Diselenin
2, 868; 9, 795[1,2]Dioxine
8, 677-738[1,2]Diselenine
9, 806C₄PS[1,2]Thiaphosphinane
9, 857C₄Si₂
1,2-Dihydro-[1,2]disilene
9, 913-960C₄P₂[1,2]Diphosphinane
9, 8451,4-Dihydro-[1,4]disilene
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, 173f; 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		C ₄ Te ₂ 1,4-Ditellurine 9, 739	
C ₄ Te ₂ 1,4-Ditellurine 9, 739		1,2,3,4-Tetrahydro-pyridine 1, 29f, 30; 7, 179, 199	

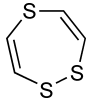
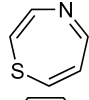


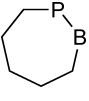
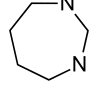
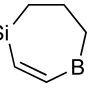

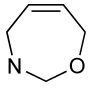
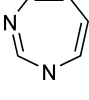

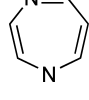
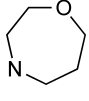
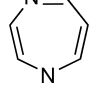
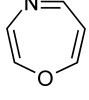
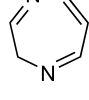
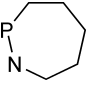

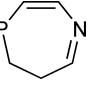
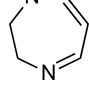
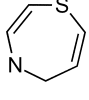

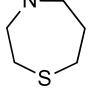
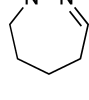




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















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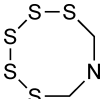
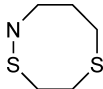
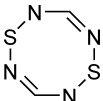
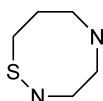
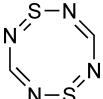
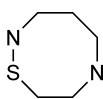
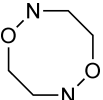
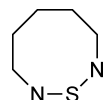
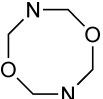
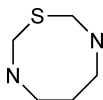
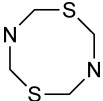
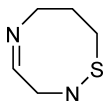
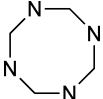
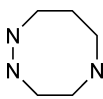
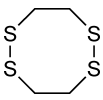
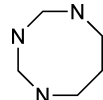
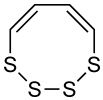
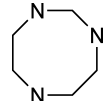
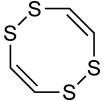
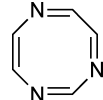
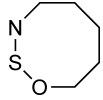
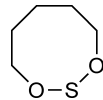
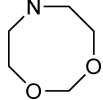
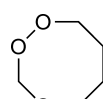
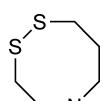
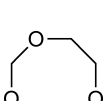
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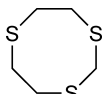
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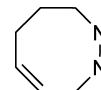
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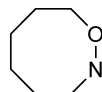
[1,3,6]Trithiocane
14, 500



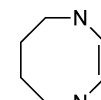
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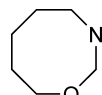
[1,2]Oxazocane
14, 121



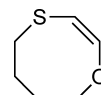
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14, 270f



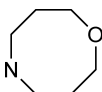
[1,3]Oxazocane
14, 191



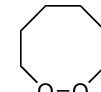
C₆OS
5,6,7,8-Tetrahydro-[1,4]oxathiocine
14, 295



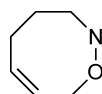
[1,5]Oxazocane
14, 386, 398



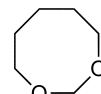
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[1,2]Dioxocane
14, 139



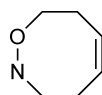
3,4,5,8-Tetrahydro-2H-[1,2]oxazocine
14, 121



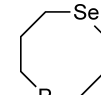
[1,3]Dioxocane
14, 234



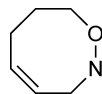
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14, 121



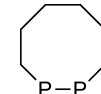
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[1,5]Selenaphosphocane
14, 932



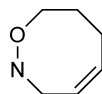
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14, 121



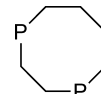
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[1,2]Diphosphocane
14, 925–926



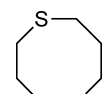
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14, 121



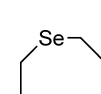
[1,4]Diphosphocane
14, 924–925



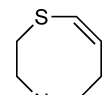
[1,5]Thiazocane
14, 409



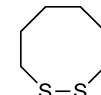
C₆Se₂
[1,5]Diselenocane
2, 470



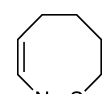
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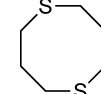
C₆S₂
[1,2]Dithiocane
14, 160



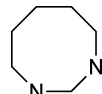
5,6,7,8-Tetrahydro-2H-[1,2]thiazocine
14, 135



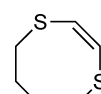
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14, 451



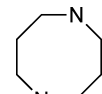
[1,3]Diazocane
14, 188



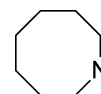
5,6,7,8-Tetrahydro-[1,4]dithiocine
14, 296



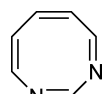
[1,5]Diazocane
14, 306



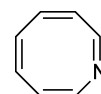
C₇N
Azocane
14, 7
















1,3-Diazocine
14, 118

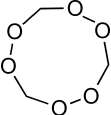
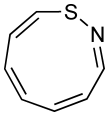
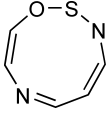
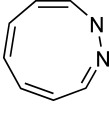
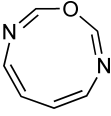
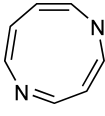
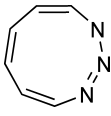
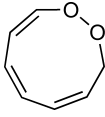
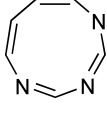
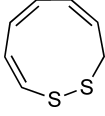
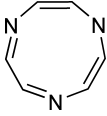
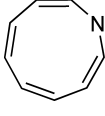
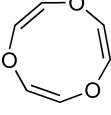
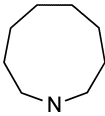
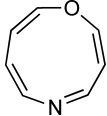
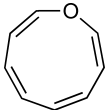


Azocine
14, 1–47



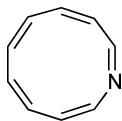
3,4-Dihydro-azocine 14, 7		3,4,7,8-Tetrahydro-2H-oxocine 14, 65 <i>f</i>	
1,2,3,4,5,6-Hexahydro-azocine 14, 7		C ₇ P Phosphocane 14, 920	
1,2,3,4,5,8-Hexahydro-azocine 14, 7		C ₇ S 3,4,5,6-Tetrahydro-2H-thiocine 14, 93	
1,2,3,4,7,8-Hexahydro-azocine 14, 7		Thiocane 14, 95, 96	
1,2,3,8-Tetrahydro-azocine 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>			

9

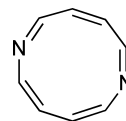
C_3O_6 1,2,4,5,7,8-Hexoxonane 14, 547-611		C_7NS 1,2-Thiazonine 14, 547-611	
C_5N_2OS 3H-1,2,3,7-Oxathiadiazonine 14, 547-611		C_7N_2 1H-1,2-Diazonine 14, 547-611	
C_6N_2O 1,3,8-Oxadiazonine 14, 547-611		1H-1,5-Diazonine 14, 547-611	
C_6N_3 1H-1,2,3-Triazonine 14, 547-611		C_7O_2 3H-1,2-Dioxonine 14, 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

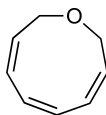
C₉N
Azecine
14, 613–666



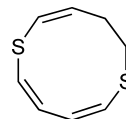
C₈N₂
1,6-Diazecine
14, 613–666



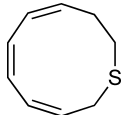
C₉O
2H-Oxonine
14, 547–611



C₈S₂
1,6-Dithiecin
14, 751–801



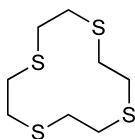
C₉S
2H-Thiecin
14, 751–801



12

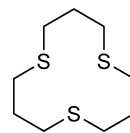
C_8S_4

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

CTe_2-CTe_2

$1\lambda^4,3\lambda^4$ -Ditellura-bicyclo[1.1.0]butane
2, 864



C_2P-C_3

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



C_2N-C_2N

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

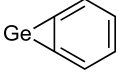
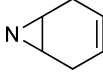
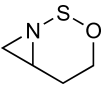
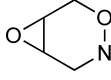
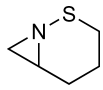
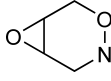
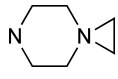
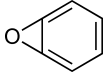
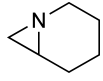

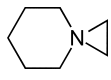
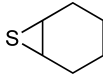
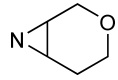
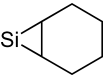
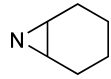



3,5

CNO-C ₄ N 6-Oxa-1-azabicyclo[3.1.0]hexane 1, 565–566, 604–605		C ₂ NC ₃ NS 2-Thia-1-aza-bicyclo[3.1.0]hex-3-ene 1, 128 <i>t</i> , 143 <i>f</i> , 143 <i>f</i> ; 8, 555–556	
CN ₂ -C ₂ N ₃ 1,3,5-Triazabicyclo[3.1.0]hexane 1, 548, 549		C ₂ O-C ₄ O 3,6-Dioxabicyclo[3.1.0]hexane 1, 275	
CN ₂ -C ₃ N ₂ 1,5-Diazabicyclo[3.1.0]hexane 9, 661		C ₂ O-C ₅ 6-Oxabicyclo[3.1.0]hexane 1, 235–298	
CP ₂ -C ₂ P ₂ Si 1,5-Diphospha-2-sila-bicyclo[3.1.0]- hex-3-ene 1, 701 <i>f</i>		C ₂ OC ₄ N 6-Oxa-3-aza-bicyclo[3.1.0]hexane 1, 276	
C ₂ N-C ₃ NO 4-Oxa-1-aza-bicyclo[3.1.0]hexane 1, 126–127, 127		C ₂ S-C ₄ O 3-Oxa-6-thia-bicyclo[3.1.0]hexane 1, 392	
C ₂ N-C ₃ N ₂ 1,3-Diaza-bicyclo[3.1.0]hex-3-ene 1, 107		C ₂ S-C ₄ S 3,6-Dithia-bicyclo[3.1.0]hexane 1, 422	
C ₂ N-C ₄ N 1-Azabicyclo[3.1.0]hexane 1, 25; 1, 105–172		1λ ⁴ -Thia-bicyclo[3.1.0]hexane 12, 482	
1-Aza-bicyclo[3.1.0]hexane 1, 105–172		C ₂ S-C ₅ 1-Thia-spiro[2.4]heptane 1, 394	
3-Aza-spiro[2.4]heptane 12, 1049 <i>f</i>		6-Thiabicyclo[3.1.0]hexane 1, 391–431	
C ₂ N-C ₄ O 3-Oxa-6-azabicyclo[3.1.0]hexane 1, 110		C ₃ -C ₃ NO 4-Oxa-5-aza-spiro[2.4]heptane 4, 399, 400, 401, 402	
C ₂ N-C ₅ 6-Azabicyclo[3.1.0]hexane 1, 105–172		C ₃ -C ₃ NS 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		C ₃ -C ₄ N 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

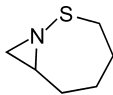
3,6

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

3,7

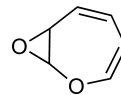
C₂N-C₅NS

2-Thia-1-aza-bicyclo[5.1.0]octane
1, 128*t*, 129*t*



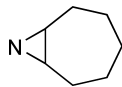
C₂O-C₆O

2,8-Dioxa-bicyclo[5.1.0]octa-3,5-diene
1, 659



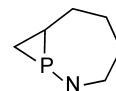
C₂N-C₇

8-Azabicyclo[5.1.0]octane
1, 113



C₂P-C₅NP

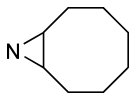
2-Aza-1-phospha-bicyclo[5.1.0]octane
12, 545*f*



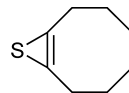
3,8

C₂N-C₈

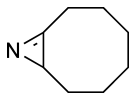
9-Azabicyclo[6.1.0]nonane
1; **5**, 58*f*, 61*f*; **1**, 111, 113, 113, 140



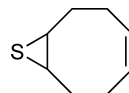
9-Thia-bicyclo[6.1.0]non-1(8)-ene
1, 392



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

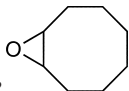


9-Thia-bicyclo[6.1.0]non-4-ene
1, 392



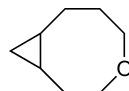
C₂O-C₈

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



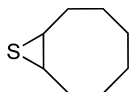
C₃-C₇O

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



C₂S-C₈

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

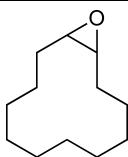


3,12

C₂O-C₁₂

13-Oxa-bicyclo[10.1.0]tridecane

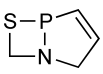
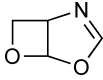
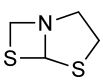
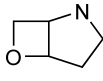
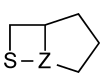
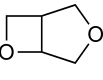
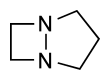
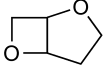
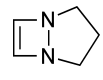
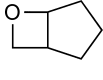
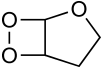
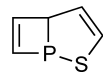
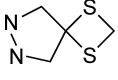
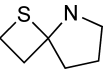
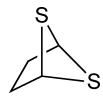
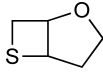
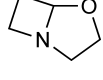
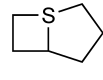
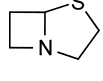
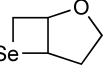
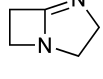
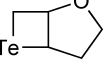
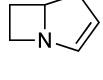
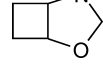

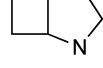
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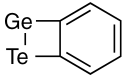
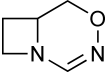
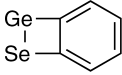
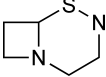
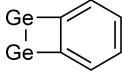
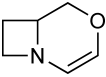
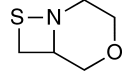
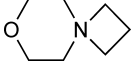
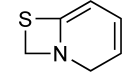
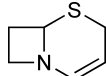
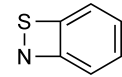
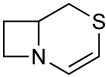
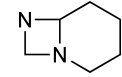
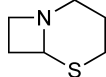
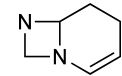
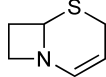

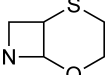
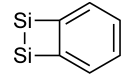
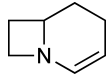
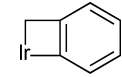
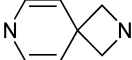
4,4

<p>C₂GeP-C₂GeP 2,5-Diphospha-3,6-digerma-bicyclo [2.2.0]hex-1(4)-ene 2, 911</p>		<p>C₃N-C₃S 2-Thia-6-aza-bicyclo[2.2.0]hexane 2, 430, 444</p>	
<p>C₂NO-C₃N 3-Oxa-1-aza-bicyclo[2.2.0]hex-5-ene 2, 695–696</p>		<p>C₃N-C₄ 2-Azabicyclo[2.2.0]hexane 2, 91</p>	
<p>C₂N₂-C₃N 1,2-Diaza-bicyclo[2.2.0]hexa-2,5-diene 2, 99</p>		<p>2-Aza-bicyclo[2.2.0]hex-5-ene 2, 239–319</p>	
<p>C₂P₂-C₃P 1,3-Diphospha-bicyclo[2.2.0]hexa-2,5-diene 2, 493</p>		<p>C₃P-C₃P 1-Phospha-bicyclo[2.2.0]hexa-2,5-diene 7, 1009</p>	
<p>C₂S₂-C₂S₂ 1λ⁴,4λ⁴-Dithia-bicyclo[2.2.0]hexane 12, 504</p>		<p>C₃Se-C₃Se 2,6-Disclena-spiro[3.3]heptane 2, 463–477</p>	
<p>C₂S₂-C₃S 2,4-Dithia-bicyclo[1.1.1]pentane 2, 836</p>		<p>C₃Si-C₃Ti 5-Sila-2-titanabicyclo [2.2.0]hexa-1(6),3-diene 2, 575</p>	
<p>C₃N-C₃N 1-Azabicyclo[2.2.0]hexane 2, 239–319</p>		<p>C₃Ti-C₃Ti 2,5-Dititanabicyclo[2.2.0]hexa-1(6),3-diene 2, 575</p>	

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, 670f		C ₃ Se-C ₄ O 2-Oxa-6-selena-bicyclo[3.2.0]heptane 2, 465f, 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

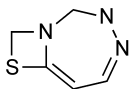
<p>$C_2GeTe-C_6$ 7-Tellura-8-germa-bicyclo [4.2.0]octa-1,3,5-triene 2, 868</p>		<p>$C_3N-C_2N_2O$ 4-Oxa-1,3-diaza-bicyclo[4.2.0]oct-2-ene 2, 156–157; 9, 323</p>	
<p>$C_2Ge_2-C_6$ 7-Selena-8-germa-bicyclo [4.2.0]octa-1,3,5-triene 2, 868</p>		<p>$C_3N-C_3N_2S$ 5-Thia-1,4-diaza-bicyclo[4.2.0]octane 9, 349</p>	
<p>7,8-Digerma-bicyclo [4.2.0]octa-1,3,5-triene 2, 914, 921</p>		<p>C_3N-C_4NO 4-Oxa-1-aza-bicyclo[4.2.0]oct-2-ene 2, 144</p>	
<p>C_2NS-C_4NO 4-Oxa-8-thia-1-aza-bicyclo[4.2.0]octane 2, 754<i>f</i></p>		<p>7-Oxa-4-aza-spiro[3.5]nonane 12, 1050</p>	
<p>C_2NS-C_5N 7-Thia-1-aza-bicyclo[4.2.0]octa-3,5-diene 2, 740, 741</p>		<p>C_3N-C_4NS 2,3-Dihydro-imidazo[1,2-d][1,2,4]- thiadiazole 5, 483</p>	
<p>C_2NS-C_6 7-Thia-8-aza-bicyclo [4.2.0]octa-1,3,5-triene 2, 733–734, 755</p>		<p>4-Thia-1-aza-bicyclo[4.2.0]oct-2-ene 2, 144</p>	
<p>$C_2N_2-C_5N$ 1,7-Diaza-bicyclo[4.2.0]octane 2, 665</p>		<p>5-Thia-1-azabicyclo[4.2.0]octane 5, 235; 8, 580, 582–583; 8, 642</p>	
<p>1,7-Diaza-bicyclo[4.2.0]oct-2-ene 2, 664<i>f</i></p>		<p>5-Thia-1-aza-bicyclo [4.2.0]oct-2-ene(cephalosporin) 2, 111–171; 5, 498; 8, 642</p>	
<p>$C_2S_2-C_5S$ 6,7-Dithiabicyclo[3.1.1]heptane 2, 822, 824, 824, 836, 843</p>		<p>C_3N-C_4OS 5-Oxa-2-thia-7-aza-bicyclo[4.2.0]octane 8, 875</p>	
<p>$C_2Si_2-C_6$ 7,8-Disila-bicyclo[4.2.0]octa-1,3,5-triene 2, 914, 914</p>		<p>C_3N-C_5N 1-Aza-bicyclo[4.2.0]oct-2-ene 2, 145; 2, 664<i>f</i></p>	
<p>C_3Ir-C_6 1,2-Dihydrobenzo[b]iridabete 2, 555–621</p>		<p>2,7-Diaza-spiro[3.5]nona-5,8-diene 7, 131<i>f</i></p>	

C ₃ N-C ₆ 7-Azabicyclo[4.2.0]octane 2, 258		C ₃ S-C ₅ N 8-Thia-2-aza-bicyclo [4.2.0]octa-1(6),2,4-triene 2, 447	
7-Aza-bicyclo[4.2.0]oct-3-ene 2, 281		C ₃ S-C ₅ O 2-Oxa-7-thia-bicyclo[4.2.0]octane 2, 431, 445-446	
C ₃ O-C ₄ N ₂ 8-Oxa-2,4-diaza-bicyclo[4.2.0]octane 8, 178		C ₃ S-C ₆ 7-Thia-bicyclo[4.2.0]octane 2, 433	
C ₃ O-C ₅ O 2,7-Dioxa-bicyclo[4.2.0]octane 2, 378		7-Thia-bicyclo[4.2.0]octa-1(6),2,4-triene 2, 437-438, 438-439, 455	
C ₃ O-C ₆ 7-Oxabicyclo[4.2.0]octane 2, 365-387		C ₃ Se-C ₆ 7-Selena-bicyclo[4.2.0]octa-1,3,5-triene 2, 464f, 473-474	
1-Oxaspiro[3.5]nonane 2, 369, 370, 377-378		C ₃ Si-C ₆ 7-Sila-bicyclo[4.2.0]octa-1(6),2,4-triene 2, 515, 540-541	
C ₃ P-C ₆ 7-Phospha-bicyclo[4.2.0]octa-1(6), 2,4,7-tetraene 2, 486-487		C ₄ -C ₄ N ₂ 2,4-Diaza-bicyclo[4.2.0]octa-1(6), 2,4-triene 8, 221, 221	
C ₃ Ru-C ₆ 1,2-Dihydrobenzo[b]rutenabete 2, 555-621		C ₄ -C ₅ P 3-Phospha-bicyclo[4.2.0]octa-1,3,5-triene 7, 1006	
C ₃ S-C ₄ N ₂ 1-Thia-5,9-diaza-spiro[3.5]nonane 2, 451		C ₄ -C ₅ S 2-Thia-bicyclo[4.2.0]octane 7, 735	
7-Thia-2,4-diaza-bicyclo[4.2.0]octa-1(6), 2,4-triene 2, 449, 449-450, 450-451, 457		Si ₄ -C ₂ S ₂ Si ₂ 2,5-Dithia-1,6,7,8-tetrasilabicyclo [4.2.0]octane 6, 667	

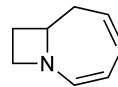
4,7

C₂NS-C₄N₃

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

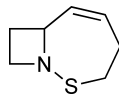


1-Aza-bicyclo[5.2.0]nona-2,4-diene
2, 305



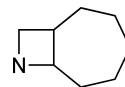
C₃N-C₅NS

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



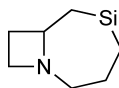
C₃N-C₇

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



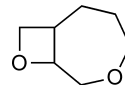
C₃N-C₅NSi

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



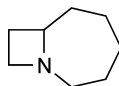
C₃O-C₆O

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



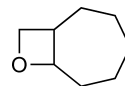
C₃N-C₆N

1-Azabicyclo[5.2.0]nonane
1, 562



C₃O-C₇

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

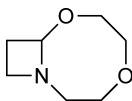


4,8

C₃N-C₅NO₂

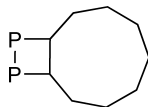
4,7-Dioxa-1-aza-bicyclo[6.2.0]decane

2, 243



4,9

$C_2P_2-C_9$
10,11-Diphospha-bicyclo
[7.2.0]undecane
2, 879

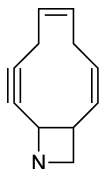


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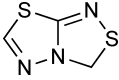
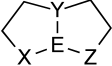
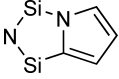
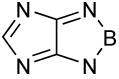
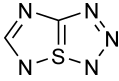
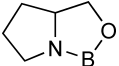
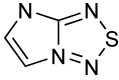
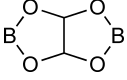
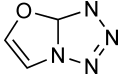
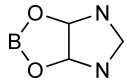
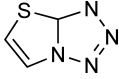
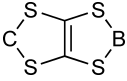
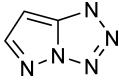
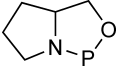
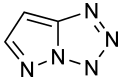
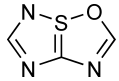
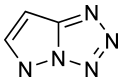
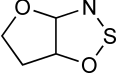
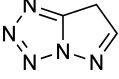
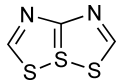
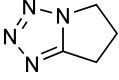
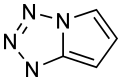
C₃N-C₁₀

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

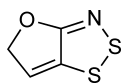
2, 253, 268, 269, 270, 275



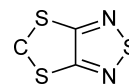
5,5

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	
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, 479f		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, 492f		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-b] [1,2,4]oxathiazole 6, 466f	
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-b] [1,2,4]dithiazole 6, 73–74, 74; 6, 465f; 6, 466f; 6, 467f	
CN ₄ -C ₄ N 6,7-Dihydro-5H-pyrrolotetrazole 11, 307–323			
1H-Pyrrolotetrazole 11, 307–323; 6, 274			

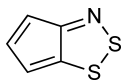
C₂NS₂-C₄O
5H-4-Oxa-1,2-dithia-3-aza-pentalene
10, 140



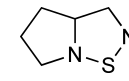
C₂N₂S-C₃S₂
2,4,6-Trithia-1,3-diaza-pentalene
10, 239



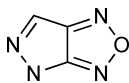
C₂NS₂-C₅
Cyclopenta[1,2,3]dithiazole
6, 29



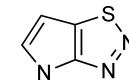
C₂N₂S-C₄N
Hexahydro-1-thia-2,6a-diaza-pentalene
11, 118f



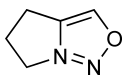
C₂N₂O-C₃N₂
4H-Pyrazolo[3,4-c][1,2,5]oxadiazole
10, 189–261



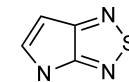
4H-1-Thia-2,3,4-triaza-pentalene
10, 144, 144



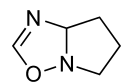
C₂N₂O-C₄N
5,6-Dihydro-4H-pyrrolo[1,2-c]
[1,2,3]oxadiazole
11, 119



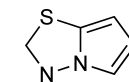
4H-2-Thia-1,3,4-triaza-pentalene
10, 151–152



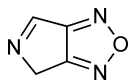
5,6,7,7a-Tetrahydro-pyrrolo[1,2-b]
[1,2,4]oxadiazole
11, 121



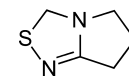
2,3-Dihydro-pyrrolo[2,1-b]
[1,3,4]thiadiazole
11, 123–124



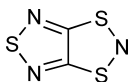
4H-Pyrrolo[3,4-c][1,2,5]oxadiazole
10, 141



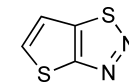
6,7-Dihydro-5H-pyrrolo[2,1-c]
[1,2,4]thiadiazole
11, 125



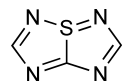
C₂N₂S-CNS₂
[1,2,5]Thiadiazolo[3,4-d]
[1,3,2]dithiazole
6, 37–59



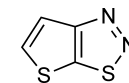
C₂N₂S-C₄S
1,4-Dithia-2,3-diaza-pentalene
10, 146f, 147, 155



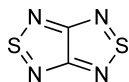
C₂N₂S-C₂N₂S
4λ⁴-[1,2,4->Thiadiazolo[5,1-ℓ]
[1,2,4]thiadiazole
6, 466f



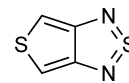
Thieno[3,2-d][1,2,3]thiadiazole
10, 147, 147–148



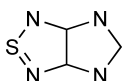
5λ⁴,2λ⁴-[1,2,5]Thiadiazolo[3,4-c]
[1,2,5]thiadiazole
10, 242



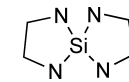
Tetrahydro-1,3-dioxa-2-thia-
5-aza-pentalene
10, 148, 148



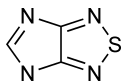
C₂N₂S-C₃N₂
1,3a,4,5,6,6a-Hexahydro-2λ⁴-thia-
1,3,4,6-tetraaza-pentalene
10, 243



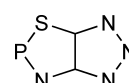
C₂N₂Si-C₂N₂Si
1,4,6,9-Tetraaza-5-sila-spiro[4.4]nonane
6, 666



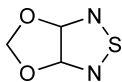
4H-2-Thia-1,3,4,6-tetraaza-pentalene
10, 239



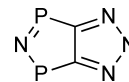
C₂N₃-C₂NPS
Hexahydro-1-thia-3,4,5,6-tetraaza-
2-phospha-pentalene
10, 246

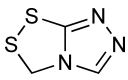
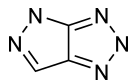
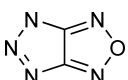
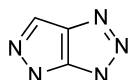
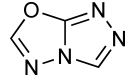
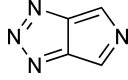
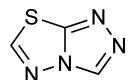
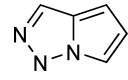
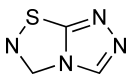
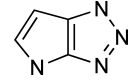
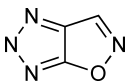
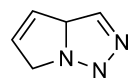
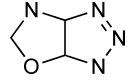
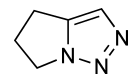
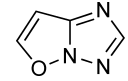
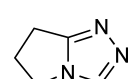
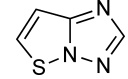
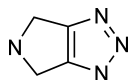
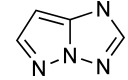
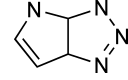
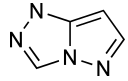
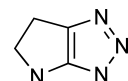
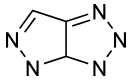
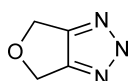


C₂N₂S-C₃O
Tetrahydro-4,6-dioxa-2-thia-
1,3-diaza-pentalene
10, 245



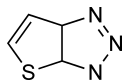
C₂N₃-C₂NP₂
2,4-Dihydro-1,2,3,5-tetraaza-4,
6-diphospha-pentalene
10, 238



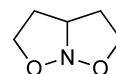
C ₂ N ₃ -C ₂ NS ₂ [1,2,4]Triazolo[3,4-c][1,2,4]dithiazole 11, 342		2,4-Dihydro-pyrazolo[3,4-d] [1,2,3]triazole 10, 189–261, 245	
C ₂ N ₃ -C ₂ N ₂ O 6H-[1,2,3]Triazolo[4,5-c] [1,2,5]oxadiazole 5, 346, 352		3,4-Dihydro-pyrazolo[3,4-d] [1,2,3]triazole 10, 240	
[1,2,4]Triazolo[3,4-b][1,3,4] 11, 351–366		C ₂ N ₃ -C ₄ N Pyrrolo[3,4-d]-1,2,3-triazole 10, 142f	
C ₂ N ₃ -C ₂ N ₂ S [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, 145f, 153	
C ₂ N ₃ -C ₃ NO 2H-Isloxazolo[4,5-d][1,2,3]triazole 10, 189–261		3a,6-Dihydro-1H-pyrrolo[1,2-c] [1,2,3]triazole 11, 121	
3a,5,6,6a-Tetrahydro-3H-oxazolo[4,5-d] [1,2,3]triazole 10, 247		5,6-Dihydro-4H-pyrrolo[1,2-c] [1,2,3]triazole 11, 118f	
4-Oxa-1,3,3a-triaza-pentalene 11, 351–366		6,7-Dihydro-5H-pyrrolo[2,1-c] [1,2,4]triazole	
C ₂ N ₃ -C ₃ NS 4-Thia-1,3,3a-triaza-pentalene 11, 351–366		1,4,5,6-Tetrahydro-pyrrolo[3,4-d] [1,2,3]triazole 10, 154	
C ₂ N ₃ -C ₃ N ₂ 1H-Pyrazolo[1,5-b][1,2,4]triazole 11, 247		3,3a,4,6a-Tetrahydro-pyrrolo[2,3-d] [1,2,3]triazole 4, 968–969	
1H-Pyrazolo[5,1-c][1,2,4]triazole 11, 248		3,4,5,6-Tetrahydro-pyrrolo[2,3-d] [1,2,3]triazole 10, 153, 153	
2,3,3a,4-Tetrahydro-pyrazolo[3,4-d] [1,2,3]triazole 10, 240		C ₂ N ₃ -C ₄ O 2,6-Dihydro-4H-furo[3,4-d] [1,2,3]triazole 10, 140–141, 150, 150–151	

C₂N₃-C₄S

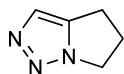
3a,6a-Dihydro-3H-thieno[2,3-d]
[1,2,3]triazole
10, 154–155



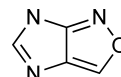
Tetrahydro-isoxazolo[2,3-b]isoxazole
11, 166

C₂N₃-C₅

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



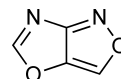
6H-Imidazo[4,5-c]isoxazole
10, 177, 178f

C₂O₂P-C₂O₂P

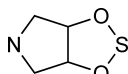
2,6,7-Trioxa-1-phospha-bicyclo
[2.2.1]heptane
12, 554



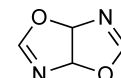
2,4-Dioxa-1,6-diaza-pentalene
10, 178f

C₂O₂S-C₄N

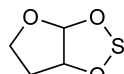
Tetrahydro-1,3-dioxa-2-thia-
5-aza-pentalene
10, 145



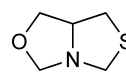
3a,6a-Dihydro-oxazolo[5,4-d]oxazole
10, 175

C₂O₂S-C₄O

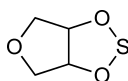
Tetrahydro-furo[2,3-d]
[1,3,2]dioxathiole
6, 170f; 6, 173f, 10, 142, 144

C₃NO-C₃NS

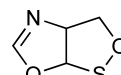
Dihydro-thiazolo[3,4-c]oxazole
11, 166



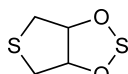
Tetrahydro-furo[3,4-d]
[1,3,2]dioxathiole
10, 150

C₃NO-C₃OS

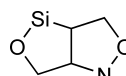
3a,6a-Dihydro-3H-2,6-dioxa-
1-thia-4-aza-pentalene
10, 178–179

C₂O₂S-C₄S

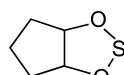
Tetrahydro-thieno[3,4-d]
[1,3,2]dioxathiole
6, 147, 10, 149f, 149

C₃NO-C₃OSi

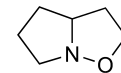
Tetrahydro-2,5-dioxa-1-aza-
4-sila-pentalene
10, 179

C₂O₂S-C₅

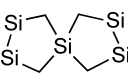
Tetrahydro-cyclopenta[1,3,2]dioxathiole
6, 161f; 6, 173f

C₃NO-C₄N

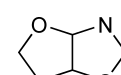
Hexahydro-pyrrolo[1,2-b]isoxazole
11, 67

C₂Si₃-C₂Si₃

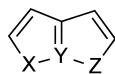
2,3,5,7,8-Pentasila-spiro[4.4]nonane
6, 662

C₃NO-C₄N

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

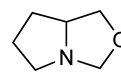
C₃(X)(Y)-C₃(Y)(Z)

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



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

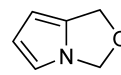
Tetrahydro-pyrrolo[1,2-c]oxazole
11, 88, 92

C₃BN-C₅

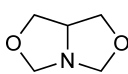
2-Aza-3-bora-bicyclo[2.2.1]hept-5-ene
4, 1192



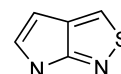
1H-Pyrrolo[1,2-c]oxazole
11, 86

C₃NO-C₃NO

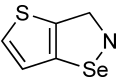
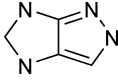
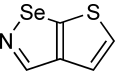
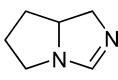
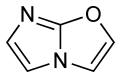
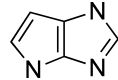
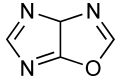
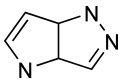
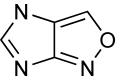
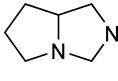
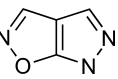
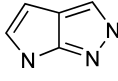
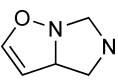
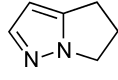
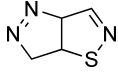
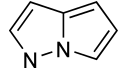
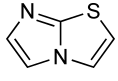
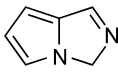
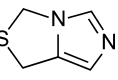
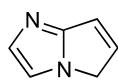
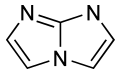
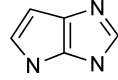
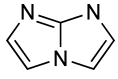
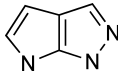
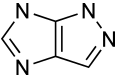
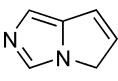
Dihydro-oxazolo[3,4-c]oxazole
11, 166

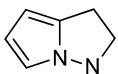
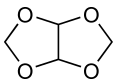
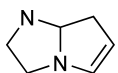
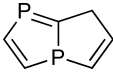
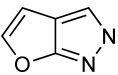
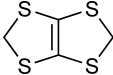
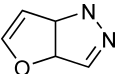
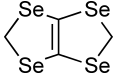
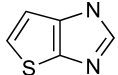
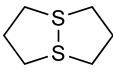
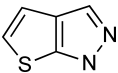
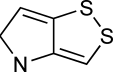
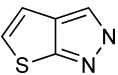
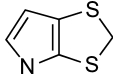
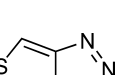
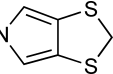
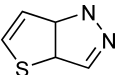
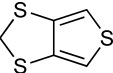
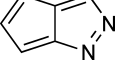
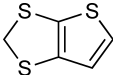
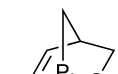
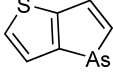
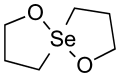
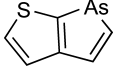
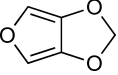
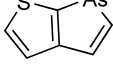


6H-2-Thia-1,6-diaza-pentalene
10, 81f



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		1H-3λ ⁴ -Thieno[3,2-d]thiazole 10, 74	
		4H-Pyrrolo[2,3-d]thiazole 10, 74	

C ₃ NSe-C ₄ S 2,3-Dihydro-thieno[2,3-d]iselenazole 4, 760 <i>t</i>		2,4,5,6-Tetrahydro-imidazo [4,5-c]pyrazole 10, 177	
Thieno[3,2-d]iselenazole 4, 780		5,6,7,7a-Tetrahydro-1H-pyrrolo [1,2-c]imidazole 11, 57	
C ₃ N ₂ -C ₃ NO Imidazo[2,1-b]oxazole 11, 151–152		1,4-Dihydro-pyrrolo[2,3-d]imidazole 10, 76 <i>t</i>	
3aH-Imidazo[4,5-d]oxazole 10, 175		1,3a,4,6a-Tetrahydro-pyrrolo [3,2-c]pyrazole 10, 83 <i>t</i>	
4H-Imidazo[4,5-c]isoxazole 4, 425 <i>f</i>		C ₃ N ₂ -C ₄ N Hexahydro-pyrrolo[1,2-c]imidazole 11, 59	
6H-Pyrazolo[4,3-d]isoxazole 4, 58		2,6-Dihydro-pyrrolo[2,3-c]pyrazole 10, 81 <i>t</i>	
3a,4,5,6-Tetrahydro-imidazo [1,5-b]isoxazole 4, 237		5,6-Dihydro-4H-pyrrolo[1,2-b]pyrazole 11, 48	
C ₃ N ₂ -C ₃ NS 6,6a-Dihydro-3aH-1-thia-2,4, 5-triaza-pentalene 4, 575–576, 576		1H-Pyrrolo[1,2-b]pyrazole 11, 47	
Imidazo[2,1-b]thiazole 11, 133–197		3H-Pyrrolo[1,2-c]imidazole 11, 56	
1H-Imidazo[1,5-c]thiazole 11, 133–197		5H-Pyrrolo[1,2-a]imidazole 11, 52	
C ₃ N ₂ -C ₃ N ₂ 1H-Imidazo[1,2-a]imidazole 11, 133–197		3,4-Dihydro-pyrrolo[2,3-d]imidazole 10, 78 <i>t</i>	
1H-Imidazo[1,2-a]imidazole 11, 133–197		1,6-Dihydro-pyrrolo[2,3-c]pyrazole 10, 79 <i>t</i>	
1,6-Dihydro-imidazo[4,5-c]pyrazole 10, 176–177		5H-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>t</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 -selena-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>		C ₄ Sb-C ₄ S 4H-Stibolo[3,2-b]thiophene 3, 1149–1179	

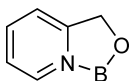
6H-1-Thia-6-arsa-pentalene 3, 1149–1179		C ₄ N-C ₄ O 6H-Furo[2,3- <i>b</i>]pyrrole 10, 20	
C ₄ Bi-C ₄ S 4H-Bismolo[3,2- <i>b</i>]thiophene 3, 1149–1179		C ₄ N-C ₄ S 4H-Thieno[3,2- <i>b</i>]pyrrole 10; 13; 13; 14, 14	
6H-Bismolo[2,3- <i>b</i>]thiophene 3, 1149–1179		3,5-Dihydro-1H-thieno[3,4- <i>c</i>]pyrrole 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 6H-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 4H-Furo[3,2- <i>b</i>]pyrrole 10; 13; 14; 14, 26–27, 37	
C ₄ N-C ₄ N Hexahydro-pyrrolizine 1, 604–605; 11, 15		C ₄ O-C ₄ O Furo[3,2- <i>b</i>]furan 6, 155 <i>f</i>	
1H-Pyrrolizine 11, 1–40		Tetrahydro-furo[3,4- <i>c</i>]furan 3, 542	
3H-Pyrrolizine 11, 1–40		2,3-Dihydro-furo[3,4- <i>b</i>]furan 3, 508	
1,4-Dihydro-pyrrolo[3,2- <i>b</i>]pyrrole 10; 11, 37		7-Oxa-bicyclo[2.2.1]hept-2-ene 3, 467, 468	
2,3-Dihydro-1H-pyrrolizine 11, 1–40		C ₄ O-C ₄ S Thieno[2,3- <i>b</i>]furan 10, 20	
2,3,7,7a-Tetrahydro-1H-pyrrolizine 11, 1–40		Thieno[3,4- <i>b</i>]furan 3, 850 <i>f</i>	
		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	

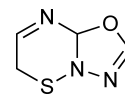
5,6

CNO ₂ Si-C ₄ NO 1,3,6-Trioxa-3a-aza-2-sila-indene 11, 819–846		Tetrazolo[1,5-c]pyrimidine 11, 819–846	
CN ₃ P-C ₄ N ₂ 1,2,3a,5-Tetraaza-3-phospha-indene 11, 819–846		CN ₄ -C ₅ N 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	
CN ₃ S-C ₅ N 2 <i>H</i> -[1,2,3,5]Thiatriazolo [5,4- <i>a</i>]pyridine 6, 493		C ₂ (E)(M ₂)-C ₆ 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
CN ₄ -C ₃ N ₃ Tetrazolo[1,5-b][1,2,4]triazine 11, 909–918		C ₂ (E ₂)(M)-C ₆ 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
Tetrazolo[5,1-f][1,3,5]triazine 11, 909–918			
CN ₄ -C ₄ NO 5 <i>H</i> -Tetrazolo[5,1-b][1,3]oxazine 11, 819–846			
8 <i>H</i> -Tetrazolo[5,1-c][1,4]oxazine 11, 819–846		C ₂ AsNP-C ₆ 1 <i>H</i> -1,3,2-Benzaazaphospharsole 6, 604f	
CN ₄ -C ₄ NS 7 <i>H</i> -Tetrazolo[5,1-b][1,3]thiazine 11, 819–846		C ₂ AsNS-C ₆ 1,3,2-Benzazathiarsole 6, 604f	
CN ₄ -C ₄ N ₂ Tetrazolo[1,5-a]pyrazine 11, 819–846		1,3,2-Benzodithiarsole 6, 604f	
Tetrazolo[1,5-b]pyridazine 11, 819–846		C ₂ AsN ₂ -C ₅ N 1 <i>H</i> -1,2,4-Diazaarsolo[1,5- <i>a</i>]pyridines 6, 604f	
Tetrazolo[1,5-a]pyrimidine 11, 819–846		C ₂ AsN ₂ -C ₆ 1,3,2-Benzodiazaarsolide 6, 604f	

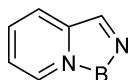
C₂BNO-C₅N
1,3-Dihydro-[1,3,2]oxazaborolo
[3,4-a]pyridine
11, 605



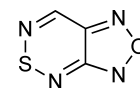
C₂N₂O-C₃N₂S
5,7a-Dihydro-1-oxa-4-thia-3,
3a,7-Triaza-indene
11, 847-893



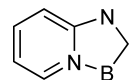
C₂BN₂-C₅N
1H-2,7a-Diaza-1-bora-indene
11, 589-627, 604



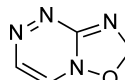
3H-[1,2,5]Oxadiazolo[3,4-c]
[1,2,6]thiadiazine
10, 703-712



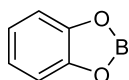
1,3a-Diaza-3-bora-indan
11, 605



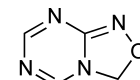
C₂N₂O-C₃N₃
2H-3-Oxa-1,3a,6,7-tetraaza-indene
11, 847-893



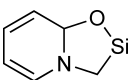
C₂BO₂-C₆
1,3,2-Benzodioxaborole
6, 620, 621



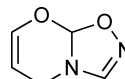
3H-[1,2,4]Oxadiazolo[4,3-a]
[1,3,5]triazine
11, 847-893



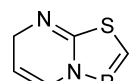
C₂NOSi-C₅N
2,3-Dihydro-7aH-1-oxa-
3a-aza-2-sila-indene
11, 606



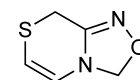
C₂N₂O-C₄NO
5H-[1,2,4]Oxadiazolo[5,4-b]
[1,3]oxazine
11, 671-763



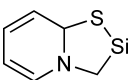
C₂NPS-C₄N₂
6H-1-Thia-3a,7-diaza-
3-phospha-indene
11, 671-763



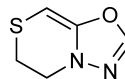
C₂N₂O-C₄NS
8H-[1,2,4]Oxadiazolo[3,4-c]
[1,4]thiazine
11, 671-763



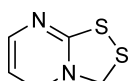
C₂NSSi-C₅N
2,3-Dihydro-7aH-1-thia-3a-aza-
2-sila-indene
11, 606



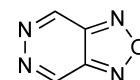
4,5-Dihydro-1-oxa-6-thia-3,
3a-Diaza-indene
11, 671-763



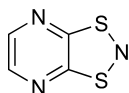
C₂NS₂-C₄N₂
5H-[1,2,4]Dithiazolo[4,3-a]pyrimidine
11, 671-763



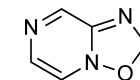
C₂N₂O-C₄N₂
2H-1,2,4-Oxadiazolo[2,3-b]
pyridazine
5, 343, 348; 6, 545f, 10, 684, 684



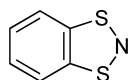
[1,2,3]Dithiazolo[4,5-b]pyrazine
6, 52, 52-53, 55



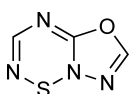
2H-[1,2,4]Oxadiazolo[2,3-a]pyrazine
11, 671-763



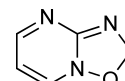
C₂NS₂-C₆
Benzo[1,3,2]dithiazole
6, 37-59



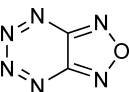
C₂N₂O-C₂N₃S
1-Oxa-4-thia-3,3a,5,7-tetraaza-indene
11, 909-918



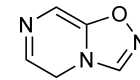
2H-[1,2,4]Oxadiazolo[2,3-a]
pyrimidine
11, 671-763

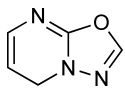
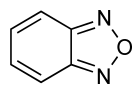
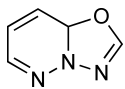
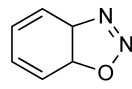
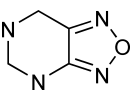
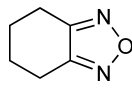
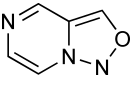
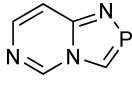
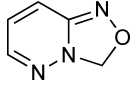
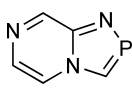
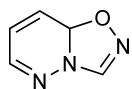
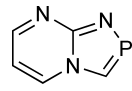
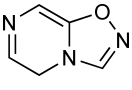
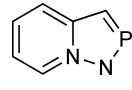
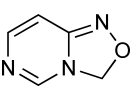
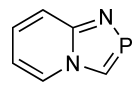
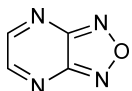
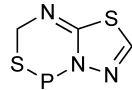
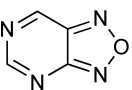
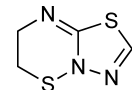
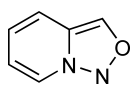
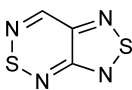
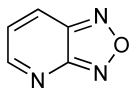
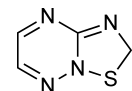
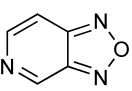


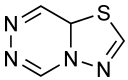
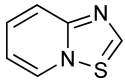
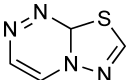
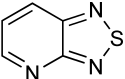
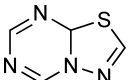
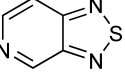
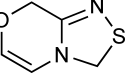
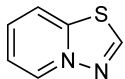
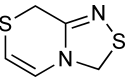
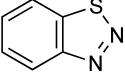
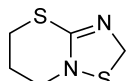
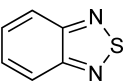
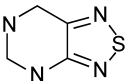
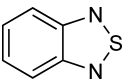
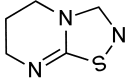
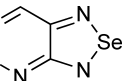
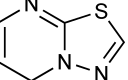
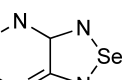
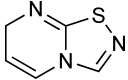
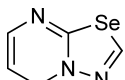
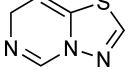
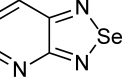
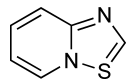
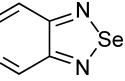
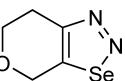
C₂N₂O-C₂N₄
2-Oxa-1,3,4,5,6,7-hexaaza-indene
10, 703-712



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

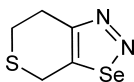


5H-[1,3,4]Oxadiazolo[3,2-a]pyrimidine 11, 671–763		C ₂ N ₂ O-C ₆ Benzofurazan 5, 315–395; 8, 313–314	
7aH-1-Oxa-3,3a,4-triaza-indene 11, 671–763		1,2,3-Benzoxadiazole 5, 225, 5, 232, 5, 233	
4,5,6,7-Tetrahydro-[1,2,5]oxadiazolo [3,4-d]pyrimidine 5, 332, 373, 10, 690f, 691f		4,5,6,7-Tetrahydro-benzo [1,2,5]oxadiazole 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-tetraaza-indene 11, 847–893	
[1,2,5]Oxadiazolo[3,4-c] pyridine 10, 511–524			

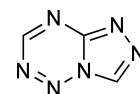
7aH-1-Thia-3,3a,5,6-tetraaza-indene 11, 847–893		[1,2,4]Thiadiazolo[2,3-a]pyridine 11, 589–627	
8aH-[1,3,4]Thiadiazolo[2,3-c] [1,2,4]triazine 11, 847–893		[1,2,5]Thiadiazolo[3,4-b] pyridine 10, 511–524	
8aH-[1,3,4]Thiadiazolo[3,2-a] [1,3,5]triazine 11, 847–893		[1,2,5]Thiadiazolo[3,4-c] pyridine 10, 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	
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		1,3-Dihydro-benzo[1,2,5]thiadiazole 5, 550–800	
2,3,6,7-Tetrahydro-5H-[1,2,4] thiadiazolo[4,5-a]pyrimidine 5, 496		C ₂ N ₂ Se-C ₃ N ₂ S 3H-5-Thia-2-selena- 1,3,4,6-tetraaza-indene 10, 703–712	
5H-[1,3,4]Thiadiazolo[3,2-a]pyrimidine 11, 671–763		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	
7H-[1,2,4]Thiadiazolo[4,5-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	
6H-1-Thia-3,3a,5-triaza-indene 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	
C ₂ N ₂ S-C ₅ N 3λ ⁴ -[1,2,4]Thiadiazolo[2,3-a] pyridine 11, 607		[1,2,5]Selenadiazolo[3,4-c] pyridine 6, 568–569, 10, 511–524	
		C ₂ N ₂ Se-C ₅ O 6,7-Dihydro-4H-5-oxa-3-selena- 1,2-diaza-indene 6, 562f	

C₂N₂Se-C₅S

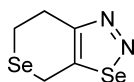
6,7-Dihydro-4H-5-thia-3-selena-
1,2-diaza-indene
6, 562*f*



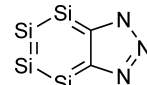
1,2,4-Triazolo[4,3-c] [1,2,3,5]tetrazine

C₂N₂Se-C₅Se

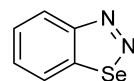
6,7-Dihydro-4H-5-selena-3-selena-
1,2-diaza-indene
6, 562*f*

C₂N₃-C₂Si₄

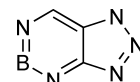
1H-[1,2,3,4]Tetrasilino[5,6-d]
[1,2,3]triazole
10, 703–712

C₂N₂Se-C₆

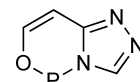
1,2,3-Benzoselenadiazole
6, 549*f*; 6, 552*f*; 6, 557–558;
6, 562*f*; 6, 566*f*

C₂N₃-C₃BN₂

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

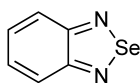
C₂N₃-C₃NOP

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

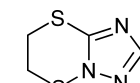


2,1,3-Benzoselenadiazole

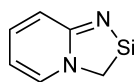
6, 543–544; 6, 544; 6, 545*f*; 6,
552*f*; 6, 552; 6, 558*f*; 6, 560*f*;
6, 568*f*; 6, 568–569

C₂N₃-C₃NS₂

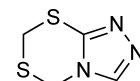
5,6-Dihydro-4,7-dithia-
1,3,3a-triaza-indene
11, 847–893

C₂N₂Si-C₅N

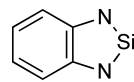
2,3-Dihydro-[1,4,2]diazasilolo
[4,5-a]pyridine
11, 606



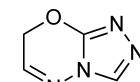
5,7-Dithia-1,2,3a-triaza-indene
11, 847–893

C₂N₂Si-C₆

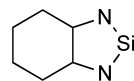
2,3-Dihydro-1H-benzo[1,3,2]
diazasilole
6, 655–690

C₂N₃-C₃N₂O

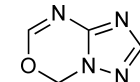
6H-7-Oxa-1,2,3a,4-tetraaza-indene
11, 847–893



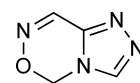
Octahydro-benzo[1,3,2]diazasilole
6, 664



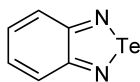
5-Oxa-1,3,3a,7-tetraaza-indene
11, 847–893



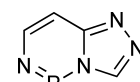
5-Oxa-1,2,3a,6-tetraaza-indene
11, 847–893

C₂N₂Te-C₆

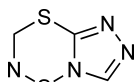
2,1,3-Benzotelluradiazole
6, 569*f*

C₂N₃-C₃N₂P

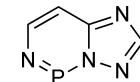
1,2,3a,5-Tetraaza-4-phospha-indene
11, 847–893

C₂N₃-C₂N₂S₂

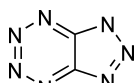
5,6-Dihydro-4,7-dithia-1,2,3a,
5-tetraaza-indene
11, 909–918



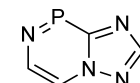
1,3,3a,5-Tetraaza-4-phospha-indene
11, 847–893

C₂N₃-C₂N₄

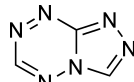
1,2,3-Triazolo[4,5-c]-1,2,3,4-
tetrazine
10, 703–712



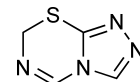
1,3,3a,6-Tetraaza-7-phospha-indene
11, 847–893

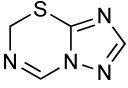
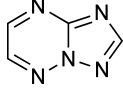
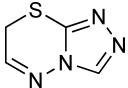
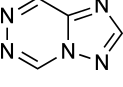
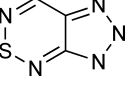
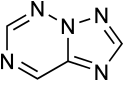
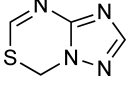
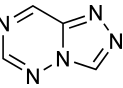
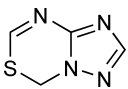
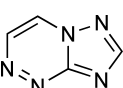
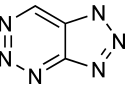
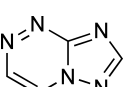
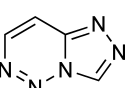
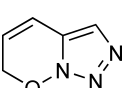
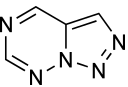
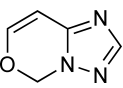
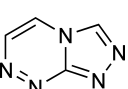
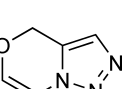
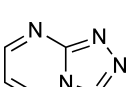
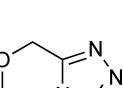
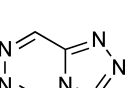
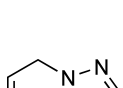
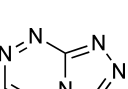
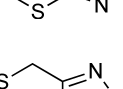
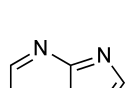
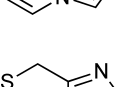


1,2,4-Triazolo[4,3-b] [1,2,4,5]tetrazine
11, 909–918

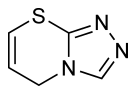
C₂N₃-C₃N₂S

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

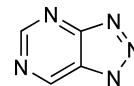


6H-7-Thia-1,3,3a,5-tetraaza-indene 11, 847-893		C ₂ N ₃ -C ₃ N ₃ [1,2,4]Triazolo[1,5-b] [1,2,4]triazine 11, 847-893	
7H-[1,2,4]Triazolo[3,4-b] [1,3,4]thiadiazine 11, 847-893		[1,2,4]Triazolo[1,5-d] [1,2,4]triazine 11, 847-893	
2,3-Dihydro-[1,2,3]triazolo[4,5-c] [1,2,6]thiadiazine 10, 703-712		[1,2,4]Triazolo[3,4-f][1,2,4] 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	

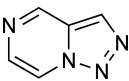
5H-[1,2,4]Triazolo[3,4-b][1,3]thiazine
11, 671–763



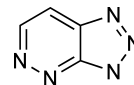
1H-1,2,3-Triazolo[4,5-d] pyrimidine
10, 683f



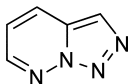
C₂N₃-C₄N₂
[1,2,3]Triazolo[1,5-a]pyrazine
11, 671–763



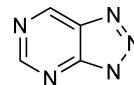
3H-[1,2,3]Triazolo[4,5-c]pyridazine
10, 689



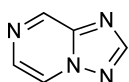
[1,2,3]Triazolo[1,5-b]pyridazine
6, 337f



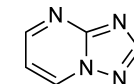
3H-[1,2,3]Triazolo[4,5-d]pyrimidine
10, 689f, 689



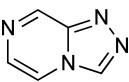
[1,2,4]Triazolo[1,5-a]pyrazine
11, 671–763



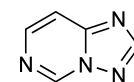
[1,2,4]Triazolo[1,5-a] pyrimidine
11, 671–763



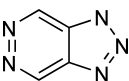
1,2,4-Triazolo[4,3-a]pyrazine
11, 671–763



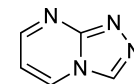
[1,2,4]Triazolo[1,5-c] pyrimidine
11, 671–763



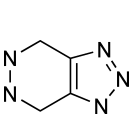
1H-1,2,3-Triazolo[4,5-d] pyridazine
10, 681, 681



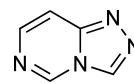
1,2,4-Triazolo[4,3-a] pyrimidine
11, 671–763



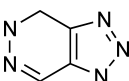
4,5,6,7-Tetrahydro-1H-[1,2,3]
triazolo[4,5-d]pyridazine
10, 682f



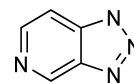
1,2,4-Triazolo[4,3-c] pyrimidine
11, 671–763



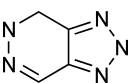
4,5-Dihydro-1H-[1,2,3]triazolo
[4,5-d]pyridazine
10, 683f



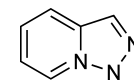
C₂N₃-C₅N
1H-[1,2,3]Triazolo[4,5-c] pyridine
10, 511–524



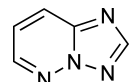
4,5-Dihydro-2H-[1,2,3]triazolo
[4,5-d]pyridazine
8, 45



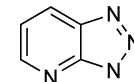
1H-[1,2,3]Triazolo[1,5-a]pyridine
11, 589–627; 6, 551f



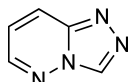
[1,2,4]Triazolo[1,5-b] pyridazine
11, 671–763



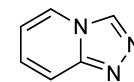
3H-[1,2,3]Triazolo[4,5-b]pyridine
10, 511–524



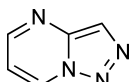
1,2,4-Triazolo[4,3-b]pyridazine
11, 671–763



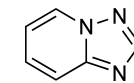
1,2,4-Triazolo[4,3-a]pyridine
11, 589–627



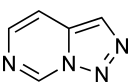
[1,2,3]Triazolo[1,5-a] pyrimidine
11, 671–763



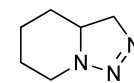
[1,2,4]Triazolo[1,5-a]pyridine
11, 589–627



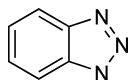
[1,2,3]Triazolo[1,5-c]pyrimidine
11, 671–763



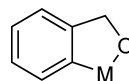
3,3a,4,5,6,7-Hexahydro-[1,2,3]
triazolo[1,5-a]pyridine
11, 600, 589–627



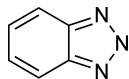
C₂N₃-C₆
1H-Benzotriazole
5, 1-158



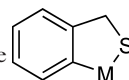
C₃(M)O-C₆
1,3-Dihydrobenzo[c][1,2]
oxametallabole
4, 1119-1153



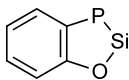
2H-Benzotriazole
5, 1-158



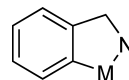
C₃(M)S-C₆
1,3-Dihydrobenzo[c][1,2]thiametallabole
4, 1119-1153



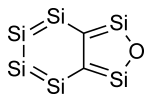
C₂OPSi-C₆
1-Oxa-3-phospha-2-sila-indan
6, 661



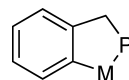
C₃(M)N-C₆
2,3-Dihydro-1H-benzo[c][1,2]
azametallabole
4, 1119-1153



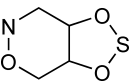
C₂OSi₂-C₂Si₄
2-Oxa-1,3,4,5,6,7-hexasila-indene
10, 703-712



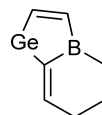
C₃(M)P-C₆
2,3-Dihydro-1H-benzo[c][1,2]
phosphametallabole
4, 1119-1153



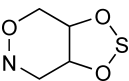
C₂O₂S-C₄NO
Tetrahydro-1,3,5-trioxa-2-thia-
6-aza-indene
6, 155*t*



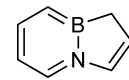
C₃BGe-C₅B
1,4,5,6-Tetrahydro-1-germa-3a-bora-
indene
12, 573-633



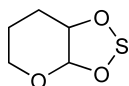
3a*H*-[1,3,2]Dioxathiolo
[4,5-d][1,2]oxazine
6, 155*t*



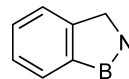
C₃BN-C₄BN
1H-3a-Aza-7a-bora-indene
4, 1204, 1204



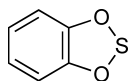
C₂O₂S-C₅O
Tetrahydro-[1,3,2]dioxathiolo
[4,5-b]pyran
6, 154; 6, 170*t*; 6, 173*t*



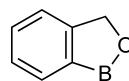
C₃BN-C₆
2,3-Dihydro-1H-benzo[c][1,2]-
azaborole
4, 1189-1224



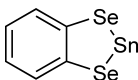
C₂O₂S-C₆
1,3,2-Benzodioxaphosphole
6, 161*t*



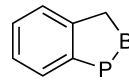
C₃BO-C₆
1,3-Dihydro-benzo[c][1,2]oxaborole
4, 1189-1224



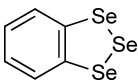
C₂Se₂Sn-C₆
1,3-Diselena-2-stanna-indan
6, 575*f*



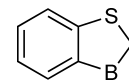
C₃BP-C₆
1-Phospha-2-bora-indan
4, 1202



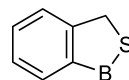
C₂Se₃-C₆
Benzotrisesenole
6, 527*t*; 6, 557; 6, 575*f*



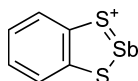
C₃BS-C₆
1-Thia-3-bora-indan
4, 1189-1224



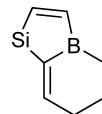
2-Thia-1-bora-indan
4, 1189-1224



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

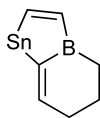


C₃BSi-C₃B
1,4,5,6-Tetrahydro-1-sila-3a-bora-indene
12, 573-633

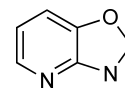


C₃BSn-C₅B

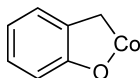
1,4,5,6-Tetrahydro-1-stanna-
3a-bora-indene
12, 573–633



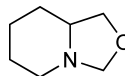
2,3-Dihydro-oxazolo[4,5-b]pyridine
10, 474

C₃CoO-C₆

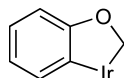
4,5-Benzo-1-oxa-2-cobalta-
cyclopentene
4, 1244–1245, 1249



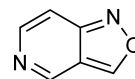
Hexahydro-oxazolo[3,4-a]pyridine
11, 409–499

C₃IrO-C₆

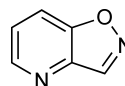
2,3-Dihydrobenzo[d][1,3]oxairidabole
4, 1271–1304



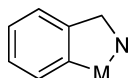
Isoxazolo[4,3-c]pyridine
7, 135



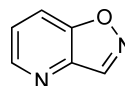
Isoxazolo[4,5-b]pyridine
7, 278

C₃N(X)-C₆

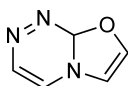
2,3-Dihydro-1H-benzo[c][1,2]
azametallabole
4, 1119–1153



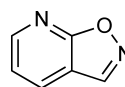
Isoxazolo[4,5-b]pyridine
10, 476

C₃NO-C₃N₃

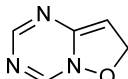
7aH-1-Oxa-3a,6,7-triaza-indene
11, 765–817



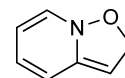
Isoxazolo[5,4-b]pyridine
10, 475



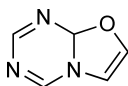
7H-Isoxazolo[2,3-a][1,3,5]triazine
11, 765–817



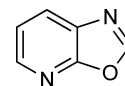
2H-Isoxazolo[2,3-a]pyridine
11, 409–499



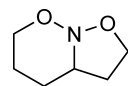
8aH-Oxazolo[3,2-a][1,3,5]triazine
11, 765–817



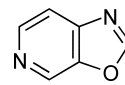
Oxazolo[5,4-b]pyridine
10, 599–659

C₃NO-C₄NO

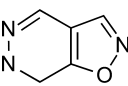
Hexahydro-isoxazolo[2,3-b][1,2]oxazine
4, 403



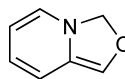
Oxazolo[5,4-c]pyridine
4, 523

C₃NO-C₄N₂

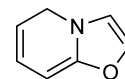
6,7-Dihydro-isoxazolo[4,5-d]pyridazine
4, 432–433



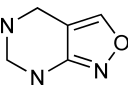
3H-Oxazolo[3,4-a]pyridine
11, 409–499



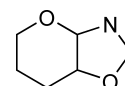
5H-Oxazolo[3,2-a]pyridine
11, 409–499



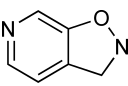
4,5,6,7-Tetrahydro-isoxazolo
[3,4-d]pyrimidine
4, 381–382



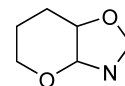
C₃NO-C₅O
Hexahydro-pyrano[2,3-d]oxazole
6, 170*r*

C₃NO-C₅N

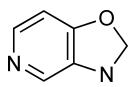
2,3-Dihydro-isoxazolo[5,4-c]pyridine
10, 475



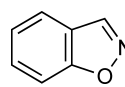
Hexahydro-2H-pyrano[2,3-d]oxazole
6, 170*r*



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



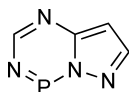
C₃NO-C₆
1,2-Benzisoxazole
4, 365–485; 5, 215*r*



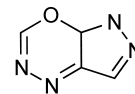
2,1-Benzisoxazole 4, 365–485		2-Thia-3a,5,6-triaza-indene 11, 765–817	
Benzoxazole 4, 487–543; 7, 79f		2H-1-Thia-4,5,7a-triaza-indene 11, 765–817	
Octahydro-benzooxazole 1, 37		7aH-1-Thia-3a,4,6-triaza-indene 11, 765–817	
C ₃ NP-C ₅ N [1,3]Azaphospholo[1,5-a]pyridine 4, 1174, 1175, 1176, 1180		Thiazolo[4,3-c][1,2,4]triazine 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-e][1,3,4,2] oxadiazaborolium 10, 703–712		1,4,4a,7a-Tetrahydro-thiazolo[4,5-e] [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-e][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]isosenazole 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	

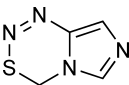
C₃N₂-C₂N₃P
1,4,6,7a-Tetraaza-7-phospha-indene
11, 895-908



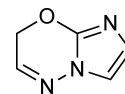
C₃N₂-C₃N₂O
4a,5-Dihydro-pyrazolo[4,3-c][1,3,4]
oxadiazine
10, 685f



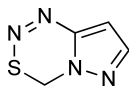
C₃N₂-C₂N₃S
5-Thia-2,3a,6,7-tetraaza-indene
11, 895-908



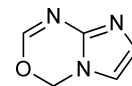
2H-Imidazo[2,1-b][1,3,4]
oxadiazine
11, 765-817



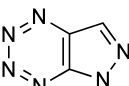
6-Thia-1,4,5,7a-tetraaza-indene
11, 895-908



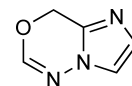
5-Oxa-1,3a,7-triaza-indene
11, 765-817



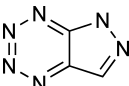
C₃N₂-C₂N₄
1H-1,2,4,5,6,7-Hexaaza-indene
9, 717



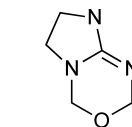
7H-6-Oxa-1,3a,4-triaza-indene
11, 765-817



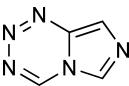
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10, 703-712



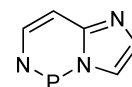
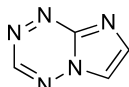
1,2,3,6-Tetrahydro-5-oxa-1,3a,
7-triaza-indene
9, 465, 469



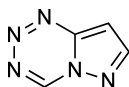
Imidazo[5,1-d][1,2,3,5]tetrazine
11, 895-908



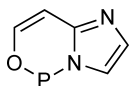
C₃N₂-C₃N₂P
4,5-Dihydro-1,3a,5-triaza-4-
phospha-indene
11, 765-817



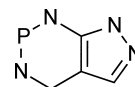
N-Imidazol-1-yl-formamidine
11, 895-908



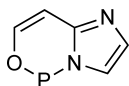
Pyrazolo[5,1-d][1,2,3,5]tetrazine
11, 895-908



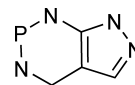
2,3,4,7-Tetrahydro-1H-pyrazolo
[3,4-d][1,3,2]diazaphosphinine
10, 685f, 685f



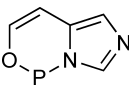
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5-Oxa-1,3a-diaza-4-phospha-indene
11, 765-817



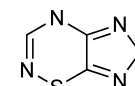
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11, 765-817



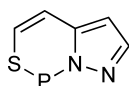
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11, 765-817



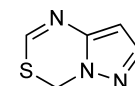
C₃N₂-C₃N₂S
4,6-Dihydro-imidazo[4,5-c]
[1,2,4]thiadiazine
9, 313



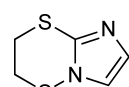
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6-Thia-1,7a-diaza-7-phospha-indene
11, 765-817



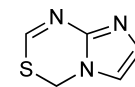
Pyrazolo[1,5-c][1,3,5]thiadiazine
11, 765-817



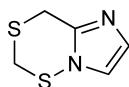
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5,6-Dihydro-4,7-dithia-1,3a-
diaza-indene
11, 765-817



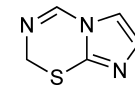
4H-Pyrazolo[5,1-c][1,3,5] thiadiazine
11, 765-817

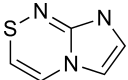
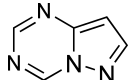
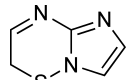
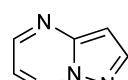
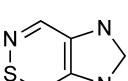
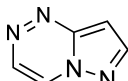
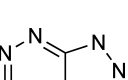
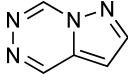
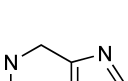
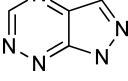
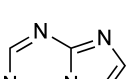
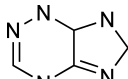
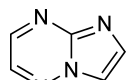
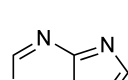
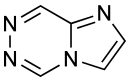
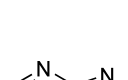
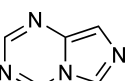
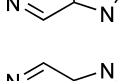
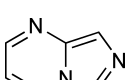
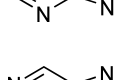
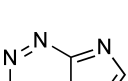
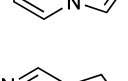
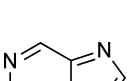
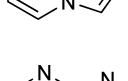
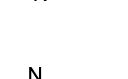
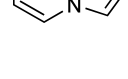


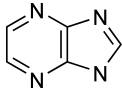
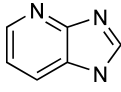
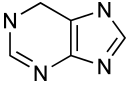
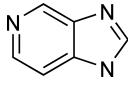
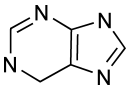
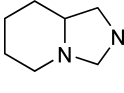
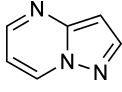
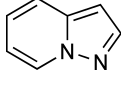
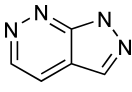
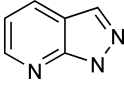
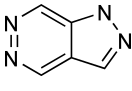
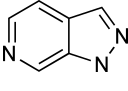
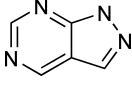
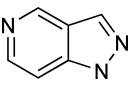
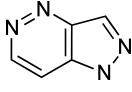
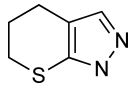
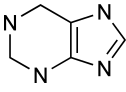
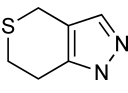
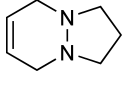
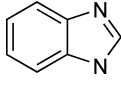
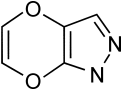
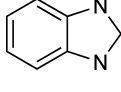
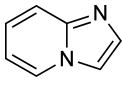
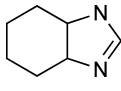
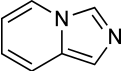
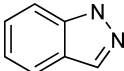
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indene
11, 765-817

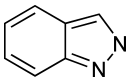

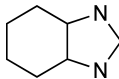
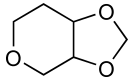
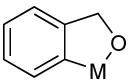
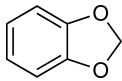
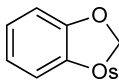
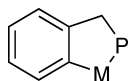
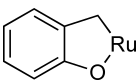
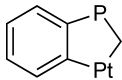
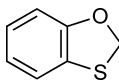
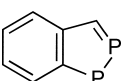
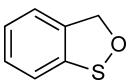
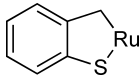
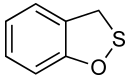
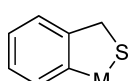
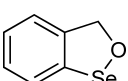
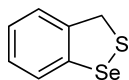
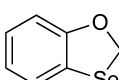
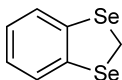
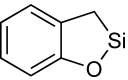
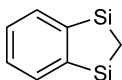
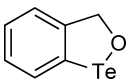
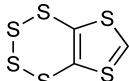


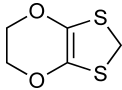
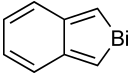
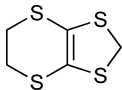
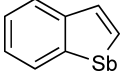
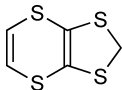
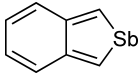
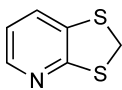
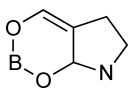
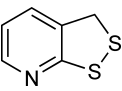
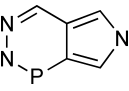
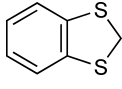
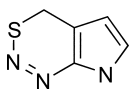
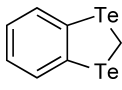
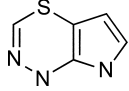
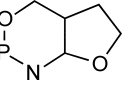
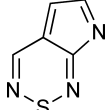
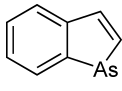
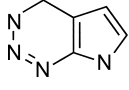
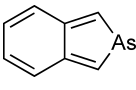
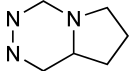
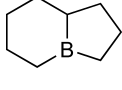
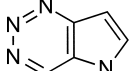
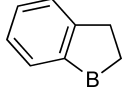
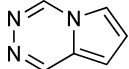
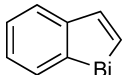
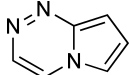
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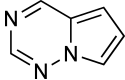
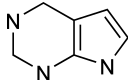
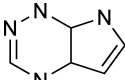
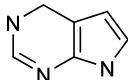
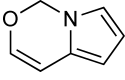
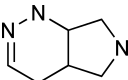
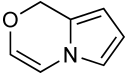
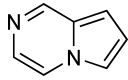
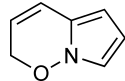
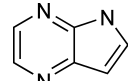
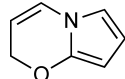
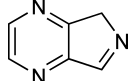
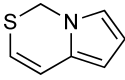
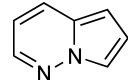
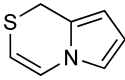
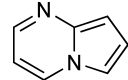
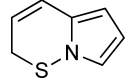
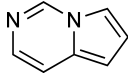
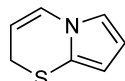
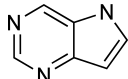
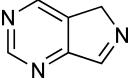
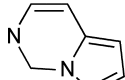
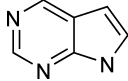
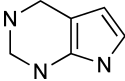
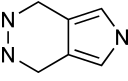


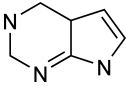
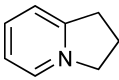
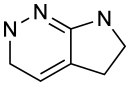
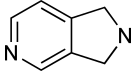
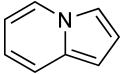
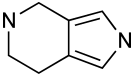
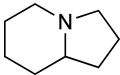
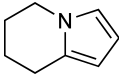
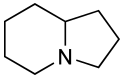

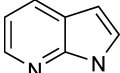
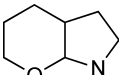
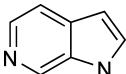
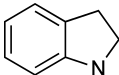
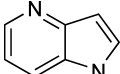
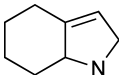
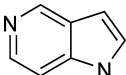
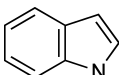
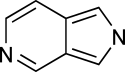
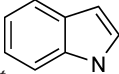
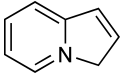
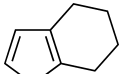
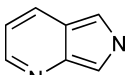
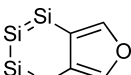
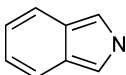
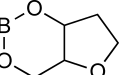
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5H-4-Thia-1,3a,7-triaza-indene 11, 765–817		Pyrazolo[1,5-b][1,2,4]triazine 11, 765–817	
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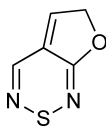
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Octahydro-benzoimidazole 4, 239-240		Tetrahydro-[1,3]dioxolo[4,5-c]pyran 6, 173 <i>t</i>	
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1,3-Dithiolo[4,5-b][1,4]dithiin 4, 955-1090		2 <i>H</i> -Benzo[<i>c</i>]stibole 3, 1149-1179	
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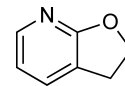
Pyrrolo[2,1-f][1,2,4]triazine 11, 629–644, 635, 635, 636, 636–637		4,7-Dihydro-3H-pyrrolo[2,3-d]pyrimidine 10, 356	
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2H-Pyrrolo[1,2-b][1,2]thiazine 11, 501–549		Pyrrolo[1,2-c]pyrimidine 11, 501–549	
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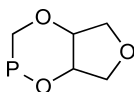
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2H-1-Oxa-6-thia-5,7-diaza-indene
10, 505



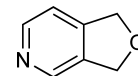
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2,3-Dihydro-furo[2,3-b]pyridine
10, 288, 298, 309, 10, 713-757



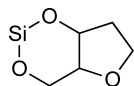
C₄O-C₃O₂P
Hexahydro-furo[3,4-c]
[1,4,2]dioxaphosphinine
10, 504



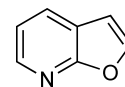
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7, 54-55



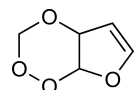
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Tetrahydro-furo[3,2-d][1,3,2]dioxasiline
10, 503



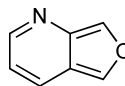
Furo[2,3-b]pyridine
10, 298, 309, 10, 713-757



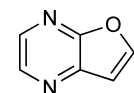
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3a,7a-Dihydro-1,4,6,7-tetraoxa-indene
10, 504



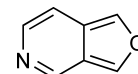
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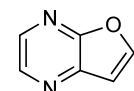
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Furo[2,3-b]pyrazine
10, 381



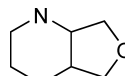
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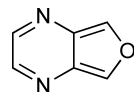
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10, 392



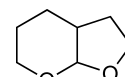
Octahydro-furo[3,4-b]pyridine
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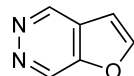
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10, 393



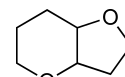
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Hexahydro-furo[2,3-b]pyran
10, 293, 301, 317, 10, 713-757



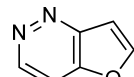
Furo[2,3-d]pyridazine
10, 382



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



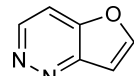
Furo[3,2-c]pyridazine
10, 382



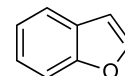
8-Oxa-bicyclo[3.2.1]oct-6-ene
3, 431, 434



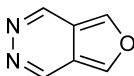
Furo[3,2-c]pyridazine
10, 383



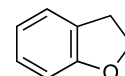
C₄O-C₆
Benzofuran
3, 389-406; 3, 407-496, 455;
3, 571-623; 6, 548f; 6, 562f



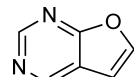
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10, 383



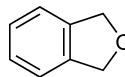
2,3-Dihydro-benzofuran
3, 468; 3, 497-569; 3, 571-623



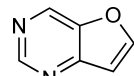
Furo[2,3-d]pyrimidine
10, 384



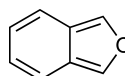
1,3-Dihydro-isobenzofuran
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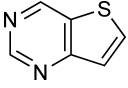
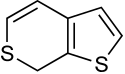
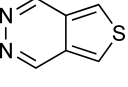
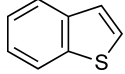
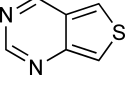
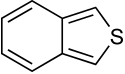
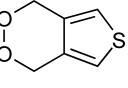
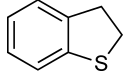
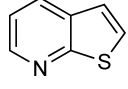
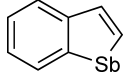
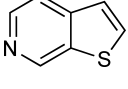
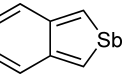
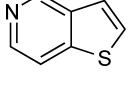
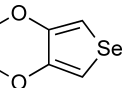
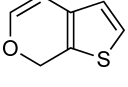
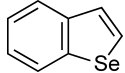
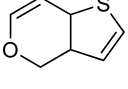
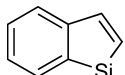
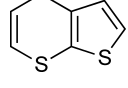
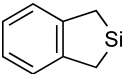
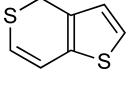
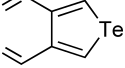
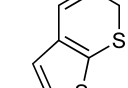
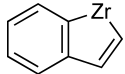
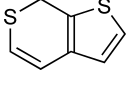
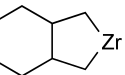
Furo[3,2-d]pyrimidine
10, 391

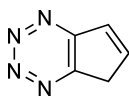
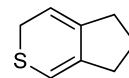
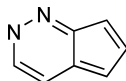


Isobenzofuran
3, 389-406; 3, 454; 3, 497-569,
551; 3, 571-623

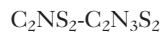


4,5,6,7-Tetrahydro-benzofuran 3, 413; 3, 508, 511, 514f; 3, 571-623		4H-1,7-Dithia-4,6-diaza-indene 10, 501f	
4,5,6,7-Tetrahydro-isobenzofuran 3, 414f; 3, 514f; 3, 571-623		7H-1,4-Dithia-6,7-diaza-indene 10, 155	
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1-Phospha-bicyclo[3.2.1]octane 12, 552f		7H-2,4-Dithia-5,7-diaza-indene 9, 313, 326	
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C ₄ Pd-C ₆ 1H-1-Palladia-indene 3, 1287		C ₄ S-C ₄ NO 1,4-Dihydro-2H-thieno[3,2-d][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-c][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-b]pyrazine 10, 417	
C ₄ S-C ₃ N ₂ S 3,4-Dihydro-2H-thieno[2,3-c][1,2,4]- thiadiazine 10, 501f		Thieno[2,3-b]pyrazine 10, 415	
5,6-Dihydro-4H-1,7-dithia-4,6-diaza- indene 10, 501f		C ₄ S-C ₃ N ₂ S 1,4-Dihydro-thieno[3,4-d]pyridazine 3, 753, 753-754	
6,7-Dihydro-5H-2,4-dithia-5,7-diaza- indene 10, 500f		5,7-Dihydro-thieno[3,4-d]pyrimidine 8, 221	
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		Thieno[2,3-c]pyridazine 10, 395	
		Thieno[2,3-d]pyrimidine 10, 396	

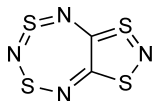
Thieno[3,2-d]pyrimidine 10, 408		7H-Thieno[2,3-c]thiopyran 4, 1028f	
Thieno[3,4-d]pyridazine 10, 395		C ₄ S-C ₆ 1-Benzothiophene 3, 625-739; 3, 741-841; 3, 931-974; 3, 843-930	
Thieno[3,4-d]pyrimidine 10, 406		2-Benzothiophene 3, 625-739; 3, 741-841; 3, 843-930	
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C 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-dioxo-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, 549f	
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, 1015f	
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

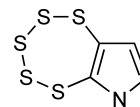
5,7



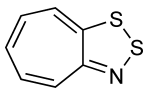
1,3,2-Dithiazolo[4,5-c][1,3,2,4,7]-
dithiaziazepine-3,5
6, 43, 54



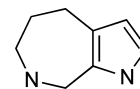
1H-4,5,6,7,8-Pentathia-1-aza-azulene
3, 166–167



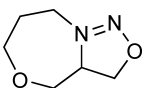
Cyclohepta[1,2,3]dithiazole
6, 29



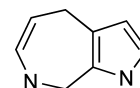
1,4,5,6,7,8-Hexahydro-pyrrolo-
[2,3-c]azepine
1, 601



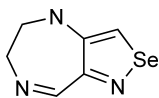
3a,4,7,8-Tetrahydro-3H,6H-2,5-
dioxo-1,8a-diaza-azulene
5, 214; 5, 222



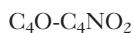
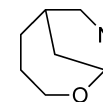
1,4,7,8-Tetrahydro-pyrrolo-
[2,3-c]azepine
1, 601



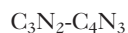
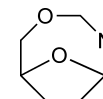
5,6-Dihydro-4H-isoselenazolo[4,3-c]-
[1,4]diazepine
4, 780–781



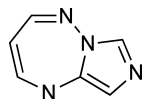
2-Oxa-8-aza-bicyclo[4.2.1]nonane
14, 191



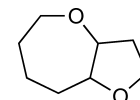
4,9-Dioxo-2-aza-bicyclo[4.2.1]nonane
14, 191



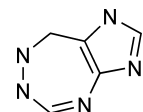
1H-Imidazo[1,5-b][1,2,4] triazepine
13, 419f



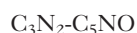
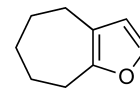
Octahydro-furo[3,2-b]oxepine
13, 57, 58



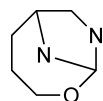
1,6,7,8-Tetrahydro-imidazo[4,5-c]-
[1,2,4]triazepine
13, 419, 420f



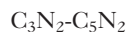
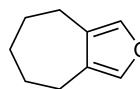
5,6,7,8-Tetrahydro-4H-cyclohepta[b]-
furan
3, 504



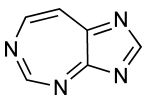
2-Oxa-8,9-diaza-bicyclo[4.2.1]nonane
14, 191



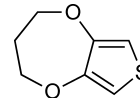
5,6,7,8-Tetrahydro-4H-cyclohepta[c]-
furan
3, 500–501



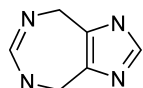
Imidazo[4,5-d][1,3]diazepine
13, 161–182



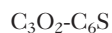
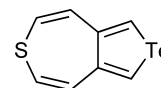
3,4-Dihydro-2H-thieno[3,4-b][1,4]-
dioxepine
13, 372



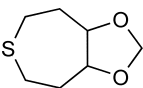
1,4,5,8-Tetrahydro-1,3,5,7-tetraaza-
azulene
13, 169



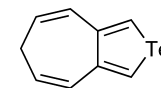
Tellurolo[3,4-d]thiopicine
3, 1015f



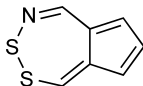
Hexahydro-thiepine[4,5-d][1,3]dioxole
4, 853–854



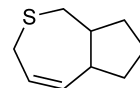
6H-Cyclohepta[c]tellurophene
3, 1015f



C₅-C₄NS₂
5,6-Dithia-7-aza-azulene
13, 396



C₅-C₆S
3,5a,6,7; 8,8a-Hexahydro-1H-cyclo-
penta[c]thiepine
13, 131

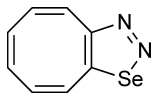


5,8

$C_2N_2Se-C_8$

Cycloocta-1,2,3-selenadiazole

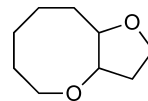
6, 550*f*; 6, 551*f*



C_4O-C_7O

Octahydro-furo[3,2-b]oxocine

14, 67*f*

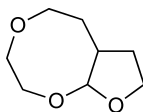


$C_4O-C_5O_2$

Octahydro-1,6,9-trioxa-

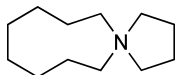
cyclopentacyclooctene

3, 529

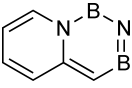
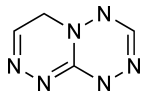
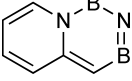
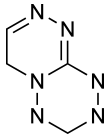
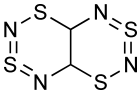
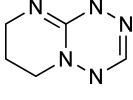
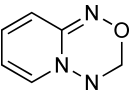
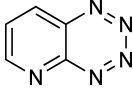
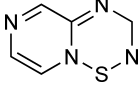
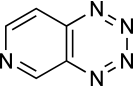
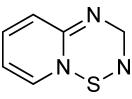
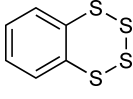
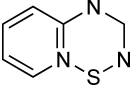
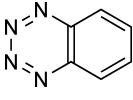
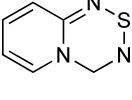
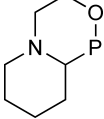
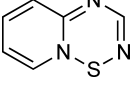
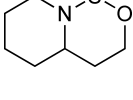
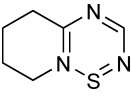
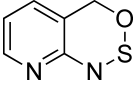
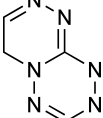
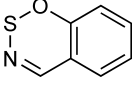


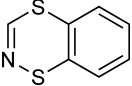
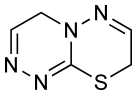
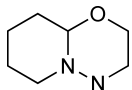
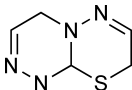
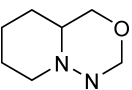
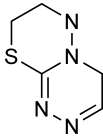
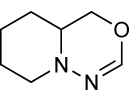
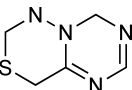
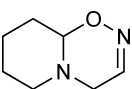
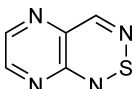
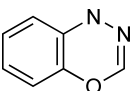
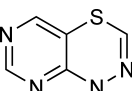
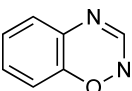
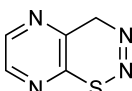
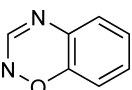
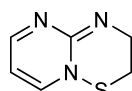
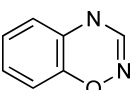
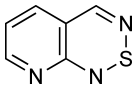
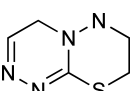
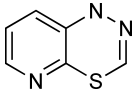
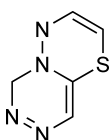
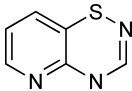
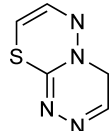
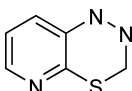
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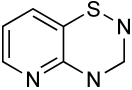
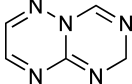
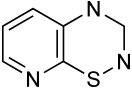
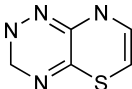
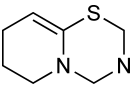
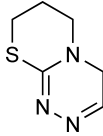
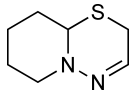
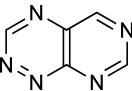
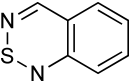
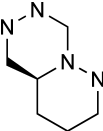
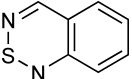
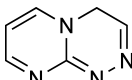
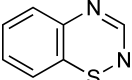
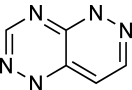
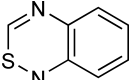
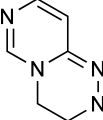
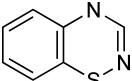
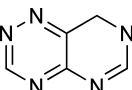
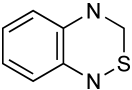
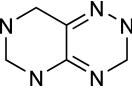
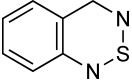
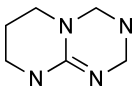
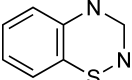
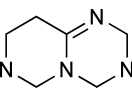
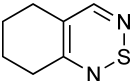
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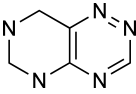
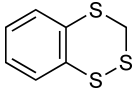
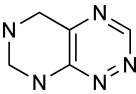
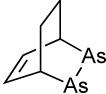
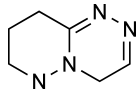
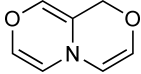
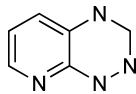
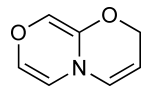
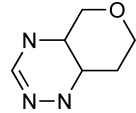
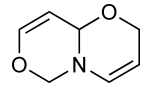
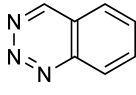
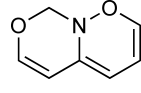
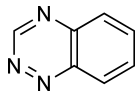
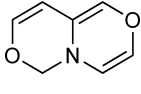
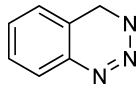
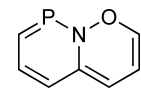
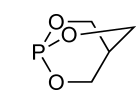
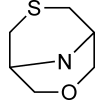
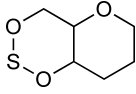
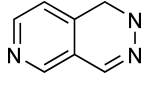
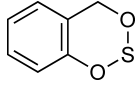
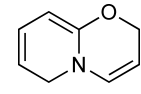
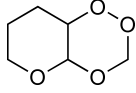
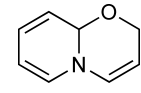
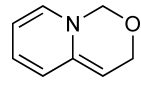


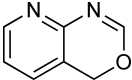
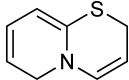
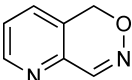
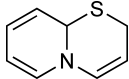
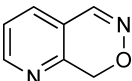
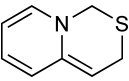
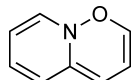
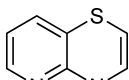
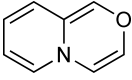
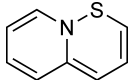
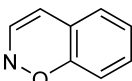
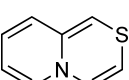
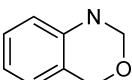
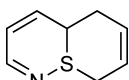
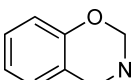
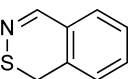

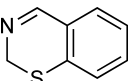
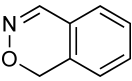
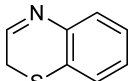
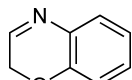
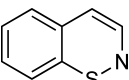
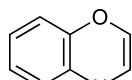
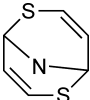
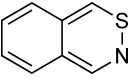
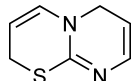
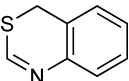
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1H-2,8a-Diaza-1,3-dibora-naphthalene 12, 321–325		1,3,4,5-Tetrahydro-2H-1,2,4,4a,7,8-hexaaza-naphthalene 12, 357–363	
$C_2N_2S_2-C_2N_2S_2$ 1,5-Dihydro-1,3,5,7-tetrathia-2,4,6,8-tetraaza-naphthalene 9, 749		$C_2N_4-C_4N_2$ 1,6,7,8-Tetrahydro-4H-pyrimido-[1,2-b][1,2,4,5]tetrazine 12, 341–346	
$C_2N_3O-C_5N$ 3,4-Dihydro-pyrido[2,1-c][1,2,4,5]-oxatriazine 12, 321–325		$C_2N_4-C_5N$ Pyrido[2,3-c][1,2,3,4]tetrazine 10, 1126f	
$C_2N_3S-C_4N_2$ 2,3-Dihydro-pyrazino[1,2-b][1,2,4,6]-thiatriazine 12, 341–346		Pyrido[3,4-e][1,2,3,4]tetrazine 9, 717	
$C_2N_3S-C_5N$ 2,3-Dihydro-pyrido[1,2-b][1,2,4,6]-thiatriazine 12, 321–325		$C_2N_4-C_6$ Benzotetrahiine 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		C_3NOP-C_5N Octahydro-2-oxa-4a-aza-1-phosphanaphthalene 12, 250	
Pyrido[1,2-b][1,2,4,6]thiatriazine 12, 321–325		C_3NOS-C_5N Hexahydro-pyrido[1,2-c][1,2,3]-oxathiazine 12, 247f	
5,6,7,8-Tetrahydro-1λ ⁴ -pyrido[1,2-b]-[1,2,4,6]thiatriazine 12, 341–346		1,4-Dihydro-3-oxa-2-thia-1,8-diazanaphthalene 10, 902	
$C_2N_4-C_3N_3$ 1,5-Dihydro-2H-1,2,4,4a,7,8-hexaaza-naphthalene 12, 357–363		C_3NOS-C_6 Benzo[e][1,2,3]oxathiazine 1, 587–588	

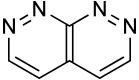
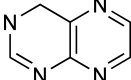
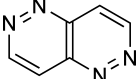
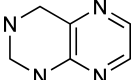
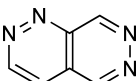
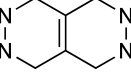
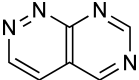
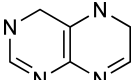
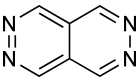
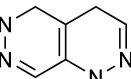
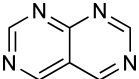
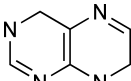
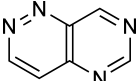
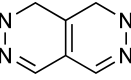
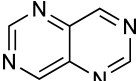
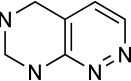
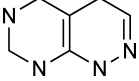
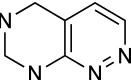
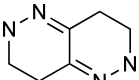
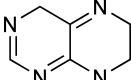
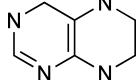
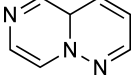
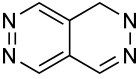
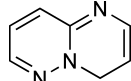

C ₃ NS ₂ -C ₆ 1,4,2-Benzodithiazine 9, 523–567		4H,8H-[1,2,4]Triazino[3,4-b][1,3,4]-thiadiazine 12, 347–355	
C ₃ N ₂ O-C ₅ N Hexahydro-1-oxa-4,4a-diazanaphthalene 12, 243		1,9a-Dihydro-4H,8H-[1,2,4]triazino[3,4-b][1,3,4]thiadiazine 12, 347–355	
Octahydro-3-oxa-1,8a-diazanaphthalene 12, 243		7,8-Dihydro-4H,6H-[1,2,4]triazino[3,4-b][1,3,4]thiadiazine 12, 347–355	
4,4a,5,6,7,8-Hexahydro-3-oxa-1,8a-diazanaphthalene 12, 242		4,5,6,8-Tetrahydro-7-thia-1,3,4a,5-tetraaza-naphthalene 12, 347–355	
7,8,9,9a-Tetrahydro-4H,6H-pyrido[1,2-c][1,2,5]oxadiazine 12, 244f		C ₃ N ₂ S-C ₄ N ₂ 1H-Pyrazino[2,3-c][1,2,6]thiadiazine 9, 357, 359, 375, 375, 10, 1120	
C ₃ N ₂ O-C ₆ 1H-Benzo[1,3,4]oxadiazine 9, 422–423		1H-Pyrimido[4,5-c][1,3,4]thiadiazine 10, 1125	
2H-Benzo[1,2,4]oxadiazine 9, 301–343		4H-1-Thia-2,3,5,8-tetraaza-naphthalene 9, 307–308	
2H-1,2,4-Benzoxadiazine 9, 301–343		2,3-Dihydro-4-thia-1,4a,8-triazanaphthalene 12, 341–346	
4H-Benzo[1,2,4]oxadiazine 9, 301–343		C ₃ N ₂ S-C ₅ N 1H-Pyrido[2,3-c][1,2,6]thiadiazine 9, 364	
C ₃ N ₂ S-C ₃ N ₂ 7,8-Dihydro-4H,6H-[1,2,4]triazino[3,4-b][1,3,4]thiadiazine 12, 347–355		1H-Pyrido[3,2-c][1,3,4]thiadiazine 10, 895–896	
C ₃ N ₂ S-C ₃ N ₃ 4H,5H-1-Thia-4,4a,6,7-tetraaza-naphthalene 12, 347–355		4H-Pyrido[2,3-c][1,2,4]thiadiazine 10, 893–894, 895–896	
4H,6H-[1,2,4]Triazino[3,4-b][1,3,4]-thiadiazine 12, 347–355		2,3-Dihydro-1H-pyrido[3,2-c]-[1,3,4]thiadiazine 10, 895	

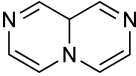
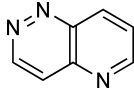
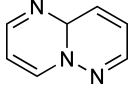
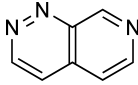
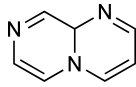
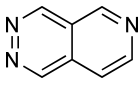
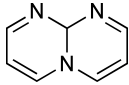
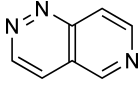
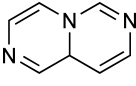
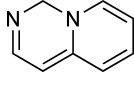
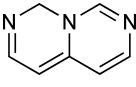
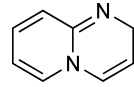
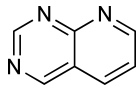
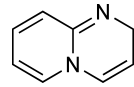
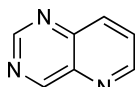
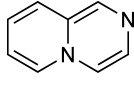
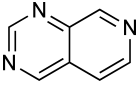
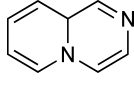
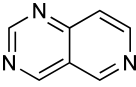
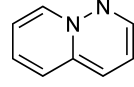
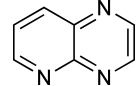
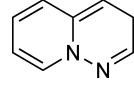
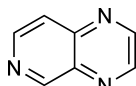
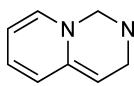
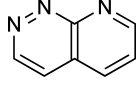
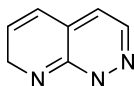
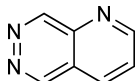
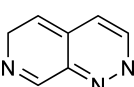
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3,4-Dihydro-2H-1-thia-2,4,8-triaza- naphthalene 9, 307		C ₃ N ₃ -C ₄ NS 2,8-Dihydro-3H-5-thia-1,2,4,8- tetraaza-naphthalene 10, 1121	
3,4,6,7-Tetrahydro-2H,5H-1-thia-3, 4a-diaza-naphthalene 12, 245		7,8-Dihydro-4H,6H-[1,3]thiazino- [2,3-c][1,2,4]triazine 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[e][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	
3,4-Dihydro-2H-benzo[1,2,4]- thiadiazine 9, 301–343		3,4,6,7,8,9-Hexahydro-2H-pyrimido- [1,6-a][1,3,5]triazine 12, 327–340	
5,6,7,8-Tetrahydro-1H-benzo- [1,2,6]thiadiazine 9, 377			

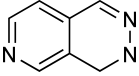
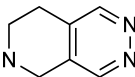
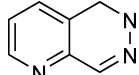
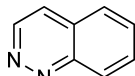
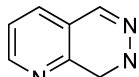
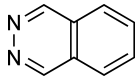
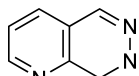
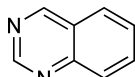
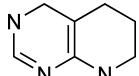
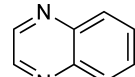
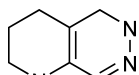

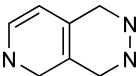
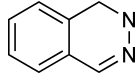
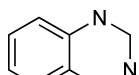
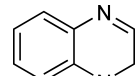
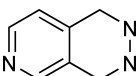
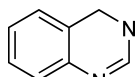
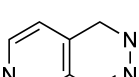
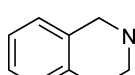
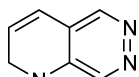
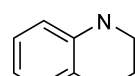
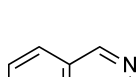
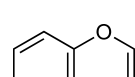
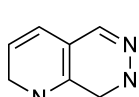
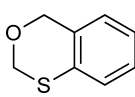
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5,6,7,8-Tetrahydro-pyrimido[5,4-c]-[1,2,4]triazine 10, 1121-1122, 1122		C ₄ As ₂ -C ₆ 2,3-Diarsa-bicyclo[2.2.2]oct-5-ene 9, 884f	
6,7,8,9-Tetrahydro-4H-pyridazino[6,1-c][1,2,4]triazine 12, 327-340		C ₄ NO-C ₄ NO 1H-[1,4]Oxazino[3,4-c][1,4]oxazine 12, 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	
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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[e][1,3]oxazine 8, 373-459		C ₄ NS-C ₆ 1H-2,3-Benzothiazine 8, 513-566	
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1H-2,3-Benzoxazine 8, 333-371		2H-1,4-Benzothiazine 8, 607-675	
2H-1,4-Benzoxazine 8, 461-511		2H-Benzo[e][1,2]thiazine 8, 513-566	
4H-Benzo[1,4]oxazine 8, 461-511		C ₄ NS-C ₄ NS 2,6-Dithia-9-aza-bicyclo[3.3.1]nona-3, 7-diene 14, 463f	
C ₄ NS-C ₄ NS 2,6-Dithia-9-aza-bicyclo[3.3.1]nona-3, 7-diene 14, 463f		3H-Benzo[d][1,2]thiazine 8, 513-566	
C ₄ NS-C ₄ N ₂ 2H,6H-Pyrimido[2,1-b][1,3]thiazine 8, 583f, 591		4H-3,1-Benzothiazine 8, 567-605	

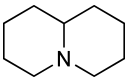
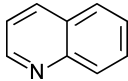
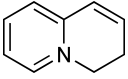
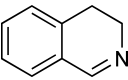
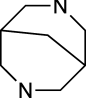
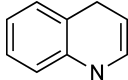
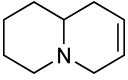
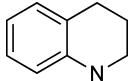
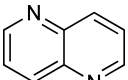
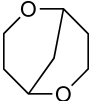
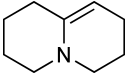
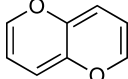
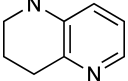
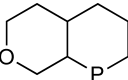
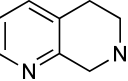
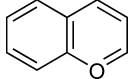
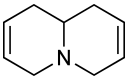
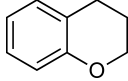
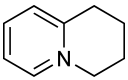
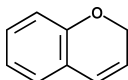
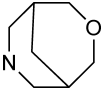
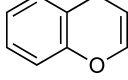
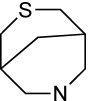
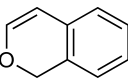
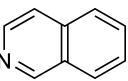
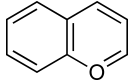
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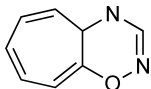
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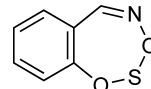
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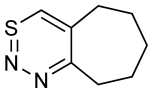
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5,7-Dioxa-6-thia-8-aza-
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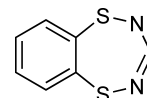
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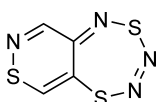
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6H-5,9-Dithia-6,8-diaza-
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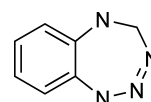
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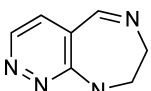
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8,9-Dihydro-5H-5,6,7,9-tetraaza-
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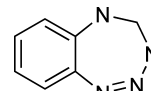


$C_4N_2-C_5NO$

7,8-Dihydro-9-oxa-1,2,6-triaza-
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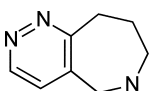


8,9-Dihydro-7H-5,6,7,9-tetraaza-
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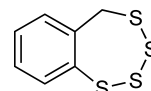
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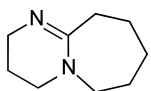


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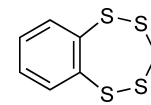
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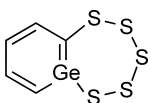


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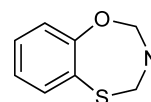
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5,6,7,8,9-Pentathia-4a-germa-
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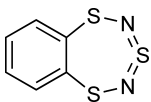
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7,8-Dihydro-6H-5-oxa-9-thia-7-aza-
benzocycloheptene
13, 489–527



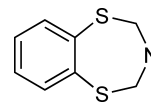
$C_6-C_2N_2S_3$

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



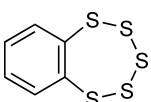
$C_6-C_4NS_2$

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



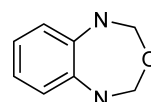
$C_6-C_2S_5$

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

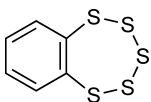


$C_6-C_4N_2O$

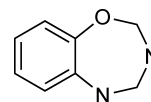
1,2,4,5-Tetrahydro-benzo[1,3,6]
oxadiazepine
13, 489–527



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



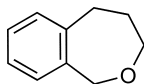
2,3,4,5-Tetrahydro-benzo[1,3,5]
oxadiazepine
13, 489–527



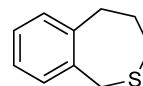
5,7,8,9-Tetrahydro-6-oxa-5,8-diaza-benzocycloheptene 13, 422f		C ₆ -C ₅ NS 1,2-Benzothiazepine 13, 237–243	
C ₆ -C ₄ N ₂ S 1,2,4,5-Tetrahydro-benzo[d][1,2,7]thiadiazepine 13, 391		1,4-Benzothiazepine 13, 279	
1,2,4,5-Tetrahydro-benzo[d][1,3,6]thiadiazepine 13, 489–527		2,3-Dihydro-benzo[b][1,4]thiazepine 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	
3H-Benzo[e][1,4]diazepine 13, 183–235		Octahydro-benzo[b][1,4]dioxepine 13, 377	
2,3-Dihydro-1H-benzo[e][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[e][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		C ₆ -C ₆ O 1,3-Dihydro-benzo[c]oxepine 13, 45–95	
4,5-Dihydro-1H-benzo[d][1,2]dioxepine 13, 308–309		5,6-Dihydro-7-oxabenzocycloheptene 13, 45–95	
2,3-Dihydro-5H-benzo[e][1,4]dioxepine 13, 371		5,6,8,9-Tetrahydro-7-oxabenzocycloheptene 13, 45–95	
		2,3,4,5-Tetrahydro-benzo[b]oxepine 13, 54f, 55	

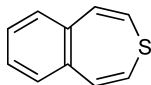
1,3,4,5-Tetrahydro-benzo[c]oxepine
13, 45-95



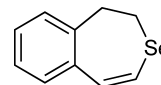
1,3,4,5-Tetrahydro-benzo[c]thiepine
13, 97-141



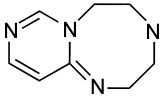
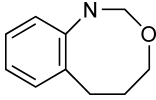

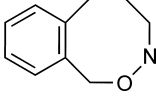
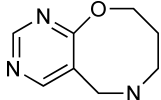
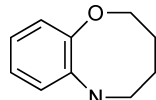
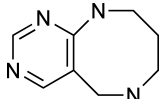
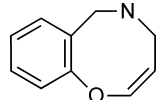
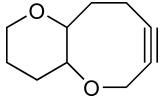
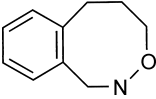
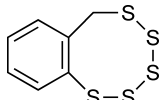
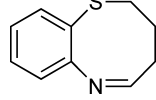
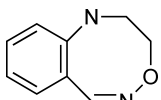
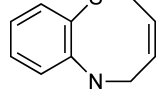
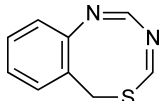
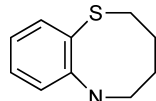
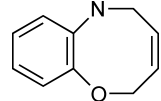
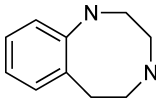
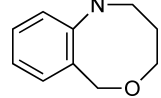
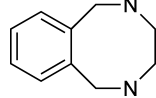
C₆-C₆S
3-Benzothiepine
13, 97-141



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



6,8

<p>$C_4N_2-C_5N_3$ 7,8,9,10-Tetrahydro-6H-2,5,8,10a-tetraaza-benzocyclooctene 14, 492</p>		<p>1,4,5,6-Tetrahydro-2H-benzo[d]-[1,3]oxazocine 14, 191</p>	
<p>$C_4N_2-C_6NO$ 2-Oxa-7,9-diaza-bicyclo[4.2.2]decane 14, 191</p>		<p>3,4,5,6-Tetrahydro-1H-benzo[f][1,2]-oxazocine 14, 121</p>	
<p>6,7,8,9-Tetrahydro-5H-10-oxa-1,3,6-triaza-benzocyclooctene 14, 393f</p>		<p>3,4,5,6-Tetrahydro-2H-benzo[b]-[1,4]oxazocine 14, 274</p>	
<p>$C_4N_2-C_6N_2$ 5,6,7,8,9,10-Hexahydro-1,3,6,10-tetraaza-benzocyclooctene 14, 339f</p>		<p>3,4,5,6-Tetrahydro-2H-benzo[b][1,5]-oxazocine 14, 395f, 396f</p>	
<p>C_5O-C_7O Pyrano[3,2-b]oxooctyne 14, 72</p>		<p>5,8,9,10-Tetrahydro-6H-7-oxa-6-aza-benzocyclooctene 14, 121</p>	
<p>$C_6-C_3S_5$ 10H-5,6,7,8,9-Pentathia-benzocyclooctene 9, 613f</p>		<p>C_6-C_6NS 3,4-Dihydro-2H-benzo[b][1,4]-thiazocine 8, 666</p>	
<p>$C_6-C_5N_2O$ 6,7-Dihydro-5H-8-oxa-5,9-diaza-benzocyclooctene 14, 494</p>		<p>5,6-Dihydro-2H-benzo[b][1,4]-thiazocine 14, 283</p>	
<p>$C_6-C_5N_2S$ 10H-9-Thia-5,7-diaza-benzocyclooctene 14, 495</p>		<p>3,4,5,6-Tetrahydro-2H-benzo[b]-[1,4]thiazocine 14, 283</p>	
<p>C_6-C_6NO 5,6-Dihydro-2H-benzo[b][1,4]-oxazocine 14, 278</p>		<p>$C_6-C_6N_2$ 1,2,3,4,5,6-Hexahydro-benzo[c]-[1,4]diazocine 14, 260</p>	
<p>1,3,4,6-Tetrahydro-2H-benzo[c]-[1,5]oxazocine 14, 394f, 403, 404f, 398</p>		<p>1,2,3,4,5,6-Hexahydro-benzo[f]-[1,4]diazocine 14, 260</p>	

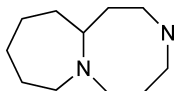
1,2,5,6,6a,7,8,9,10,10a-Decahydro-benzo[f][1,4]diazocine 14 , 270 <i>f</i>		3,4,5,6-Tetrahydro-2H-benzo[b]oxocine 14 , 69 <i>f</i> , 76	
C ₆ -C ₇ N 1-Benzazocine 14 , 30		C ₆ -C ₇ S 3,4,5,6-Tetrahydro-2H-benzo[b]thiocine 14 , 94	
C ₆ -C ₇ O 3,6-Dihydro-2H-benzo[b]oxocine 14 , 49–88		C ₆ -C ₇ Si 5,8,9,10-Tetrahydro-5-sila-benzocyclooctene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

7,8

C₆N-C₆N₂

Dodecahydro-5a,9-diaza-cycloheptacyclooctene

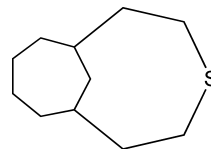
14, 332*f*



C₇-C₇S

4-Thia-bicyclo[5.4.1]dodecane

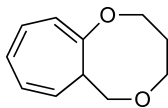
14, 89-98



C₇-C₆O₂

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

14, 439*f*

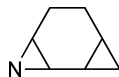


3,3,6

C₂N-C₃-C₆

3-Aza-tricyclo[5.1.0.0^{2,4}]octane

1, 28; 1, 109

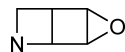


3,4,4

C₂O-C₃N-C₄

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

2, 267–268

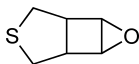


3,4,5

C₂O-C₄-C₄S

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

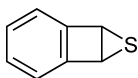
1, 240



3,4,6

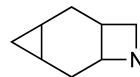
C₂S-C₄-C₆

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



C₃-C₃N-C₆

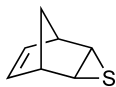
8-Aza-tricyclo[5.2.0.03,5]nonane
2, 258, 299



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*



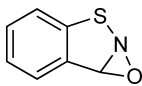
3-Thia-tricyclo[3.2.1.0^{2,4}]octa-1,4,6-triene
6, 455*f*



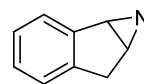
3,5,6

CNO-C₃NS-C₆

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

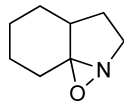


1,1a,6,6a-Tetrahydro-1-aza-
cyclopropa[a]indene
1, 112, 113, 113–114



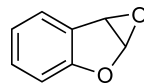
CNO-C₄N-C₆

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



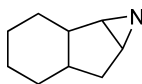
C₂O-C₄O-C₆

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



C₂N-C₅-C₆

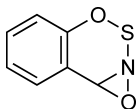
Decahydro-1-aza-cyclopropa[a]
indene
1, 114–115



3,6,6

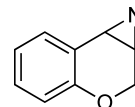
CNO-C₃NOS-C₆

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



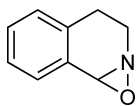
C₂N-C₅S-C₆

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



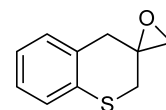
CNO-C₅N-C₆

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



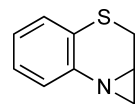
C₂O-C₅S-C₆

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



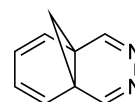
C₂N-C₄NS-C₆

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

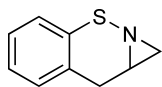


C₃-C₄N₂-C₆

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



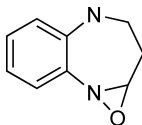
7,7a-Dihydro-1H-2-thia-1a-aza-
cyclopropa[b]naphthalene
1, 61f; 1, 121



3,6,7

CNO-C₅N₂-C₆

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

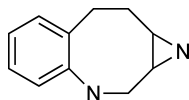


3,6,8

C₂N-C₆-C₇N

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

158f, 158f

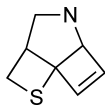


4,4,5

C₃S-C₄-C₄N

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

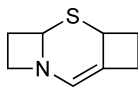
2, 442–443



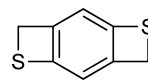
4,4,6

C₃N-C₄-C₄NS

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

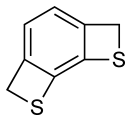


4,9-Dithia-tricyclo[6.2.0.03,6]
deca-1(8),2,6-triene
7, 892



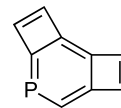
C₃S-C₃S-C₆

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

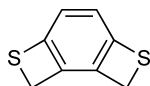


C₄-C₄-C₅P

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

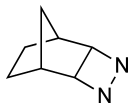


4,9-Dithia-tricyclo[6.2.0.02,5]
deca-1(8),2(5),6-triene
2, 439-441

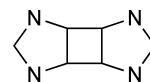


4,5,5

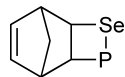
C₂N₂-C₅-C₅
3,4-Diaza-tricyclo[4.2.1.02,5]nonane
2, 650, 651



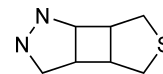
C₄-C₃N₂-C₃N₂
Decahydro-cyclobuta[1,2-d;3,4-d']
diimidazole
10, 1161



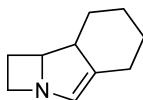
C₂PSe-C₅-C₅
3-Selena-4-phospha-tricyclo
[4.2.1.02,5]non-7-ene
2, 867



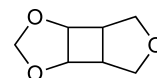
C₄-C₃N₂-C₄S
Octahydro-5-thia-1,2-diaza-
cyclobutadicyclopentene
10, 1160–1161



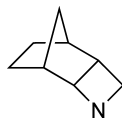
C₃N-C₄N-C₆
1,2,5,6,7,8,8a,8b-Octahydro-
azeto[2,1-a]isoindole
2, 242



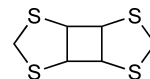
C₄-C₃O₂-C₄O
Hexahydro-1,3,5-trioxa-
cyclobutadicyclopentene
10, 1161



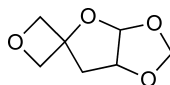
C₃N-C₅-C₅
3-Aza-tricyclo[4.2.1.02,5]nonane
2, 120; 2, 259



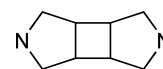
C₄-C₃S₂-C₃S₂
Tetrahydro-1,3,4,6-tetrathia-
cyclobutadicyclopentene
10, 1161



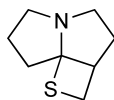
C₃O-C₃O₂-C₄O
Spiro[furo[2,3-d]-1,3dioxole-
5(3aH),3'-oxetane]
2, 376–377



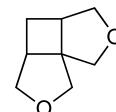
C₄-C₄N-C₄N
Decahydro-cyclobuta
[1,2-c;3,4-c']dipyrrole
10, 1159



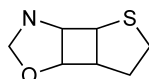
C₃S-C₄N-C₄N
Hexahydro-1-thia-4a-aza-
cyclobuta[c]pentalene
2, 437, 442–443



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



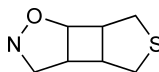
C₄-C₃NO-C₄S
Octahydro-1-oxa-4-thia-3-aza-
cyclobutadicyclopentene
10, 1160



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



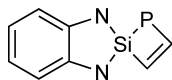
Octahydro-1-oxa-5-thia-2-aza-
cyclobutadicyclopentene
10, 1161



4,5,6

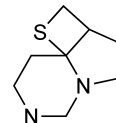
$C_2PSi-C_2N_2Si-C_6$

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



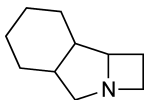
$C_3S-C_4N-C_4N_2$

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



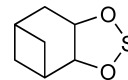
$C_3N-C_4N-C_6$

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



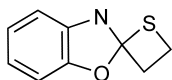
$C_4-C_2O_2S-C_6$

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



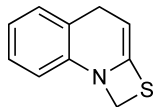
$C_3S-C_3NO-C_6$

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

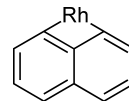


4,6,6

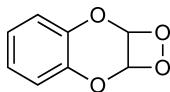
C₂NS-C₅N-C₆
4H-2-Thia-8b-aza-cyclobuta[a]
naphthalene
2, 762, 763, 769–770, 770



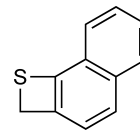
C₃Rh-C₆-C₆
1,1-Dimethyl-1H-naphtho
[1,8-bc]rhodinete
2, 555–621



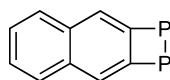
C₂O₂-C₄O₂-C₆
2a,8a-Dihydro-1,2,3,8-tetraoxa-
cyclobuta[b]naphthalene
2, 778



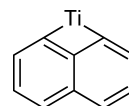
C₃S-C₆-C₆
2H-1-Thia-cyclobuta[a]naphthalene
2, 439–441



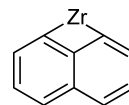
C₂P₂-C₆-C₆
1,2-Dihydro-1,2-diphospha-
cyclobuta[b]naphthalene
2, 891



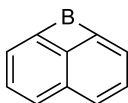
C₃Ti-C₆-C₆
1,1-Dimethyl-1H-naphtho
[1,8-bc]titanete
2, 555–621



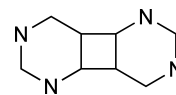
C₃Zr-C₆-C₆
1,1-Dimethyl-1H-naphtho
[1,8-bc]zirconete
2, 555–621



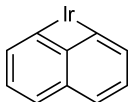
C₃B-C₆-C₆
1H-naphtho[1,8-bc]borete
2, 555–621



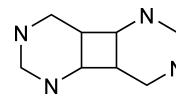
C₄-C₄N₂-C₄N₂
Dodecahydro-1,3,5,7-tetraaza-
biphenylene
8, 176f



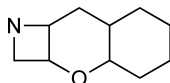
C₃Ir-C₆-C₆
1,1-Dimethyl-1H-naphtho[1,8-bc]
iridinete
2, 555–621



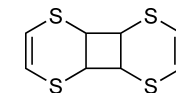
Dodecahydro-1,3,5,7-tetraaza-
biphenylene
10, 1246



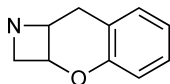
C₃N-C₅O-C₆
Decahydro-3-oxa-1-aza-
cyclobuta[b]naphthalene
2, 262



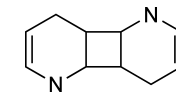
C₄-C₄S₂-C₄S₂
4a,4b,8a,8b-Tetrahydro-1,4,5,8-
tetrathia-biphenylene
8, 865



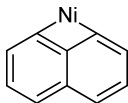
2,2a,8,8a-Tetrahydro-1H-3-oxa-
1-aza-cyclobuta[b]naphthalene
2, 134



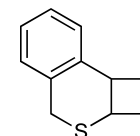
C₄-C₅N-C₅N
1,4,4a,4b,5,8,8a,8b-Octahydro-
cyclobuta[1,2-b;3,4-b']dipyridine
10, 1245



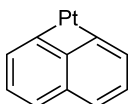
C₃Ni-C₆-C₆
1,1-Dimethyl-1H-naphtho[1,8-bc]
nikelnete
2, 555–621



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



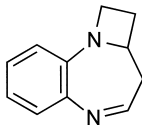
C₃Pt-C₆-C₆
1,1-Dimethyl-1H-naphtho
[1,8-bc]platinete
2, 555–621



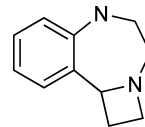
4,6,7

C₃N-C₆-C₅N₂

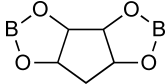
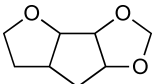
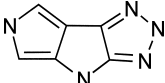
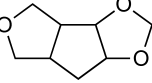
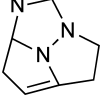
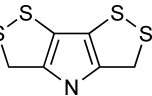
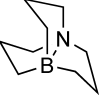
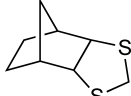
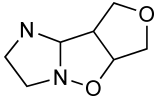
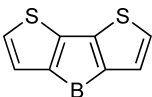
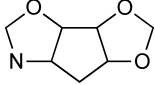
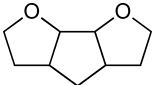
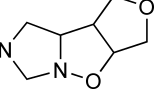
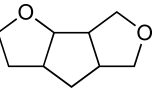
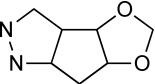
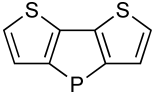
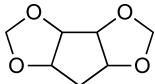
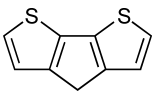
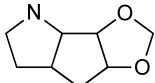
1,2,2a,3-Tetrahydro-5,9b-diaza-
benzo[a]cyclobuta[c]cycloheptene
2, 123–124



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

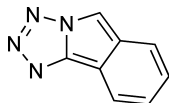


5,5,5

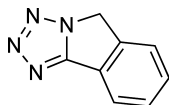
<p>$C_2BO_2-C_2BO_2-C_5$ Tetrahydro-1,3,4,6-tetraoxa-2,5-dibora-cyclopenta[a]pentalene 10, 1166</p>		<p>$C_3O_2-C_4O-C_5$ Hexahydro-furo[2',3':3,4]cyclopenta[1,2-d][1,3]dioxole 10, 1164</p>	
<p>$C_2N_2S-C_4N-C_4S$ 7H-2,5-Dithia-1,3,7-triazacyclopenta[a]pentalene 10, 151–152</p>		<p>Hexahydro-furo[3',4':3,4]cyclopenta[1,2-d][1,3]dioxole 10, 1164–1165</p>	
<p>$C_2N_3-C_3N_2-C_4N$ 1,2,3,4,6,6a-Hexahydro-1,2a,6b-triaza-cyclopenta[cd]pentalene 11, 123–124</p>		<p>$C_3S_2-C_3S_2-C_4N$ 6,7-Dihydro-1H-2,3,4,5-tetrathia-7-aza-cyclopenta[a]pentalene 4, 1029f</p>	
<p>$C_3BN-C_3BN-C_3BN$ 1-Aza-5-bora-tricyclo[3.3.3.0^{1,5}]undecane 12, 573–633</p>		<p>$C_3S_2-C_5-C_5$ 3,5-Dithia-tricyclo[5.2.1.0^{2,6}]decane 4, 1025f</p>	
<p>$C_3NO-C_3N_2-C_4O$ Octahydro-2,7-dioxa-4,6a-diazacyclopenta[a]pentalene 11, 169–170</p>		<p>$C_4B-C_4S-C_4S$ 7H-3,4-Dithia-7-bora-cyclopenta[a]pentalene 3, 1225–1241</p>	
<p>$C_3NO-C_3O_2-C_5$ Hexahydro-1,3,4-trioxa-6-azacyclopenta[a]pentalene 10, 1165, 1165</p>		<p>$C_4O-C_4O-C_5$ Octahydro-cyclopenta[2,1-b;3,4-b']difuran 10, 1162</p>	
<p>$C_3N_2-C_3NO-C_4O$ Octahydro-2,7-dioxa-5,6a-diazacyclopenta[a]pentalene 11, 169–170</p>		<p>Octahydro-2,4-dioxa-cyclopenta[a]pentalene 10, 1162</p>	
<p>$C_3N_2-C_3O_2-C_5$ Octahydro-4,6-dioxa-1,2-diazacyclopenta[a]pentalene 10, 1165</p>		<p>$C_4P-C_4S-C_4S$ 4H-Phospholo[3,2-b;4,5-b']dithiophene 3, 1031</p>	
<p>$C_3O_2-C_3O_2-C_5$ Tetrahydro-cyclopenta[1,2-d;3,4-d']bis[1,3]dioxole 10, 1165–1166</p>		<p>$C_4S-C_4S-C_5$ 4H-Cyclopenta[2,1-b;3,4-b']dithiophene 10, 1162–1163</p>	
<p>$C_3O_2-C_4N-C_5$ Octahydro-1,3-dioxa-4-azacyclopenta[a]pentalene 10, 1163, 1163</p>			

5,5,6

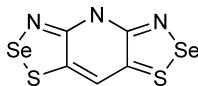
CN₄-C₄N-C₆
1H-Tetrazolo[5,1-a]isoindole
11, 307–323



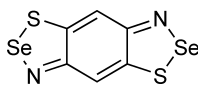
5H-Tetrazolo[5,1-a]isoindole
11, 307–323



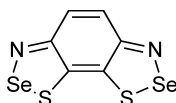
[1,2,3]Thiaselenazolo
[4,5-b:5',4'-c]pyridine
6, 530f



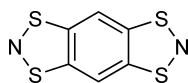
C₂NSSe- C₂NSSe-C₆
Benzo[1,2-d:4,5-d']
bis(1,2,3-thiaselenazole)
6, 574f; 6, 574f



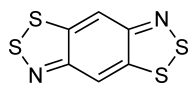
Benzo[2.1-c:3.4-c']
bis(1,2,3-thiaselenazole)
6, 530; 6, 574f



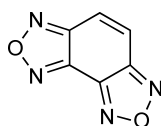
C₂N₂S-C₂NS₂-C₆
Benzo[1,2-d:4,5-d']
bis[1,3,2]dithiazole
6, 44



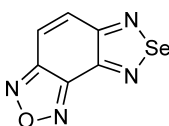
1,2,5,6-Tetrathia-3,7-diaza-
s-indacene
6, 19



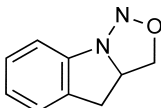
C₂N₂O-C₂N₂O-C₆
Benzo[1,2-c:3,4-c']bis[1,2,5]
oxadiazole
5, 360f, 360f



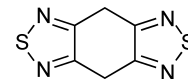
C₂N₂O-C₂N₂Se-C₆
2-Oxa-7-selena-1,3,6,8-
tetraaza-as-indacene
6, 560f



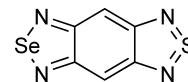
C₂N₂O-C₄N-C₆
4-Benzylsydno[3,4-a]indole
5, 214



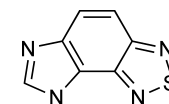
C₂N₂S-C₂N₂S-C₆
4H,8H-Benzo[1,2-c:4,5-c']
bis[1,2,5]thiadiazole
5, 536–537



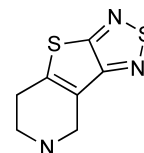
C₂N₂S-C₂N₂Se-C₆
[1,2,5]selenadiazolo[4,5-c]-2,1,3-
benzothiazole
6, 568f



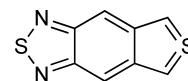
C₂N₂S-C₃N₂-C₆
8H-Imidazo[4',5':3,4]benzo[1,2-c]
[1,2,5]thiadiazole
10, 1187



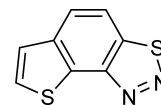
C₂N₂S-C₄S-C₅N
4,5,6,7-Tetrahydro-2,8-dithia-
1,3,5-triaza-cyclopenta[a]indene
10, 146



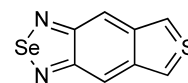
C₂N₂S-C₄S-C₆
Thieno[3,4-f]-2,1,3-
benzothiadiazole-2
10, 1187–1188



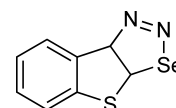
C₂N₂S-C₄S-C₆
3,8-Dithia-1,2-diaza-as-indacene
10, 1187



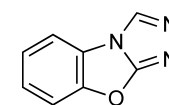
C₂N₂Se-C₄S-C₆
Seleno[3,4-f]-2,1,3-
benzothiadiazole-2
10, 1187–1188



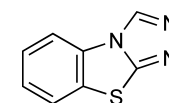
8-Thia-1-selena-2,3-diaza-
cyclopenta[a]indene
6, 562f



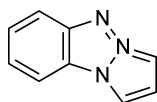
C₂N₃-C₃NO-C₆
Benzo[4,5]oxazolo[2,3-c]
[1,2,4]triazole
11, 250–251



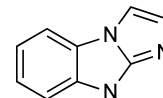
C₂N₃-C₃NS-C₆
Benzo[4,5]thiazolo[2,3-c]
[1,2,4]triazole
11, 250–251



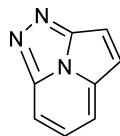
C₂N₃-C₃N₂-C₆
5H-Pyrazolo[1,2-a]
benzotriazol-4-ium
4, 972



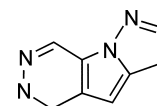
9H-Imidazo[1,2-a]benzimidazole
11, 133–197



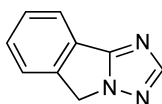
C₂N₃-C₄N-C₅N
1,2,7b-Triaza-cyclopenta[cd]
indene
12, 829



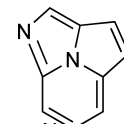
C₃N₂-C₄N-C₄N₂
6,7-Dihydro-1H-3,3a,5,6-tetraaza-
cyclopenta[a]indene
12, 805–806



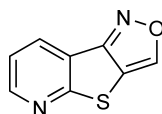
C₂N₃-C₄N-C₆
5H-[1,2,4]Triazolo[5,1-a]
isoindole
11, 117



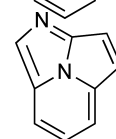
C₃N₂-C₄N-C₅N
1,7b-Diaza-cyclopenta[cd]indene
12, 829



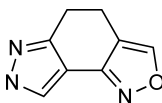
C₃NO-C₄S-C₅N
2-Oxa-8-thia-3,7-diaza-
cyclopenta[a]indene
12, 783f



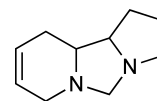
2,7b-Diaza-cyclopenta[cd]indene
12, 829



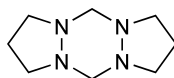
C₃N₂-C₃NO-C₆
5,7-Dihydro-4H-pyrazolo
[4',3':3,4]benzo[2,1-c]isoxazole
10, 1185



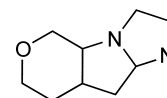
2,3,3a,3b,4,7-Hexahydro-1H-7a,8a-
diazia-cyclopenta[a]indene
12, 822–823



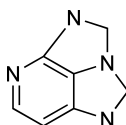
C₃N₂-C₃N₂-C₂N₄
Tetrahydro-dipyrazolo
[1,2-a;1',2'-d][1,2,4,5]tetrazine
9, 661, 662



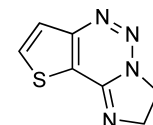
C₃N₂-C₄N-C₅O
Decahydro-5-oxa-1,3a-diaza-
cyclopenta[a]indene
12, 804



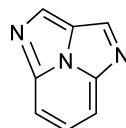
C₃N₂-C₃N₂-C₅N
1,2,3,4-Tetrahydro-1,2a,4,5-
tetraaza-cyclopenta[cd]indene
12, 828–829



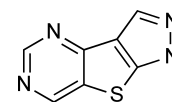
C₃N₂-C₄S-C₃N₃
2,3-Dihydro-8-thia-1,3a,4,5-
tetraaza-as-indacene
10, 502–503



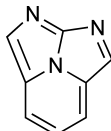
1,4,7b-Triaza-cyclopenta[cd]indene
12, 829



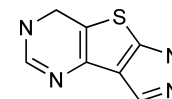
C₃N₂-C₄S-C₄N₂
1H-8-Thia-1,2,4,6-tetraaza-
cyclopenta[a]indene
12, 781f



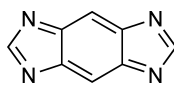
2,3,7b-Triaza-cyclopenta[cd]indene
12, 829



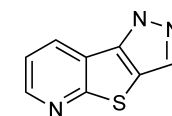
6,7-Dihydro-1H-8-thia-1,2,4,6-
tetraaza-cyclopenta[a]indene
12, 783–784



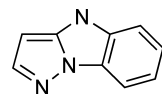
C₃N₂-C₃N₂-C₆
Benzo[1,2-d:4,5-d']diimidazole
10, 1135–1199



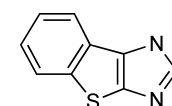
C₃N₂-C₄S-C₅N
3H-8-Thia-2,3,7-triaza-
cyclopenta[a]indene
12, 783f

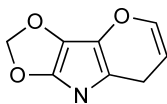
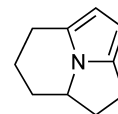
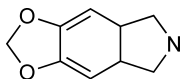
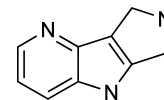
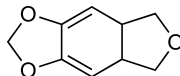
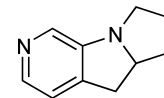
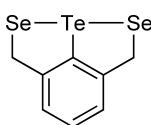
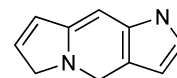
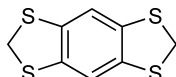
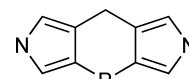
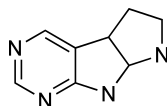
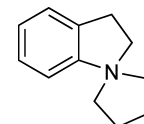
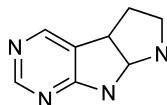
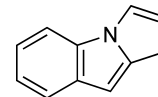
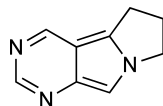
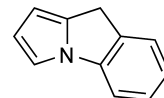
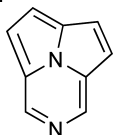
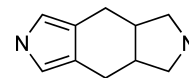
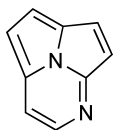
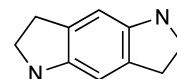
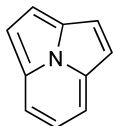
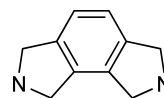


8H-3,3a,8-Triaza-cyclopenta[a]
indene
11, 199–305

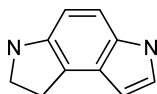


C₃N₂-C₄S-C₆
3H-8-Thia-1,3-diaza-
cyclopenta[a]indene
10, 77f

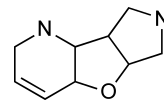


C₃O₂-C₄N-C₅O7,8-Dihydro-1,3,4-trioxa-8-aza-cyclopenta[a]indene
3, 3681,2,5,6,7,7a-Hexahydro-pyrrolo[2,1,5-cd]indolizine
11, 17C₃O₂-C₄N-C₆5,6,7,7a-Tetrahydro-4aH-[1,3]dioxolo[4,5-f]isoindole
10, 11811,2,3,8-Tetrahydro-2,4,8-triaza-cyclopenta[a]indene
12, 775C₃O₂-C₄O-C₆4a,5,7,7a-Tetrahydro-furo [3',4':4,5]benzo[1,2-d][1,3]dioxole
10, 11812,3,8,8a-Tetrahydro-1H-3a,5-diaza-cyclopenta[a]indene
12, 797C₃SeTe-C₃SeTe-C₆2a,4-Dihydro-1H-2,3-diselena-2aλ⁴-tellura-cyclopenta[cd]indene
4, 1092-10934,6-Dihydro-1H-pyrrolo[3,2-f]indolizine
3, 63C₃S₂-C₃S₂-C₆Benzo[1,2-d;4,5-d']bis[1,3]dithiole
10, 1185C₄N-C₄N-C₅P2,4,6,8-Tetrahydro-2,6-diaza-4-phospha-s-indacene
7, 1019, 1020-1021C₄N-C₄N-C₄N₂1,2,3,3a,8,8a-Hexahydro-1,5,7,8-tetraaza-cyclopenta[a]indene
12, 776fC₄N-C₄N-C₆Spiro[1H-indole-1,1'-pyrrolidinium], 2,3-dihydro-, salt
12, 1052f1,2,3,3a,8,8a-Hexahydro-1,5,7,8-tetraaza-cyclopenta[a]indene
12, 777f1H-Pyrrolo[1,2-a]indole
6, 161f2,3-Dihydro-1H-5,7,8a-triaza-cyclopenta[a]indene
12, 800f8H-3a-Aza-cyclopenta[a]indene
11, 216,7b-Diaza-cyclopenta[cd]indene
12, 8291,2,3,3a,4,6,8,8a-Octahydro-pyrrolo[3,4-f]isoindole
3, 2911-Methyl-pyrrolo[1,2-c]pyrimidine
12, 8291,2,3,5,6,7-Hexahydro-pyrrolo[2,3-f]indole
10, 1174C₄N-C₄N-C₅NPyrrolo[2,1,5-cd]indolizine
12, 8291,2,3,6,7,8-Hexahydro-2,7-diaza-as-indacene
10, 1173

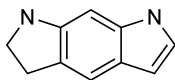
1,2,3,6-Tetrahydro-3,6-diaza-
as-indacene
10, 1167–1168



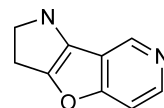
C₄N-C₄O-C₅N
3H-8-Oxa-3,5-diaza-
cyclopenta[a]indene
12, 780f



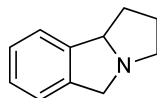
1,2,3,7-Tetrahydro-
pyrrolo[3,2-f]indole
10, 1166



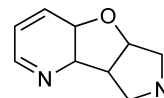
2,3-Dihydro-1H-8-oxa-3,5-diaza-
cyclopenta[a]indene
12, 779f



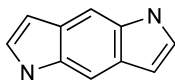
2,3,5,9b-Tetrahydro-1H-
pyrrolo[2,1-a]isoindole
12, 793



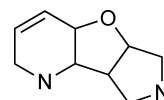
2,3,3a,3b,7a,8a-Hexahydro-1H-
8-oxa-2,4-diaza-cyclopenta[a]indene
12, 778f



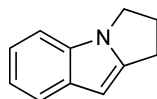
1,5-Dihydro-pyrrolo[2,3-f]indole
10, 1174



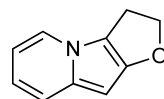
2,3,3a,3b,4,5,7a,8a-Octahydro-1H-
8-oxa-2,4-diaza-cyclopenta[a]indene
12, 847f



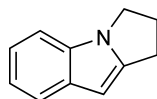
2,3-Dihydro-1H-3a-aza-
cyclopenta[a]indene
1, 153, 155–156



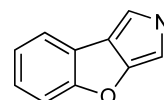
2,3-Dihydro-1-oxa-3b-aza-
cyclopenta[a]indene
12, 813



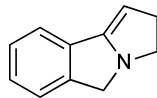
2,3-Dihydro-1H-3a-aza-
cyclopenta[a]indene
1, 603–604; 11, 1–40



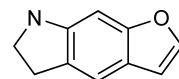
C₄N-C₄O-C₆
2H-8-Oxa-2-aza-cyclopenta[a]
indene
10, 16–17



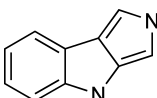
2,5-Dihydro-3H-pyrrolo[2,1-a]
isoindole
12, 794f



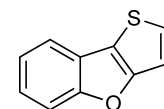
6,7-Dihydro-5H-1-oxa-7-
aza-s-indacene
10, 1166–1167



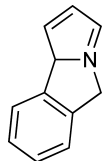
2,8-Dihydro-2,8-diaza-
cyclopenta[a]indene
10, 18, 18



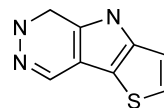
8-Oxa-3-thia-cyclopenta[a]indene
10, 11; 11, 15



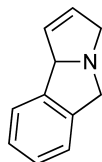
5,9b-Dihydro-pyrrolo[2,1-a]isoindole
11, 15



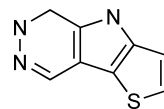
C₄N-C₄S-C₄N₂
7,8-Dihydro-6H-3-thia-5,6,8-
triazacyclopenta[a]indene
12, 782f



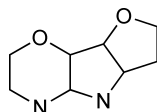
5,9b-Dihydro-3H-pyrrolo[2,1-a]isoindole
11, 17



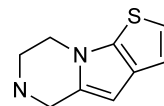
7,8-Dihydro-6H-3-thia-5,6,8-
triazacyclopenta[a]indene
12, 784

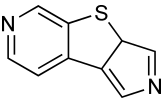
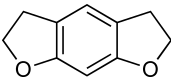
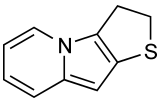
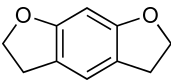
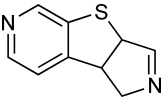
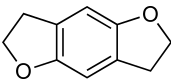
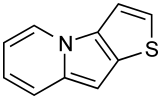
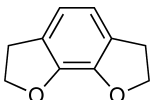
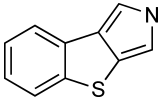
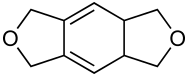
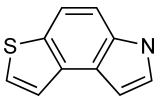
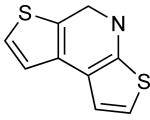
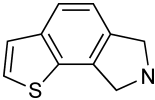
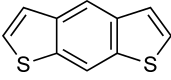
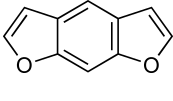
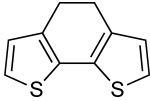
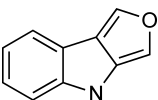
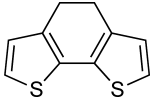
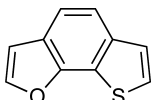
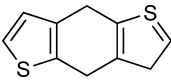
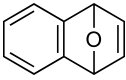
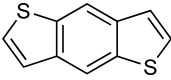
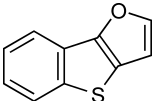
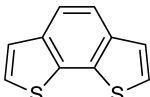


C₄N-C₄O-C₄NO
Decahydro-3,4-dioxo-7,8-diaza-
cyclopenta[a]indene
12, 784

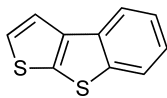


4,5,6,7-Tetrahydro-3-thia-3b,6-
diazacyclopenta[a]indene
12, 821

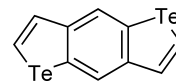


C ₄ N-C ₄ S-C ₅ N 8aH-8-Thia-2,6-diaza- cyclopenta[a]indene 12, 781f, 782f		C ₄ O-C ₄ O-C ₆ 2,3,5,6-Tetrahydro-benzo [1,2-b;5,4-b']difuran 9, 685	
2,3-Dihydro-1-thia-3b-aza- cyclopenta[a]indene 12, 816-817		2,3,5,6-Tetrahydro-benzo [1,2-b;5,4-b']difuran 10, 1167	
3a,8a-Dihydro-3H-8-thia-2,6- diaza-cyclopenta[a]indene 12, 781f, 782f		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	
C ₄ N-C ₄ S-C ₆ 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		C ₄ S-C ₄ S-C ₅ N 4,5-Dihydro-3,6-dithia- 4-aza-as-indacene 3, 776	
7,8-Dihydro-6H-1-thia- 7-aza-as-indacene 10, 1173		C ₄ S-C ₄ S-C ₆ Benzo[1,2-b:5,4-b0]dithiophene 9, 938f; 3, 865f	
C ₄ O-C ₄ O-C ₆ Benzo[1,2-b;5,4-b']difuran 10, 1174		4,5-Dihydro-1,8-dithia-as-indacene 3, 865f	
C ₄ O-C ₄ S-C ₆ 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-1λ ⁴ ,5- dithia-s-indacene 10, 1176	
C ₄ O-C ₄ O-C ₆ 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, 855f	
C ₄ O-C ₄ S-C ₆ [1]Benzothieno[3,2-b]furan 10, 11, 15		1,8-Dithia-as-indacene 10, 1169	

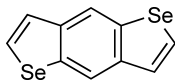
1,8-Dithia-cyclopenta[a]indene
12, 789f



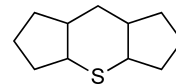
C₄Te-C₄Te-C₆
1,5-Ditelena-s-indacene
10, 1175



C₄Se-C₄Se-C₆
1,5-Diselena-s-indacene
10, 1175



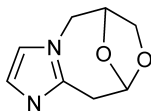
C₅-C₅-C₅S
Decahydro-4-thia-s-indacene
7, 783f



5,5,7

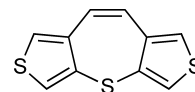
C₃N₂-C₃O₂-C₅NO

10,12-Dioxa-3,6-diaza-tricyclo
[7.2.1.03,7]dodeca-3(7),4-diene
14, 386



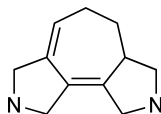
C₄S-C₄S-C₆S

2,4,6-Trithia-cyclopenta[f]
azulene
13, 126

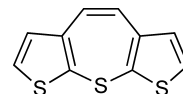


C₄N-C₄N-C₇

2,3,3a,4,5,7,8,9-Octahydro-1H-
2,8-diaza-cyclopenta[c]azulene
10, 1190

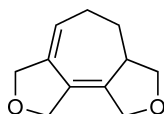


3,4,5-Trithia-cyclopenta[f]azulene
13, 126



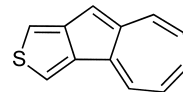
C₄O-C₄O-C₇

1,3a,4,5,7,9-Hexahydro-3H-2,8-
dioxo-cyclopenta[c]azulene
10, 1190



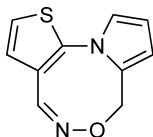
C₄S-C₅-C₇

2-Thia-cyclopenta[a]azulene
3, 850f

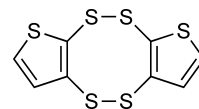


5,5,8

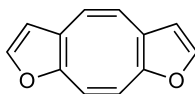
C₄N-C₄S-C₅N₂O
7H-6-Oxa-1-thia-5,10a-diaza-
dicyclopenta[a,c]cyclooctene
14, 494



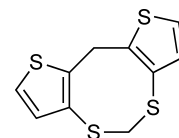
C₄S-C₄S-C₄S₄
1,4,5,8,9,10-Hexathia-
dicyclopenta[a,c]cyclooctene
4, 983*f*



C₄O-C₄O-C₈
Cycloocta[1,2-b:6,5-b0]difuran
10, 1188-1189

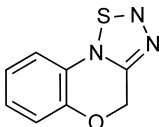


C₄S-C₄S-C₆S₂
10H-1,4,6,9-Tetrathia-
dicyclopenta[a,d]cyclooctene
14, 230

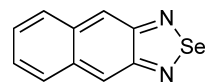


5,6,6

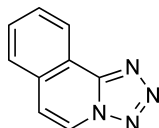
CN₃S-C₄NO-C₆
2,4-Dihydro-5-oxa-1-thia-2,3,9b-
triazacyclopenta[a]naphthalene
6, 493



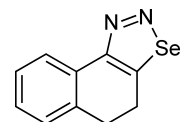
C₂N₂Se-C₆-C₆
Naphtho[2,3-*d*][1,2,5]-
selenadiazole
6, 568–569



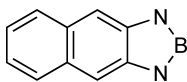
CN₄-C₅N-C₆
1,2,3,3a-Tetraaza-cyclopenta[a]
naphthalene
7, 87; 6, 344f; 6, 390



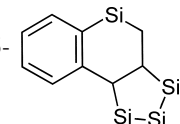
4,5-Dihydro-3-selena-1,2-
diazacyclopenta[a]naphthalene
6, 557–558; 6, 562f



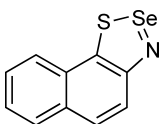
C₂BN₂-C₆-C₆
2,3-Dihydro-1H-1,3-diaza-2-
bora-cyclopenta[b]naphthalene
6, 644



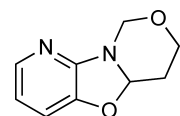
C₂Si₃-C₅Si-C₆
2,3,3a,4,5,9b-Hexahydro-1H-1,2,3,5-
tetrasila-cyclopenta[a]naphthalene
6, 662, 668



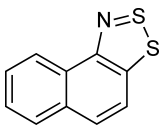
C₂NSSe-C₆-C₆
1-Thia-2λ₄-selena-3-aza-
cyclopenta[a]naphthalene
6, 573f



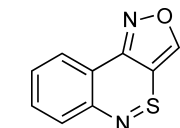
C₃NO-C₄NO-C₅N
1,9a-Dihydro-2H-3,9-dioxa-
4a,5-diaza-fluorene
12, 997



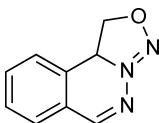
C₂NS₂-C₆-C₆
2λ⁺₃,3-Dithia-1-aza-
cyclopenta[a]naphthalene
6, 28



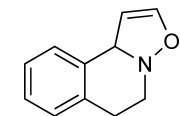
C₃NO-C₄NS-C₆
2-Oxa-4λ⁺-thia-1,5-diaza-
cyclopenta[a]naphthalene
8, 544



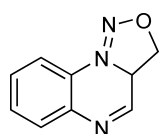
C₂N₂O-C₄N₂-C₆
1,9b-Dihydro-2-oxa-3,3a,4-
triazacyclopenta[a]naphthalene
5, 231–232



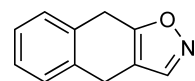
C₃NO-C₅N-C₆
6,10b-Dihydro-5H-isoxazolo-
[3,2-*a*]isoquinoline
4, 386, 387



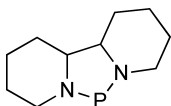
3,3a-Dihydro-2-oxa-1,5,9b-
triazacyclopenta[a]naphthalene
5, 214



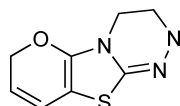
C₃NO-C₆-C₆
4,9-Dihydro-naphtho[2,3-*d*]-
isoxazole
5, 215f



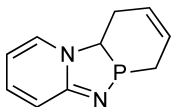
C₂N₂P-C₅N-C₅N
Decahydro-8a,9a-diaza-9-
phospha-fluorene
12, 992



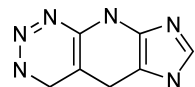
C₃NS-C₃N₃-C₅O
3,4-Dihydro-2H,6H-5-oxa-9-
thia-1,2,4a-triaza-fluorene
12, 996



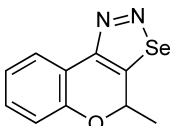
C₂N₂P-C₅N-C₅P
5,8-Dihydro-4bH-4a,9-diaza-
8a-phospha-fluorene
12, 996



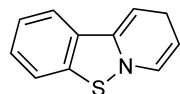
7,9-Dihydro-8H-4-oxa-1-
thia-3,5,6,7-tetraaza-
cyclopenta[b]naphthalene
10, 892

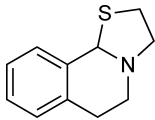
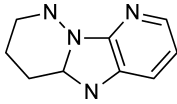
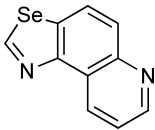
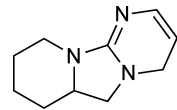
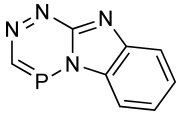
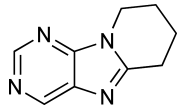
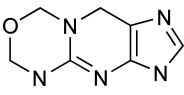
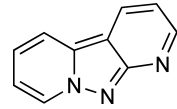
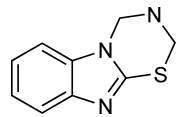
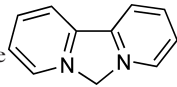
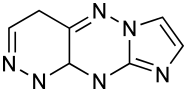
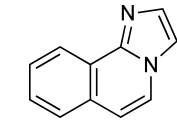
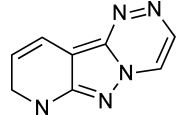
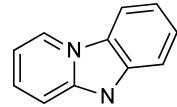
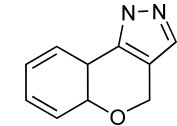
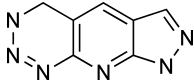
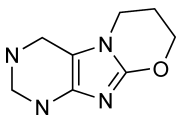
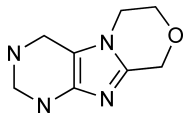
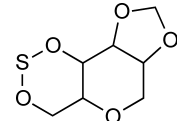


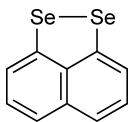
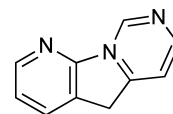
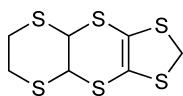
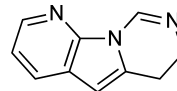
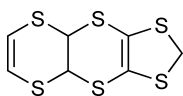
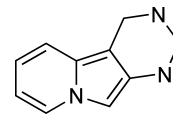
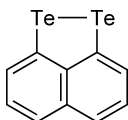
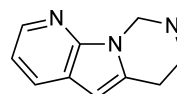
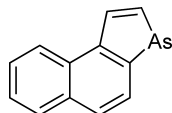
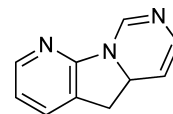
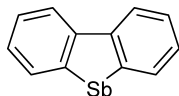
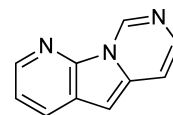
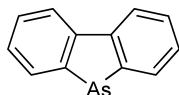
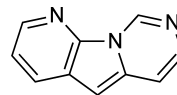
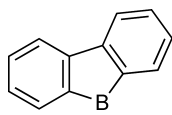
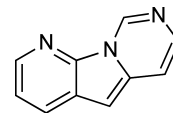
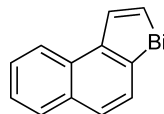
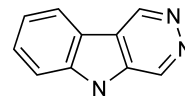
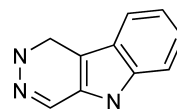
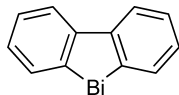
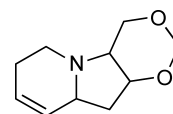
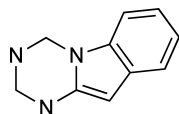
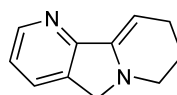
C₂N₂Se-C₅O-C₆
4H-5-Oxa-3-selena-1,2-diaza-
cyclopenta[a]naphthalene
6, 562f

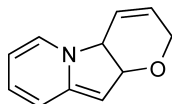
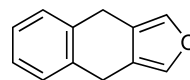
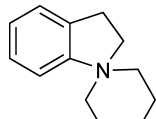
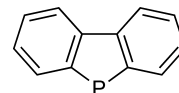
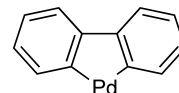
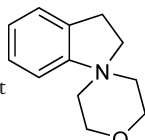
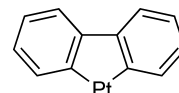
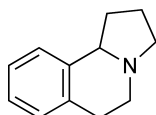
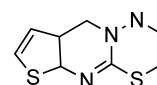
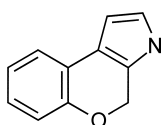
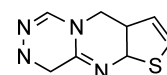
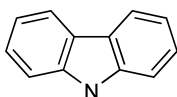
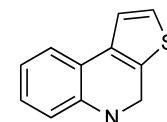
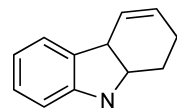
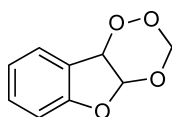
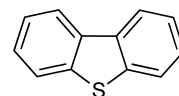
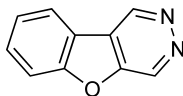
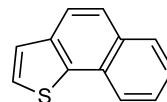
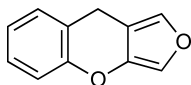
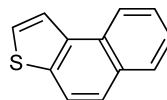
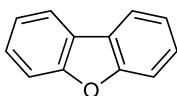
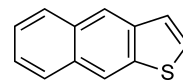
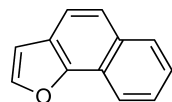
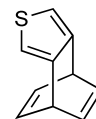


C₃NS-C₅N-C₆
6H-9-Thia-8a-aza-fluorene
4, 578

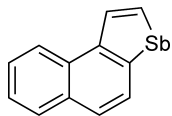


- 2,3,6,10b-Tetrahydro-5H-thiazolo[2,3-a]isoquinoline
4, 671*t*
- 
- C₃N₂-C₄N₂-C₅N
1,2,3,4,9,9a-Hexahydro-4,4a,5,9-tetraaza-fluorene
12, 992–993
- 
- C₃NSe-C₅N-C₆
3-Selena-1,6-diazacyclopenta[a]naphthalene
4, 791–821
- 
- 5,6,7,8,8a,9-Hexahydro-1H-4,4b,9a-triaza-fluorene
12, 991*f*
- 
- C₃N₂-C₂N₃P-C₆
1,2,4a,9-Tetraaza-4-phospha-fluorene
11, 895–908
- 
- 5,6,7,8-Tetrahydro-2,4,4b,9-tetraaza-fluorene
12, 997
- 
- C₃N₂-C₃N₂O-C₄N₂
3,5,6,9-Tetrahydro-7-oxa-1,3,4,5,8a-pentaaza-cyclopenta[b]naphthalene
9, 461–462
- 
- C₃N₂-C₅N-C₅N
Dipyrido[1,2-b;3',2'-d]pyrazole
12, 990
- 
- C₃N₂-C₃N₂S-C₆
3,4-Dihydro-2H-1-thia-3,4a,9-triaza-fluorene
9, 500
- 
- 6H-Dipyrido[1,2-c;2',1'-e]imidazole
12, 991
- 
- C₃N₂-C₃N₃-C₄N₂
5,8,8a,9-Tetrahydro-1,3a,4,7,8,9-hexaaza-cyclopenta[b]naphthalene
10, 1117
- 
- C₃N₂-C₅N-C₆
Imidazo[2,1-a]isoquinoline
4, 209
- 
- C₃N₂-C₃N₃-C₅N
1,2-Dihydro-1,5,6,8a,9-pentaaza-fluorene
12, 993
- 
- 5H-Benzo[4,5]imidazo[1,2-a]pyridine
12, 994
- 
- C₃N₂-C₅O-C₆
1,4,5a,9a-Tetrahydro-chromeno-[4,3-c]pyrazole
4, 25
- 
- C₃N₂-C₃N₃-C₅N
5,6-Dihydro-1H-1,2,6,7,8,9-hexaaza-cyclopenta[b]-naphthalene
10, 897
- 
- C₃OP-C₂N₃P-C₆
4,4a-Dihydro-1H-9-oxa-1,3,4-triaza-9a-phospha-fluorene
12, 537
- 
- C₃O₂-C₃O₂S-C₅O
Hexahydro-1,3,5,7,9-pentaoxa-8-thia-cyclopenta[a]naphthalene
10, 889
- 
- 

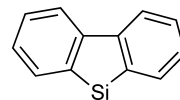
C₃Se₂-C₆-C₆1,2-Discelena-acenaphthylene
4, 1094, 1097-1098, 1098-1099, 1099C₄N-C₄N₂-C₅N9H-3,4a,5-Triaza-fluorene
12, 990-991C₃S₂-C₄S₂-C₄S₂4a,6,7,8a-Tetrahydro-1,3,4,5,8,9-hexathia-cyclopenta[b]-naphthalene
8, 8751,2-Dihydro-3,4a,5-triaza-fluorene
12, 995f4a,8a-Dihydro-1,3,4,5,8,9-hexathia-cyclopenta[b]-naphthalene
4, 10051,2,3,4-Tetrahydro-1,3,8a-triaza-fluorene
12, 995C₃Te₂-C₆-C₆1,2-Ditellura-acenaphthylene
4, 10941,2,3,4-Tetrahydro-3,4a,5-triaza-fluorene
12, 995f3H-3-Arsa-cyclopenta[a]-naphthalene
3, 1149-11799,9a-Dihydro-3,4a,5-triaza-fluorene
12, 990-991C₄Sb-C₆-C₆5H-Dibenzostibole
3, 1149-11793,4a,5-Triaza-fluorene
12, 990-9915H-Benzo[b]arsindole
3, 1149-11793,4a,5-Triaza-fluorene
12, 995C₄B-C₆-C₆5H-Dibenzoborole
3, 1225-12413,4a,5-Triaza-fluorene
12, 9963H-3-Bisma-cyclopenta[a]-naphthalene
3, 1149-1179C₄N-C₄N₂-C₆
9H-2,3,9-Triaza-fluorene
8, 404,9-Dihydro-3H-2,3,9-triaza-fluorene
8, 21f5H-Benzo[b]bismindole
3, 1149-1179C₄N-C₄O₂-C₅N
4a,5,6,8a,9,9a-Hexahydro-4H-1,3-dioxo-4b-aza-fluorene
12, 997C₄N-C₃N₃-C₆1,2,3,4-Tetrahydro-1,3,4a-triaza-fluorene
11, 641C₄N-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-C₆Dibenzopalladiacyclopentadiene
3, 1287Spiro[indoline-1,4'-morpholinium], salt
12, 1052fC₄Pt-C₆-C₆Dibenzoplatinacyclopentadiene
3, 12871,2,3,5,6,10b-Hexahydro-pyrrolo-
[2,1-a]isoquinoline
7, 291-292C₄S-C₃N₂S-C₄N₂3a,6,7,9a-Tetrahydro-4H,5H-
1,8-dithia-4a,5,9-triaza-
cyclopenta[b]naphthalene
12, 327-340C₄N-C₅O-C₆3,4-Dihydro-5-oxa-3-aza-
cyclopenta[a]naphthalene
3, 62fC₄S-C₃N₃-C₄N₂3a,7,8,9a-Tetrahydro-4H-1-
thia-4a,6,7,9-tetraaza-
cyclopenta[b]naphthalene
12, 327-340C₄N-C₆-C₆9H-Carbazole
3, 1-43; 3, 269-351; 3,
45-268; 3, 269-351C₄S-C₅N-C₆4,5-Dihydro-thieno[2,3-c]quinoline
3, 7752,4a,9,9a-Tetrahydro-1H-carbazole
3, 294C₄O-C₃O₃-C₆4a,9a-Dihydro-1,3,4,9-
tetraoxa-fluorene
10, 506C₄S-C₆-C₆Dibenzothiophene
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

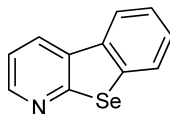
3H-3-Stiba-cyclopenta[a]
naphthalene
3, 1149–1179



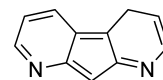
C₄Si-C₆-C₆
9H-Dibenzosilole
3, 1152



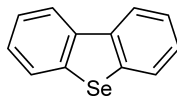
C₄Se-C₅N-C₆
9-Selena-1-aza-fluorene
3, 989–990



C₅-C₅N-C₅N
1H-Cyclopenta[1,2-b:4,3-b0]-
dipyridine
10, 1247

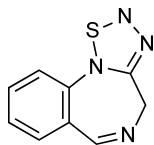


C₄Se-C₆-C₆
Dibenzoselenophene
3, 931; 6, 542

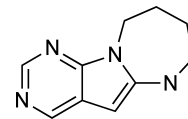


5,6,7

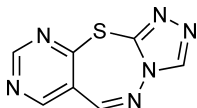
CN₃S-C₆-C₅N₂
2,4-Dihydro-1-thia-2,3,5,10b-
tetraaza-benzo[e]azulene
6, 493



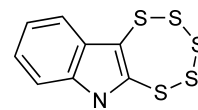
C₄N-C₄N₂-C₅N₂
6,7,8,9-Tetrahydro-5H-2,4,4b,9-
tetraaza-benzo[a]azulene
13, 175



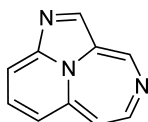
C₂N₃-C₄N₂-C₄N₂S
4-Thia-2,3,5,7,10,10a-hexaaza-
benzo[f]azulene
013, 411f



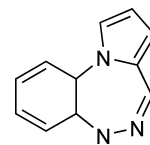
C₄N-C₆-C₂S₅
10H-5,6,7,8,9-Pentathia-10-
aza-benzo[a]azulene
3, 166



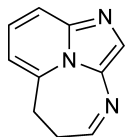
C₃N₂-C₅N-C₅N₂
2,8,9b-Triaza-benzo[cd]azulene
13, 205



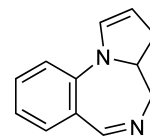
C₄N-C₆-C₄N₃
6a,10a-Dihydro-6H-5,6,10b-
triazza-benzo[c]azulene
13, 473



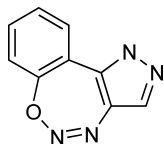
6,7-Dihydro-2,9,9b-triaza-
benzo[cd]azulene
13, 172



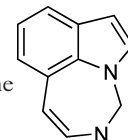
C₄N-C₆-C₅N₂
3a,4-Dihydro-3H-benzo[f]-
pyrrolo[1,2-a][1,4]diazepine
4, 225



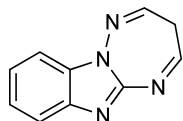
C₃N₂-C₆-C₄N₂O
1H-6-Oxa-1,2,4,5-tetraaza-
benzo[e]azulene
13, 389



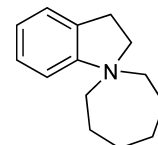
8,9-Dihydro-8,9a-diaza-benzo[cd]azulene
13, 175



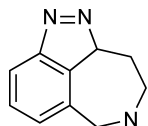
C₃N₂-C₆-C₄N₃
7H-4b,5,9,10-Tetraaza-
benzo[a]azulene
13, 418f



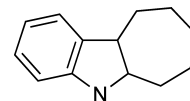
C₄N-C₆-C₆N
Spiro[indoline-heptenium], salt
12, 1052f



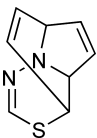
C₃N₂-C₆-C₆N
7,8,9,9a-Tetrahydro-6H-1,2,7-
triazza-benzo[cd]azulene
13, 209



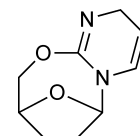
C₄N-C₆-C₇
5,5a,6,7,8,9,10,10a-Octahydro-
cyclohepta[b]indole
3, 327



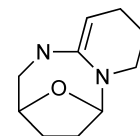
C₄N-C₃N₂S-C₇
11-Thia-8,9-diaza-tricyclo[5.4.0.0^{4,8}]-
undeca-2,5,9-triene
13, 425f



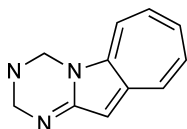
C₄O-C₄N₂-C₄NO₂
8,13-Dioxa-2,6-diaza-
tricyclo[8.2.1.0^{2,7}]trideca-3,6-diene
14, 204



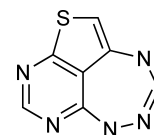
C₄O-C₅N-C₄N₂O
13-Oxa-2,8-diaza-
tricyclo[8.2.1.0^{2,7}]tridec-6-ene
14, 173-174



C₄N-C₃N₃-C₇
3,4-Dihydro-2H-1,3,4a-triazza-
benzo[a]azulene
11, 639



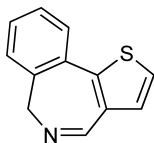
C₄S-C₄N₂-C₄N₃
6,9-Dihydro-2-thia-3,5,6,7,9-
pentaaza-benzo[cd]azulene
13, 420



C₄S-C₆-C₆N

6H-1-Thia-5-aza-benzo[e]azulene

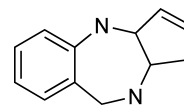
3, 751

C₅-C₆-C₅N₂

1,3a,4,9,10,10a-Hexahydro-

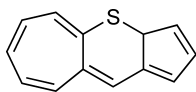
4,10-diaza-benzo[f]azulene

8, 349-350

C₅-C₅S-C₇

3aH-4-Thia-cyclohepta[f]indene

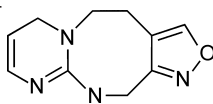
7, 860



5,6,8

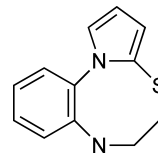
C₃NO-C₄N₂-C₆N₂

4,5,10,11-Tetrahydro-6H-2-oxa-
1,5a,9,10-tetraaza-benzo[a]-
cyclopenta[e]cyclooctene
14, 184f



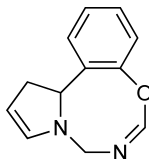
C₄N-C₆-C₅N₂S

7-Thia-2,10-diaza-tricyclo
[9.4.0.02,6]pentadeca-
1(11),3,5,12,14-pentaene
14, 493



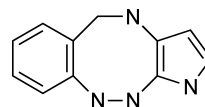
C₄N-C₆-C₄N₂O

10-Oxa-6,8-diaza-tricyclo[9.4.0.02,6]
pentadeca-1(11),4,8,12,14-pentaene
14, 499



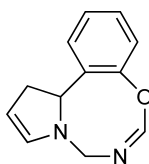
C₄N-C₆-C₅N₃

4,5,10,11-Tetrahydro-1H-
1,4,10,11-tetraaza-benzo[a]
cyclopenta[e]cyclooctene
14, 492



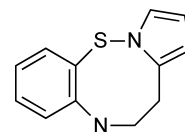
C₄N-C₆-C₅N₂O

10-Oxa-6,8-diaza-tricyclo[9.4.0.02,6]
pentadeca-1(11),4,8,12,14-pentaene
14, 499



C₄N-C₆-C₅N₃

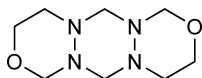
5,6-Dihydro-4H-11-thia-
6,11a-diaza-benzo[a]
cyclopenta[d]cyclooctene
14, 492



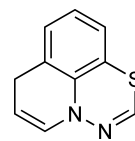
6,6,6

$C_2N_4-C_3N_2O-C_3N_2O$

Tetrahydro-2,6-dioxa-4a,8a,
9a,10a-tetraaza-anthracene
12, 1019

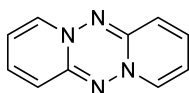


6H-1-Thia-3,3a-diaza-phenalene
12, 241

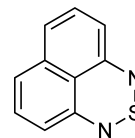


$C_2N_4-C_5N-C_5N$

4a,8a,9,10-Tetraaza-anthracene
12, 321–325

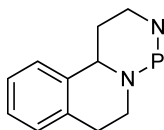


$C_3N_2S-C_6-C_6$
1H,3H-2-Thia-1,3-diaza-phenalene
9, 368, 383

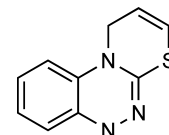


$C_3N_3NOP-C_5N-C_6$

4,4a; 9,10-Tetrahydro-3H-2-
oxa-10a-aza-1-phospha-phenan-
threne
12, 248, 249

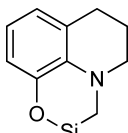


$C_3N_3-CN_4NS-C_6$
4H,9H-1-Thia-4a,9,10-triaza-
phenanthrene
12, 327–340

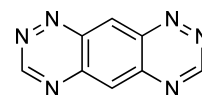


$C_3NOSi-C_5N-C_6$

2,3,5,6-Tetrahydro-4H-1-oxa-3a-
aza-2-sila-phenalene
12, 251

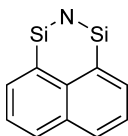


$C_3N_3-C_3N_3-C_6$
1,2,4,5,7,8-Hexaaza-anthracene
10, 1259f

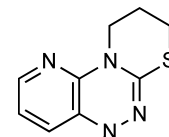


$C_3NSi_2-C_6-C_6$

2,3-Dihydro-1*H*-naphtho[1,8-cd]
[1,2,6]azadisilene
9, 940

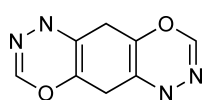


$C_3N_3-C_4NS-C_5N$
3,4-Dihydro-2H,9H-1-thia-
4a,5,9,10-tetraaza-phenanthrene
12, 327–340

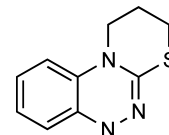


$C_3N_2O-C_3N_2O-C_6$

1,5,9,10-Tetrahydro-4,8-dioxa-
1,2,5,6-tetraaza-anthracene
9, 436

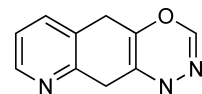


$C_3N_3-C_4NS-C_6$
3,4-Dihydro-2H,9H-1-thia-
4a,9,10-triaza-phenanthrene
12, 327–340

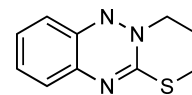


$C_3N_2O-C_5N-C_6$

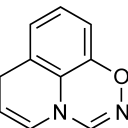
9,10-Dihydro-1H-4-oxa-
1,2,8-triaza-anthracene
10, 1259



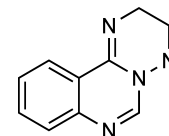
3,4-Dihydro-2H,10H-1-thia-
4a,9,10-triaza-anthracene
12, 327–340



6H-1-Oxa-2,3a-diaza-phenalene
9, 317, 323

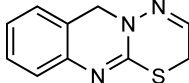


$C_3N_3-C_4N_2-C_6$
2,3-Dihydro-1H-1,4,9,10a-
tetraaza-phenanthrene
12, 327–340

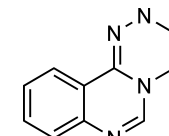


$C_3N_2S-C_4N_2-C_6$

2H,10H-1-Thia-4,4a,
9-triaza-anthracene
12, 327–340

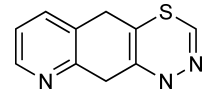


2,3-Dihydro-1H-3,4,9,10a-
tetraaza-phenanthrene
12, 327–340

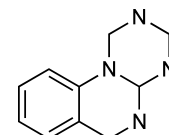


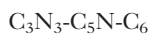
$C_3N_2S-C_5N-C_6$

9,10-Dihydro-1H-4-thia-
1,2,8-triaza-anthracene
10, 1259

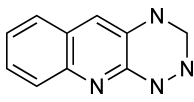


1,3,4,9,10,10a-Hexahydro-2H-
1,3,4a,10-tetraaza-phenanthrene
12, 327–340

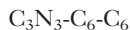
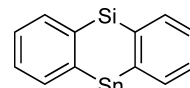




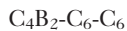
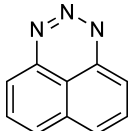
1,2,3,4-Tetrahydro-1,2,4,9-tetraaza-anthracene
10, 888f



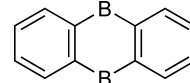
10H-dibenzo[b,e][1,4]stanasiline
9, 26-27, 26



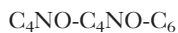
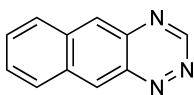
1H-Naphtho[1,8-de][1,2,3]triazine
9, 1-93



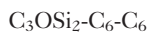
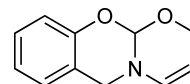
9,10-Dihydro-9,10-dibora-anthracene
9, 922, 922



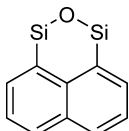
1,2,4-Triaza-anthracene
9, 95-196



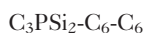
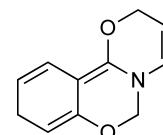
2H,10H-1,9-Dioxa-4a-aza-anthracene
12, 310



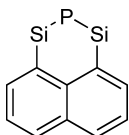
1,3-Dihydronaphtho[1,8-cd][1,2,6]oxadisilene
9, 940



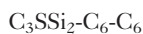
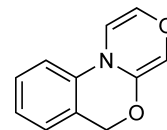
3H,7H-4,9-Dioxa-10a-aza-phenanthrene
12, 310



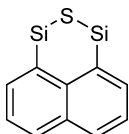
2,3-Dihydro-1H-naphtho[1,8-cd][1,2,6]phosphadisilene
9, 940



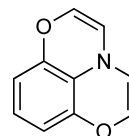
9H-2,10-Dioxa-4a-aza-phenanthrene
12, 310



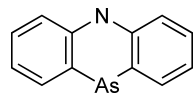
1,3-dihydronaphtho[1,8-cd][1,2,6]thiadisilene
9, 940



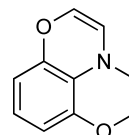
1,6-Dioxa-3a-aza-phenalene
12, 310



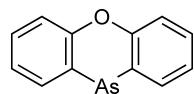
5,10-Dihydro-phenarsazine
9, 880



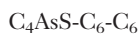
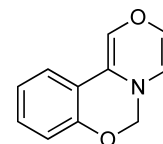
2,3-Dihydro-1,6-dioxa-3a-aza-phenalene
12, 310



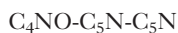
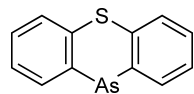
10H-Phenoxarsine
9, 875-911



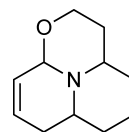
3,9-Dioxa-10a-aza-phenanthrene
12, 310



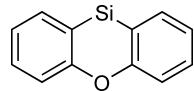
10H-Phenothiarsine
9, 875-911



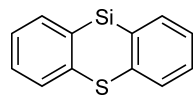
3,3a,4,5,6,6a,7,9a-Octahydro-2H-1-oxa-9b-aza-phenalene
12, 30f



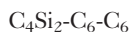
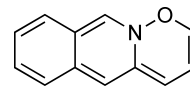
10H-dibenzo[b,e][1,4]oxasiline
9, 26-27, 26



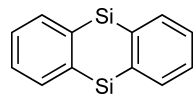
10H-Dibenzo[b,e][1,4]thiasilene
9, 26-27, 26



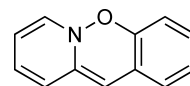
1-Oxa-9a-aza-anthracene
12, 77-217

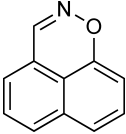
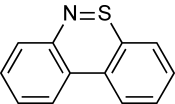
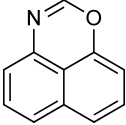
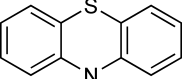
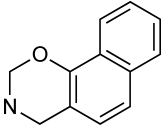
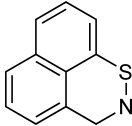
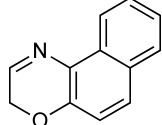
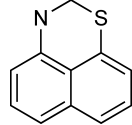
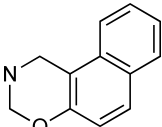
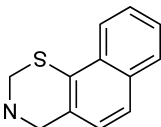
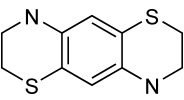
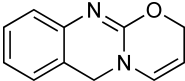
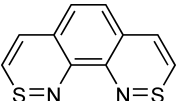
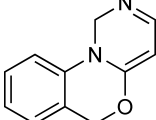
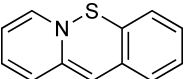
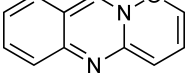
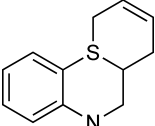
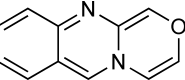
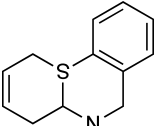
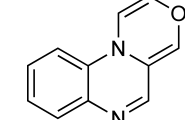
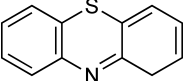
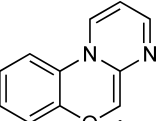
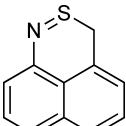
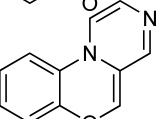


5,10-Dihydrosilanthrene
9, 26-27, 26

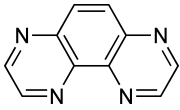
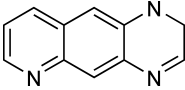
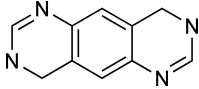
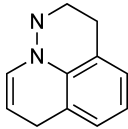
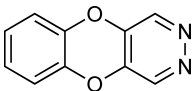
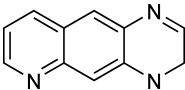
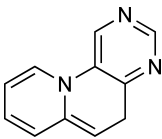
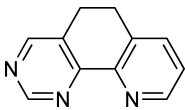
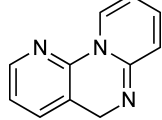
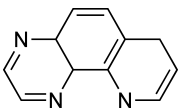
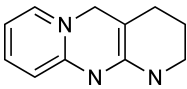
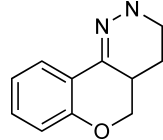
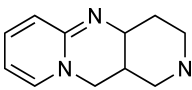
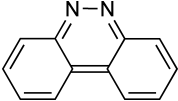
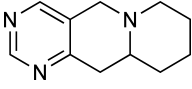
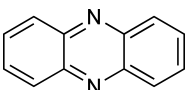
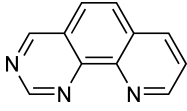
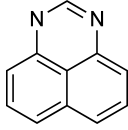
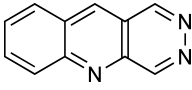
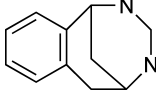
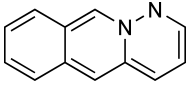
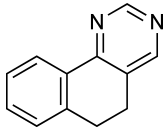
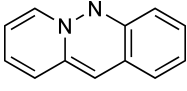
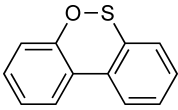
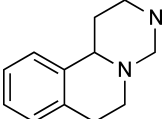


10-Oxa-4a-aza-anthracene
12, 77-217



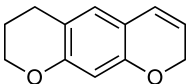
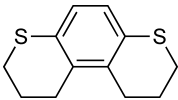
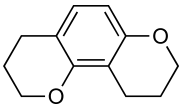
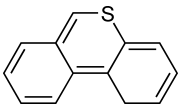
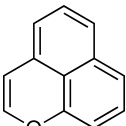
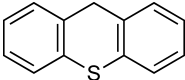
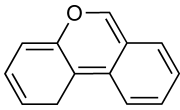
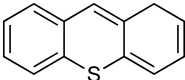
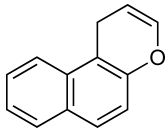
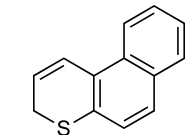
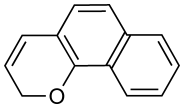
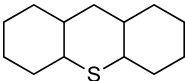
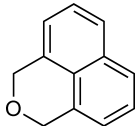
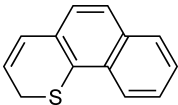
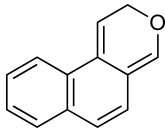
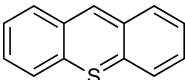
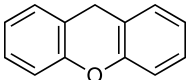
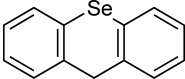
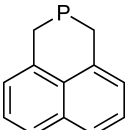
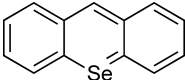
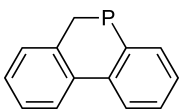
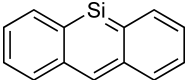
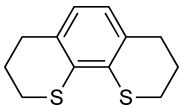
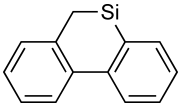
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Naphtho[1,8-de][1,3]oxazine 8, 374		10H-Phenothiazine 8, 607-675	
3,4-Dihydro-2H-naphtho[2,1-c] [1,3]oxazine 8, 380f		2,3-Dihydro-naphtho[1,8-de] [1,3]thiazine 8, 544	
3H-Naphtho[2,1-b][1,4]oxazine 8, 477		2,3-Dihydro-naphtho[1,8-de] [1,3]thiazine 8, 568	
2,3-Dihydro-1H-naphtho[1,2-c] [1,3]oxazine 8, 380f, 382, 399		3,4-Dihydro-2H-naphtho [2,1-c][1,3]thiazine 8, 600	
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3H-2 λ^4 -Thia-1-aza-phenalene 8, 555f		9-Oxa-2,4a-diaza-phenanthrene 12, 294	

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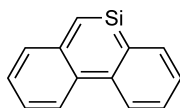
1,4,5,8-Tetraaza-phenanthrene 10, 1258		1,2-Dihydro-pyrido[2,3-g] quinoxaline 10, 1256–1257	
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C ₄ N ₂ -C ₅ N-C ₅ N 10H-1,3,4b-Triaza-phenanthrene 12, 1021		5,6-Dihydro-pyrido[3,2-h] quinazoline 10, 1256–1257	
10H-4,4b,9-Triaza-phenanthrene 12, 1021f		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	
2,3,4,4a,9,9a-Hexahydro- 1H-2,8a,10-triaza-anthracene 12, 1017		C ₄ N ₂ -C ₆ -C ₆ Benzo[c]cinnoline 8, 73	
6,7,8,8a,9,10-Hexahydro-5H- 1,3,10a-triaza-anthracene 12, 1017		Phenazine 6, 569f; 8, 273–331	
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Pyridazino[4,5-b]quinoline 10, 1256–1257		1,2,3,4,5,6-Hexahydro-1,5- methano-benzo[c][1,3]diazocine 14, 185	
1H-Pyridazino[1,6-b]isoquinoline 12, 77–217		5,6-Dihydro-benzo[h]quinazoline 5, 283f	
5H-Pyrido[1,2-b]cinnoline 12, 77–217		C ₄ OS-C ₆ -C ₆ Dibenzo[1,2]oxathiine 8, 677–738	
1,3,4,6,7,11b-Hexahydro-2H- pyrimido[6,1-a]isoquinoline, 2H-1λ ⁴ -Seleno-4a-aza-naphthalene 7, 251–252			

Phenoxathiine 8, 857-905		1,3-Diselena-phenalene 9, 795	
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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	
C ₄ O ₂ -C ₆ -C ₆ 9,10-Dioxa-phenanthrene 8, 677-738		C ₄ Si ₂ -C ₄ Si ₂ -C ₆ 1,2,3,4,5,6,7,8-Octahydro-1,4,5,8-tetrasil-a-anthracene 9, 942	
Dibenzo[b,c][1,4]dioxin 8, 857-905		C ₄ Sn ₂ -C ₆ -C ₆ 9,10-Dihydro-9,10-distanna-anthracene 9, 937	
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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 ₅ N-C ₅ N-C ₅ N 9,10-Dihydro-8H-3,8a-diaza-phenanthrene 12, 1021f	

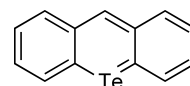
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C ₅ N-C ₅ N-C ₅ O 1H,9H-2-Oxa-8a-aza-anthracene 12, 1018f; 12, 77-217		5,10-Dihydro-pyrido[3,2-g]quinoline 10, 1229-1268, 1250-1252, 1252-1254	
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9,9a-Dihydro-1H,4aH-2-oxa-8a-aza-anthracene 12, 1018f; 12, 52f; 12, 77-217		[4,7]Phenanthroline 10, 1248-1249, 1252-1254	
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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	
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1,3,4,6,7,11b-Hexahydro-2H-pyrido[2,1-a]isoquinoline 12, 1-75		Phenanthridine 7, 76-77	
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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	
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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	

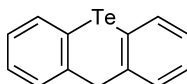
9-Sila-phenanthrene
7, 1063



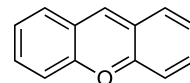
10 λ^4 -Telluroxanthene
7, 955-1001



C₅Te-C₆-C₆
10H-Dibenzo[b,c]tellurinin
(9H-telluroxanthene)
7, 955-1001



C₆O-C₆-C₆
Xanthylum
7, 337-418; 7, 419-699;
7, 701-726

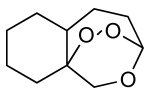


6,6,7

C₃O₃-C₆-C₅O₂

10,11,13-Trioxa-tricyclo[7.2.2.01,6]
tridecane

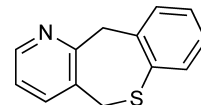
13, 399–431; 13, 80f



C₅N-C₆-C₆S

5,11-Dihydro-10-thia-4-aza-
dibenzo[a,d]cycloheptene

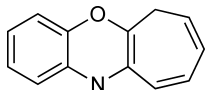
13, 124



C₄NO-C₆-C₇

6,11-Dihydro-5-oxa-11-aza-
cyclohepta[b]naphthalene

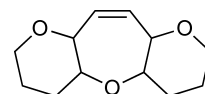
8, 463–464



C₅O-C₅O-C₆O

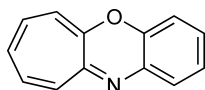
2,3,4,4a,5a,6,7,8,9a,11a-
Decahydro-1,5,9-trioxa-
dibenzo[a,d]cycloheptene

13, 63



5-Oxa-11-aza-cyclohepta[b]
naphthalene

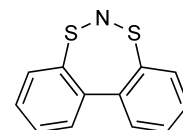
8, 475f, 493



C₆-C₆-C₄NS₂

5,7-Dithia-6-aza-
dibenzo[a,c]cycloheptene

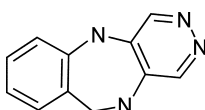
13, 396



C₄N₂-C₆-C₅NO

10,11-Dihydro-5-oxa-2,3,11-
triazza-dibenzo[a,d]cycloheptene

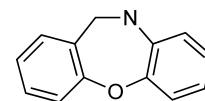
13, 273



C₆-C₆-C₅NO

10,11-Dihydro-dibenzo[b,f]
[1,4]oxazepine

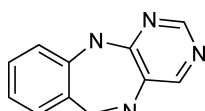
13, 275f



C₄N₂-C₆-C₅N₂

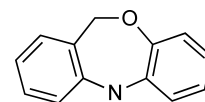
5H-2,4,5,11-Tetraaza-
dibenzo[a,d]cycloheptene

13, 214



1,2,3,5-Tetrahydro-
benzo[c][1,4]oxazepine

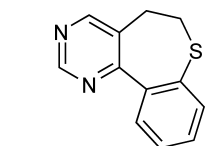
13, 277f



C₄N₂-C₆-C₆S

5,6-Dihydro-7-thia-1,3-diaza-
dibenzo[a,c]cycloheptene

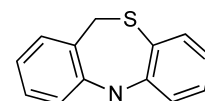
5, 283f



C₆-C₆-C₅NS

5,11-Dihydro-10-thia-5-aza-
dibenzo[a,d]cycloheptene

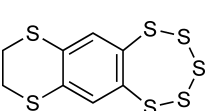
7, 7405



C₄S₂-C₆-C₂S₅

2,3-Dihydro-1,4,6,7,8,9,10-
heptathia-cyclohepta[b]
naphthalene

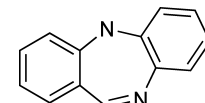
13, 543, 545



C₆-C₆-C₅N₂

5H-Dibenzo[b,e][1,4]diazepine

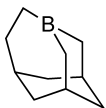
13, 195



C₅B-C₅B-C₆B

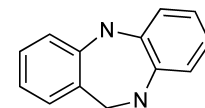
3-Bora-tricyclo[4.3.1.1^{3,8}]undecane

12, 573–633



10,11-Dihydro-5H-
dibenzo[b,e][1,4]diazepine

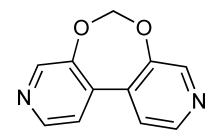
13, 212, 218



C₅N-C₅N-C₅O₂

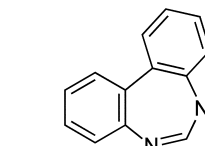
5,7-Dioxa-3,9-diaza-dibenzo[a,c]
cycloheptene

13, 355



5H-Dibenzo[d,f][1,3]diazepine

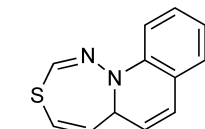
13, 170



C₅N-C₆-C₄N₂S

6aH-9-Thia-11,11a-diaza-
cyclohepta[a]naphthalene

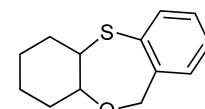
13, 426f



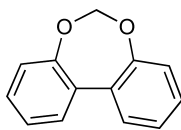
C₆-C₆-C₅OS

5a,6,7,8,9,9a-Hexahydro-
11H-10-oxa-5-thia-
dibenzo[a,d]cycloheptene

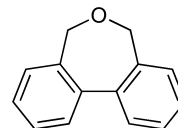
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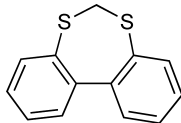
C₆-C₆-C₅O₂
5,7-Dioxa-dibenzo[a,c]
cycloheptene
13, 351f, 350, 356



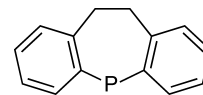
5,7-Dihydro-dibenzo[c,e]oxepine
13, 45-95



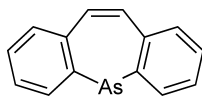
C₆-C₆-C₅S₂
5,7-Dithia-dibenzo[a,c]
cycloheptene
13, 350, 356, 357



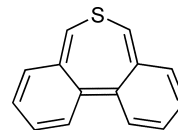
C₆-C₆-C₆P
10,11-Dihydro-5H-5-phospha-
dibenzo[a,d]cycloheptene
14, 919, 919



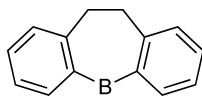
C₆-C₆-C₆As
5H-5-Arsa-dibenzo[a,d]
cycloheptene
14, 965



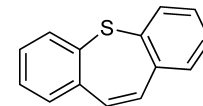
C₆-C₆-C₆S
Dibenz[c,e]thiepin
13, 97-141



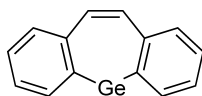
C₆-C₆-C₆B
10,11-Dihydro-5H-5-bora-
dibenzo[a,d]cycloheptene
14, 1046



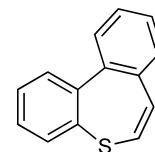
Dibenzo[b,f]thiepine
13, 97-141



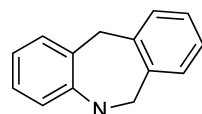
C₆-C₆-C₆Ge
5H-5-Germa-dibenzo[a,d]
cycloheptene
14, 985



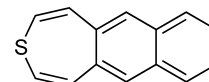
5-Thia-dibenzo[a,c]cycloheptene
13, 97-141



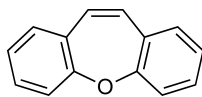
C₆-C₆-C₆N
6,11-Dihydro-5H-dibenzo[b,e]
azepine
1, 584-585



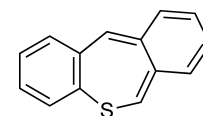
8-Thia-cyclohepta[b]
naphthalene
13, 131



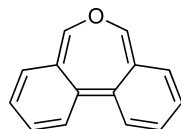
C₆-C₆-C₆O
Dibenzo[b,f]oxepine
13, 59



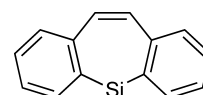
10-Thia-dibenzo[a,d]
cycloheptene
13, 97-141



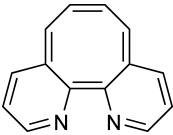
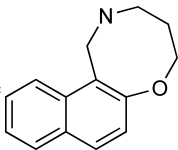
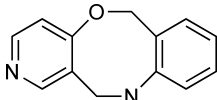
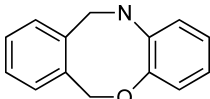
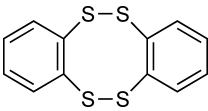
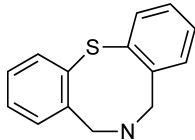
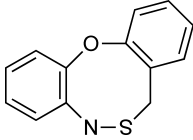
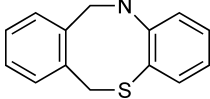
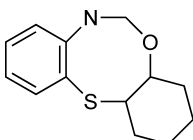
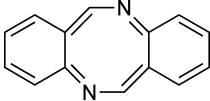
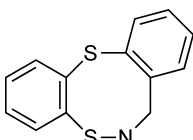
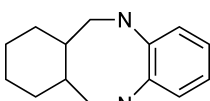
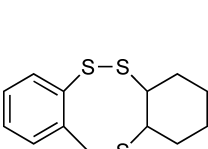
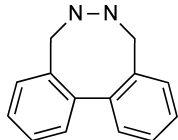
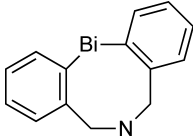
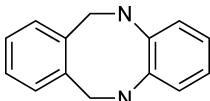
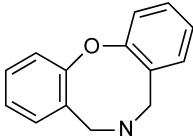
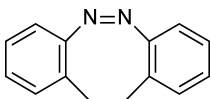
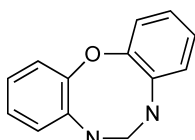
Dibenz[c,e]oxepin
13, 45-95



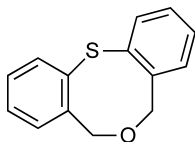
C₆-C₆-C₆Si
5H-5-Sila-dibenzo[a,d]
cycloheptene
14, 984



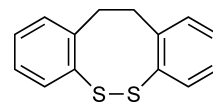
6,6,8

<p>$C_5N-C_5N-C_8$ Cycloocta[1,2-b;8,7-b0]dipyridine 10, 1259–1260</p>		<p>9,10,11,12-Tetrahydro-8H-7-oxa-11-aza-cycloocta[a]naphthalene 14, 397f</p>	
<p>$C_5N-C_6-C_6NO$ 11,12-Dihydro-6H-5-oxa-2,11-diaza-dibenzo[a,e]cyclooctene 14, 398</p>		<p>11,12-Dihydro-6H-5-oxa-12-aza-dibenzo[a,e]cyclooctene 14, 277</p>	
<p>$C_6-C_6-C_4S_4$ 5,6,11,12-Tetrathia-dibenzo[a,e]cyclooctene 8, 892; 14, 517–546</p>		<p>$C_6-C_6-C_6NS$ 6,7-Dihydro-5H-12-thia-6-aza-dibenzo[a,d]cyclooctene 14, 409</p>	
<p>$C_6-C_6-C_5NOS$ 5H,7H-12-Oxa-6-thia-5-aza-dibenzo[a,d]cyclooctene 14, 503</p>		<p>11,12-Dihydro-6H-5-thia-12-aza-dibenzo[a,e]cyclooctene 14, 281–282</p>	
<p>1,2,3,4,4a,6,7,12a-Octahydro-5-oxa-12-thia-7-aza-dibenzo[a,d]cyclooctene 14, 500</p>		<p>$C_6-C_6-C_6N_2$ Dibenzo[b,f][1,5]diazocine 8, 404</p>	
<p>$C_6-C_6-C_5NS_2$ 6,7-Dihydro-5,12-dithia-6-aza-dibenzo[a,d]cyclooctene 6, 55</p>		<p>5,6,6a,7,8,9,10,10a,11,12-Decahydro-dibenzo[b,f][1,4]diazocine 14, 272</p>	
<p>$C_6-C_6-C_5S_3$ 6a,7,8,9,10,10a-Hexahydro-12H-5,6,11-trithia-dibenzo[a,e]cyclooctene 1, 406f</p>		<p>5,6,7,8-Tetrahydro-dibenzo[d,f][1,2]diazocine 14, 118</p>	
<p>$C_6-C_6-C_6BiN$ 5,6,7,12-Tetrahydro-6-aza-12-bisma-dibenzo[a,d]cyclooctene 14, 963</p>		<p>5,6,11,12-Tetrahydro-dibenzo[b,f][1,4]diazocine 14, 272</p>	
<p>$C_6-C_6-C_6NO$ 6,7-Dihydro-5H-12-oxa-6-aza-dibenzo[a,d]cyclooctene 14, 389, 394f, 398</p>		<p>11,12-Dihydro-dibenzo[c,g][1,2]diazocine 14, 117</p>	
		<p>$C_6-C_6-C_6N_2O$ 6,7-Dihydro-5H-12-oxa-5,7-diaza-dibenzo[a,d]cyclooctene 14, 499</p>	

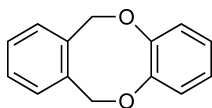
C₆-C₆-C₆OS
 5H,7H-6-Oxa-12-thia-
 dibenzo[a,d]cyclooctene
 14, 443



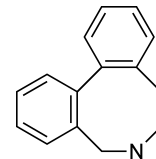
11,12-Dihydro-5,6-dithia-
 dibenzo[a,c]cyclooctene
 14, 160



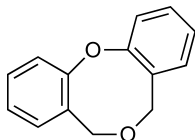
C₆-C₆-C₆O₂
 2,3,4,5-Tetrahydro-
 benzo[b]dioxocine
 14, 289f



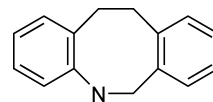
C₆-C₆-C₇N
 5,6,7,8-Tetrahydro-
 dibenzo[c,e]azocine
 14, 8f5



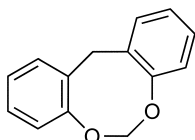
5H,7H-6,12-Dioxa-
 dibenzo[a,d]cyclooctene
 14, 417



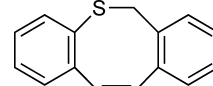
5,6,11,12-Tetrahydro-
 dibenzo[b,f]azocine
 14, 32



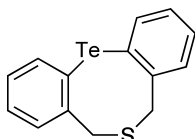
12H-5,7-Dioxa-
 dibenzo[a,d]cyclooctene
 14, 241f



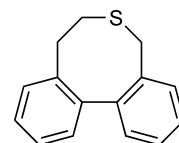
C₆-C₆-C₇S
 6H-5-Thia-dibenzo[a,e]
 cyclooctene
 14, 93



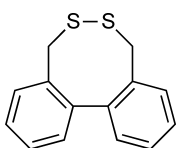
C₆-C₆-C₆STe
 5H,7H-6-Thia-12-tellura-
 dibenzo[a,d]cyclooctene
 14, 880



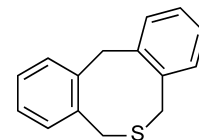
7,8-Dihydro-5H-6-thia-
 dibenzo[a,c]cyclooctene
 14, 94



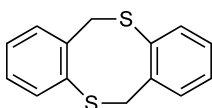
C₆-C₆-C₆S₂
 5,8-Dihydro-6,7-dithia-
 dibenzo[a,c]cyclooctene
 14, 160



7,12-Dihydro-5H-6-thia-
 dibenzo[a,d]cyclooctene
 14, 94



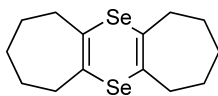
6H,12H-Dibenzo[b,f]
 [1,5]dithiocin
 14, 451



6,7,7

C₄Se₂-C₇-C₇

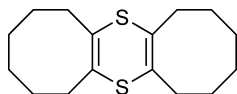
2,3,4,5,8,9,10,11-Octahydro-
1H,7H-6,12-diselena-
benzo[1,2;4,5]dicycloheptene
9, 811



6,8,8

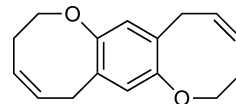
C₄S₂-C₈-C₈

1,2,3,4,5,6,8,9,10,11,12,13-
Dodecahydro-7,14-dithia-
benzo[1,2;4,5]dicyclooctene
1, 392



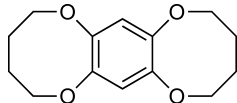
C₆-C₇O-C₇O

2,3,6,9,10,13-Hexahydro-
1,8-dioxa-benzo[1,2;4,5]
dicyclooctene
14, 66

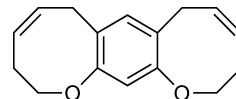


C₆-C₆O₂-C₆O₂

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



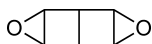
3,3,4,4

C₂O-C₂O-C₄-C₄

3,7-Dioxatetracyclo[3.3.0.0^{2,4}.0^{6,8}]

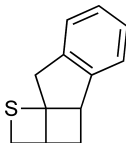
octane

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



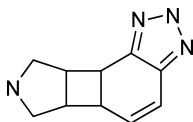
4,5,5,6

C₄-C₂N₃-C₄N-C₆

2,5a,5b,6,7,8,8a,8b-Octahydro-

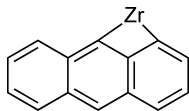
1,2,3,7-tetraaza-cyclopenta[3,4]
cyclobuta[1,2-e]indene

5, 40-41



4,6,6,6

C₃Zr-C₆-C₆-C₆
1H-1-Zircona-cyclobuta[de]
anthracene
2, 593

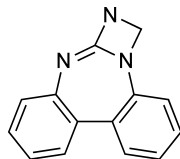


4,6,6,7

C₂N₂-C₆-C₆-C₅N₂

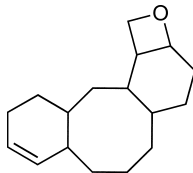
1,2-Dihydro-2,3,9b-triaza-
dibenzo[a,b]cyclobuta[c]
cycloheptene

2, 630–631

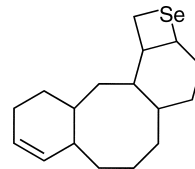


4,6,6,8

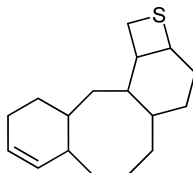
C₃O-C₆-C₆-C₈
6-oxatetracyclo [11.3.1.0^λ
3,10^λ.0^λ4,7^λ] heptadec-
13-en-2-yl
2, 382



6-selenatetracyclo
[11.3.1.0^λ,3,10^λ.0^λ4,7^λ]
heptadec-13-en-2-yl
2, 470

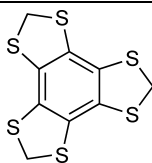


C₃S-C₆-C₆-C₈
6-thia-tetracyclo [11.3.1.0^λ
3,10^λ.0^λ4,7^λ] heptadec-
13-en-2-yl
2, 436, 441–442, 453–454

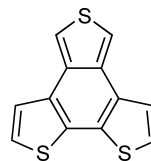


5,5,5,6

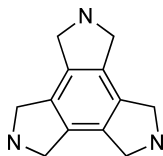
$C_3S_2-C_3S_2-C_3S_2-C_6$
1,3,4,6,7,9-Hexathia-trindene
4, 962



$C_4S-C_4S-C_4S-C_6$
1,5,9-Trithia-trindene
3, 889f

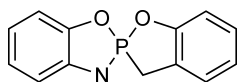


$C_4N-C_4N-C_4N-C_6$
2,3,4,5,6,7,8,9-Octahydro-1H-
2,5,8-triaza-trindene
10, 1180-1181

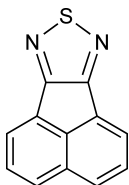


5,5,6,6

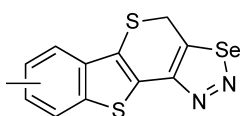
$C_2NOP-C_3OP-C_6-C_6$
1,6-Dioxo-4-aza-5 λ^5 -
phospha-2,7-dibenzo-
spiro[4.4]nona-2,7-diene
12, 532–533



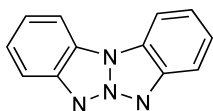
$C_2N_2S-C_5-C_6-C_6$
8-Thia-7,9-diaza-
cyclopenta[a]acenaphthylene
5, 528



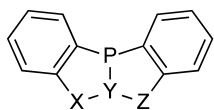
$C_2N_2Se-C_4S-C_5S-C_6$
4H-5,10-Dithia-3-selena-1,2-
diazacyclopenta[a]fluorene
6, 562*f*



$C_2N_3-C_2N_3-C_6-C_6$
5H,7H-Benzotriazolo[1,2-a]
benzotriazole
11, 199–305

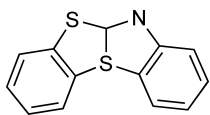


$C_2P(X)(Y)-C_2P(Y)(Z)-C_6-C_6$
9,10-9a λ^4 -Trishetero-4b-
phospha-indeno[1,2-a]indene
12, 537

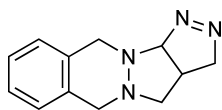


X, Y, Z = B, P, O, S, S

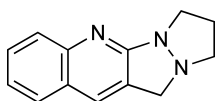
$C_3NS-C_3S_2-C_6-C_6$
9a,10-Dihydro-4bH-
4b λ^4 ,9-dithia-10-aza-
indeno[1,2-a]indene
12, 501



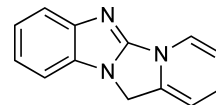
$C_3N_2-C_3N_2-C_4N_2-C_6$
1,3a,4,9,10,10a-Hexahydro-
2,3,3b,9a-tetraaza-
pentaleno[1,2-b]naphthalene
12, 822



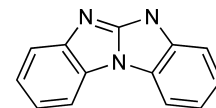
$C_3N_2-C_3N_2-C_5N-C_6$
2,3-Dihydro-1H,10H-3a,4,10a-
triazapentaleno[1,2-b]
naphthalene
12, 822*f*



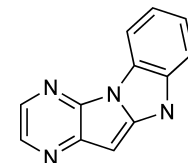
2,10-Dihydro-4a,5,9b-
triazaindeno[2,1-a]indene
12, 824*f*



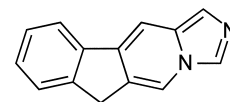
$C_3N_2-C_3N_2-C_6-C_6$
9H-4b,9,10-Triaza-
indeno[1,2-a]indene
11, 219



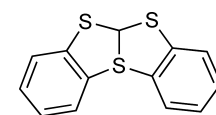
$C_3N_2-C_4N-C_4N_2-C_6$
9H-1,4,4b,9-Tetraaza-
indeno[1,2-a]indene
12, 801*f*



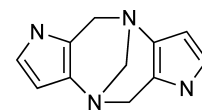
$C_3N_2-C_5-C_5N-C_6$
9H-2,10a-Diaza-
cyclopenta[b]fluorene
4, 217*f*



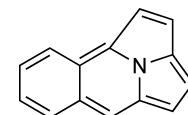
$C_3S_2-C_3S_2-C_6-C_6$
4b,9a-Dihydro-4b λ^4 ; 9,10-
trithia-indeno[1,2-a]indene
12, 501; **4**, 983*f*



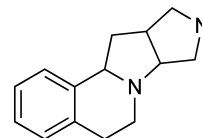
$C_4N-C_4N-C_4N_2-C_4N_2$
4,5,9,10-tetrahydro-1H,6H-
dipyrrolo-[3,2-b:3',2'-f][1,5]-
diazocin-2,7-dicarboxylate
14, 345*f*



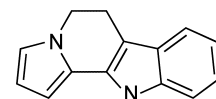
$C_4N-C_4N-C_5N-C_6$
Pyrrolizino[3,4,5-ab]isoquinoline
12, 838

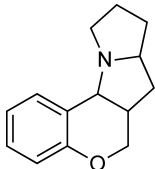
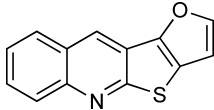
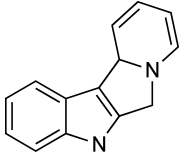
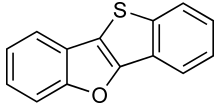
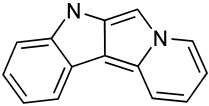
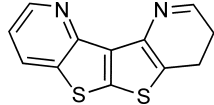
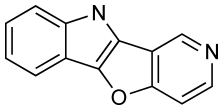
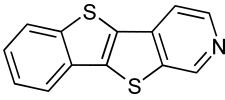
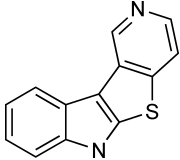
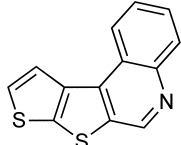
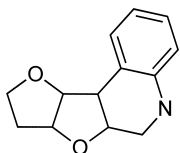
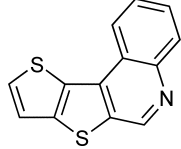
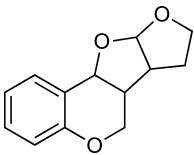
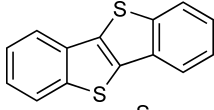
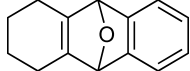
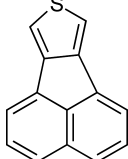


5,7a,8,9,10,10a; **11**,11a-
Octahydro-6H-pyrrolo[3',4':4,5]
pyrrolo[2,1-a]isoquinoline
12, 812–813



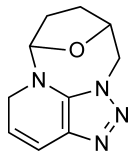
6,11-Dihydro-5H-
indolizino[8,7-b]indole
12, 32*f*



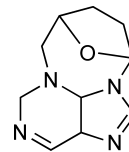
6a,7a,8,9,10,10b-Hexahydro-6H,7H-5-oxa-10a-azapentaleno[1,2-a]naphthalene 12, 801–802		C ₄ O-C ₄ S-C ₅ N-C ₆ 3-Oxa-10-thia-9-azapentaleno[1,2-b]naphthalene 12, 792	
9,10-Dihydro-4cH-8a,10-diazaindeno[1,2-a]indene 12, 806		C ₄ O-C ₄ S-C ₆ -C ₆ 5-Oxa-10-thia-indeno[2,1-a]indene 10, 12, 39	
10H-8a,10-Diazaindeno[1,2-a]indene 10, 19		C ₄ S-C ₄ S-C ₅ N-C ₅ N 1,2-Dihydro-9,10-dithia-4,5-diazaindeno[1,2-a]indene 12, 788	
C ₄ N-C ₄ O-C ₅ N-C ₆ 5H-10-Oxa-3,5-diazaindeno[2,1-a]indene 12, 779f		C ₄ S-C ₄ S-C ₅ N-C ₆ 5,10-Dithia-2-azaindeno[2,1-a]indene 12, 788	
C ₄ N-C ₄ S-C ₅ N-C ₆ 9H-10-Thia-3,9-diazaindeno[1,2-a]indene 12, 780f		7,8-Dithia-5-azapentaleno[1,2-a]naphthalene 12, 786	
C ₄ O-C ₄ O-C ₅ N-C ₆ 6,6a,8,9,10a,10b-Hexahydro-5H,7aH-7,10-dioxa-5-azapentaleno[1,2-a]naphthalene 12, 785		7,10-Dithia-5-azapentaleno[1,2-a]naphthalene 12, 787f	
C ₄ O-C ₄ O-C ₅ O-C ₆ 6,6a,6b,7,8,9a-Hexahydro-10aH-5,9,10-trioxapentaleno[2,1-a]naphthalene 12, 790f		C ₄ S-C ₄ S-C ₆ -C ₆ 5,10-Dithia-indeno[2,1-a]indene 10, 40; 3, 853	
C ₄ O-C ₄ O-C ₆ -C ₆ 11-Oxa-9-benzotricyclo[6.2.1.0 ^{2,7}]undeca-2(7),9-diene 1, 546		C ₄ S-C ₅ -C ₆ -C ₆ 8-Thia-cyclopenta[a]acenaphthylene 3, 901–902	

5,5,6,7

C₂N₃-C₄O-C₅N-C₄N₂O
7,8,9,10-Tetrahydro-5H,6H-
1,2,5a,10a-tetraaza-7,9-oxa-
cycloocta[cd]indene
14, 182*f*



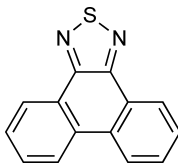
C₃N₂-C₄O-C₄N₂-C₄N₂O
7,8,9,10-Tetrahydro-
5H,6H-2,4,5a,10a-tetraaza-7,9-
oxa-cycloocta[cd]indene
14, 180*f*



5,6,6,6

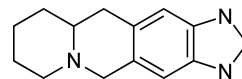
C₂N₂S-C₆-C₆-C₆

2-Thia-1,3-diaza-cyclopenta[l]
phenanthrene
5, 530



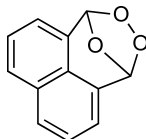
C₃O₂-C₅N-C₅N-C₆

6,7,8,9,9a,10-Hexahydro-
5H-1,3-dioxo-5a-aza-
cyclopenta[b]anthracene
12, 38f



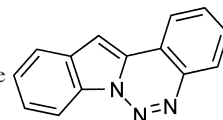
C₂O₃-C₅O-C₆-C₆

1,4-Epoxy-1H,4H-
naphtho[1,8-de][1,2]dioxepin
13, 313



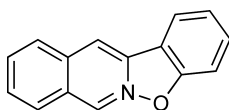
C₄N-C₃N₃-C₆-C₆

5,6,6a-Triaza-benzo[a]fluorene
11, 635



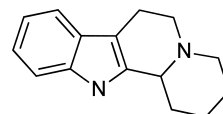
C₃NO-C₅N-C₆-C₆

11-Oxa-10a-aza-
benzo[b]fluorene
7, 50



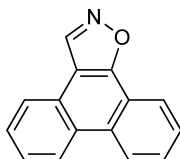
C₄N-C₅N-C₅N-C₆

1,2,3,4,6,7,12,12b-
Octahydro-indolo[2,3-a]
quinolizine
12, 51f

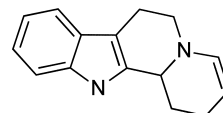


C₃NO-C₆-C₆-C₆

1-Oxa-2-aza-
cyclopenta[l]phenanthrene
4, 391

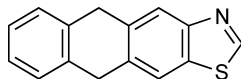


1,2,6,7,12,12b-Hexahydro-
indolo[2,3-a]quinolizine
12, 52f

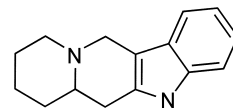


C₃NS-C₆-C₆-C₆

5,10-Dihydro-1-thia-3-
aza-cyclopenta[b]anthracene
4, 666

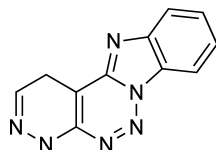


6,7,8,9,10,12-Hexahydro-
5H,6aH-indolo[2,3-b]
quinolizine
12, 36f

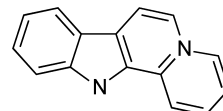


C₃N₂-C₃N₃-C₄N₂-C₆

1,4-Dihydro-3,4,5,6,6a,11-
hexaaza-benzo[a]fluorene
10, 1126

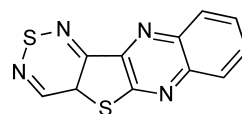


12H-Indolo[2,3-a]quinolizine
12, 32f



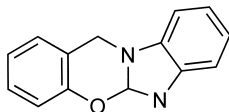
C₄S-C₃N₂S-C₄N₂-C₆

11aH-3,11-Dithia-2,4,5,10-
tetraaza-benzo[b]fluorene
9, 356, 391



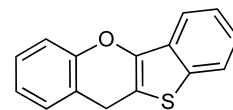
C₃N₂-C₄NO-C₆-C₆

10a,11-Dihydro-5H-10-oxa-
4b,11-diaza-benzo[b]fluorene
4, 202f



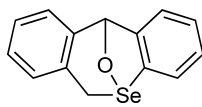
C₄S-C₅O-C₆-C₆

10H-5-Oxa-11-thia-benzo[b]
fluorene
3, 863f



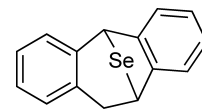
C₃OSe-C₄OSe-C₆-C₆

9-Oxa-1λ⁴-selena-3,6-dibenzo-
bicyclo[3.3.1]nona-3,6-diene
4, 1103



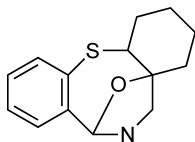
C₄Se-C₅Se-C₆-C₆

8-Selena-2,6-dibenzo-
bicyclo[3.2.1]octa-2,6-diene
12, 492

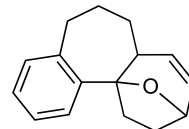


5,6,6,7

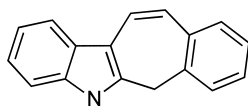
C₃NO-C₆-C₆-C₅OS
13-Oxa-7-thia-11-aza-
benzotricyclo[8.2.1.0^{1,6}]
tridec-8-ene
14, 416*f*



C₄O-C₅O-C₆-C₇
13-Oxa-2-benzo-
tricyclo[8.2.1.0^{1,7}]tridec-8-ene
3, 522

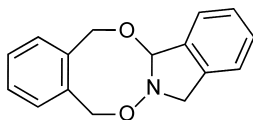


C₄N-C₆-C₆-C₇
5,6-Dihydro-benzo[5,6]
cyclohepta[1,2-b]indole
3, 105*f*

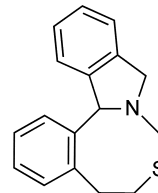


5,6,6,8

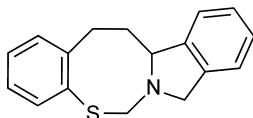
C₄N-C₆-C₆-C₅NO₂
4b,6,7,8,9,11-Hexahydro-
5,10-dioxa-10a-aza-benzo
[7.8]cycloocta[a]indene
14, 495



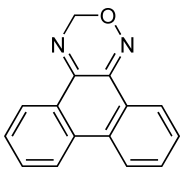
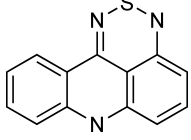
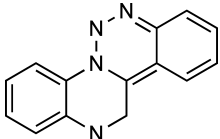
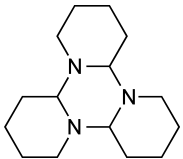
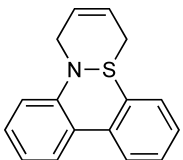
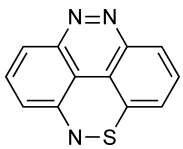
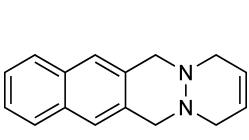
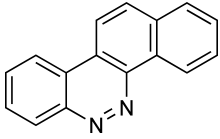
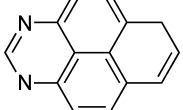
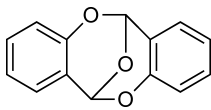
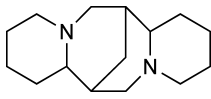
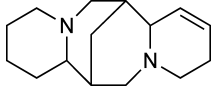
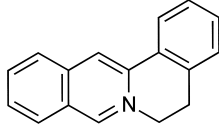
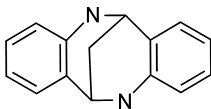
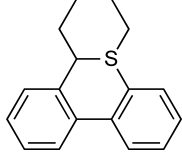
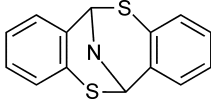
4b,7,8,11-Tetrahydro-9-
thia-10a-aza-benz[5.6]
cycloocta[a]indene
14, 195



C₄N-C₆-C₆-C₆NS
4b,5,6,11-Tetrahydro-9-
thia-10a-aza-benz[7.8]
cycloocta[a]inden
14, 231f



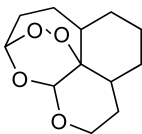
6,6,6,6

- $C_3N_2O-C_6-C_6-C_6$
 3H-2-Oxa-1,4-diaza-triphenylene
9, 348
 
- $C_3N_2S-C_5N-C_6-C_6$
 3H,7H-2-Thia-1,3,7-triaza-
 benzo[de]anthracene
10, 896
 
- $C_3N_3-C_4N_2-C_6-C_6$
 11,12-Dihydro-5H-4b,5,6,12-
 tetraaza-chrysenes
12, 327–340
 
- $C_3N_3-C_5N-C_5N-C_5N$
 Dodecahydro-4a,8a,12a-
 triaza-triphenylene
7, 194–195
 
- $C_4NS-C_4NS-C_6-C_6$
 4,4a-Dihydro-1H-4a λ^4 -
 thia-12b-aza-triphenylene
8, 540; **12**, 494
 
- $5H-4-Thia-5,9,10-triaza-pyrene$
8, 72
 
- $C_4N_2-C_4N_2-C_6-C_6$
 1,4,6,13-Tetrahydro-
 benzo[g]pyridazino[1,2-b]
 phthalazine
8, 37
 
- $C_4N_2-C_6-C_6-C_6$
 5,6-Diaza-chrysenes
8, 78
 
- 1,6-Dihydro-benzo[gh]perimidine
10, 65–127
 
- $C_4O_2-C_4O_2-C_6-C_6$
 2,6,9-Trioxa-3,7-dibenzo-
 bicyclo[3.3.1]nona-3,7-diene
14, 441f
 
- $C_5N-C_5N-C_5N-C_5N$
 Dodecahydro-7,14-methano-
 dipyrdo[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-dipyrdo[1,2-a;1',2'-c]
 [1,5]diazocine
14, 331f, 333f, 342, 347f
 
- $C_5N-C_5N-C_6-C_6$
 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
 
- $C_5S-C_5S-C_6-C_6$
 1,2,3,4,4a,12b-Hexahydro-
 4a λ^4 -thia-triphenylene
12, 485, 488
 
- $C_6-C_6-C_4NS-C_4NS$
 6H,12H-Dibenzo[b,f][1,5]
 dithiocin-6,12-imine
14, 462f
 

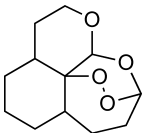
6,6,6,7

C₃O₃-C₅O-C₆-C₅O₂

Dodecahydro-1,10-dioxa-9,10b-
epoxy-cyclohepta[de]naphthalene
10, 847-913; 13, 299-319;
9, 597, 599, 617

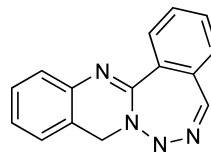


9, 597, 599, 617



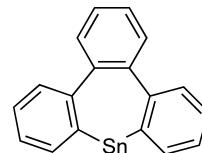
C₄N₂-C₆-C₆-C₄N₃

7,8-Dihydro-6,7,7a,13-
tetraaza-benzo[3,4]cyclohepta
[1,2-b]naphthalene
13, 389f



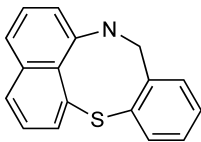
C₆-C₆-C₆-C₆-Sn

9H-9-Stanna-tribenzo[a,c,e]
cycloheptene
14, 986

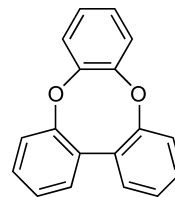


6,6,6,8

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]dioxine
14, 290f

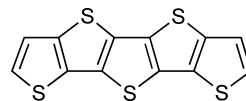


5,5,5,5,5

C₄S-C₄S-C₄S-C₄S-C₄S

3,4,5,8,9-Pentathia-cyclopenta[1,2-a;4,3-a']dipentalene

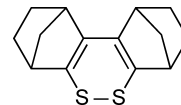
0311



5,5,5,5,6

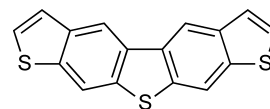
C₅-C₅-C₅-C₅-C₄S₂

1,2,3,4,7,8,9,10-Octahydro-1,4:7,10-dimethanodibenzo[c,c][1,2]dithiin,
8, 677-738



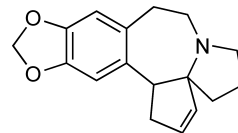
5,5,5,6,6

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

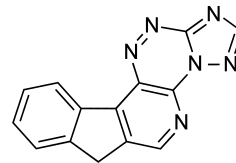


5,5,6,6,6

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

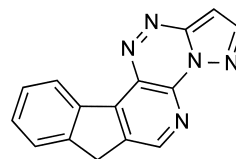
10, 888f



C₃N₂-C₅-C₃N₃-C₅N-C₆

1H-Indeno[1',2':4,5]pyrido[2,3-c]pyrazolo[5,1-c][1,2,4]triazine

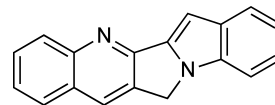
10, 888f



C₄N-C₄N-C₅N-C₆-C₆

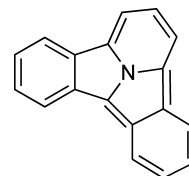
5H-4b,11-Diaza-benzo[4,5]pentaleno[1,2-b]naphthalene

12, 794



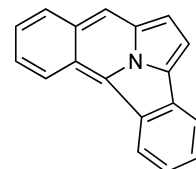
11c-Aza-indeno[1,2,3-jk]fluorene

12, 838



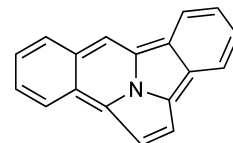
Benzo[1,2]pyrrolizino[3,4,5-ab]isoquinoline

12, 838



Benzo[6,7]pyrrolizino[3,4,5-ab]isoquinoline

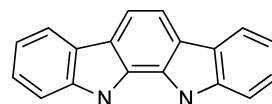
12, 838



C₄N-C₄N-C₆-C₆-C₆

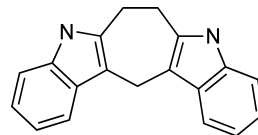
11,12-Dihydro-11,12-diaza-indeno[2,1-a]fluorene

10, 1171, 1172



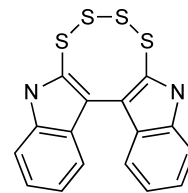
5,5,6,6,7

C₄N-C₄N-C₆-C₆-C₇
6,7,8,13-tetrahydro-5H-Cyclohepta[1,2-b:5,4-b']diindole,
10, 1189



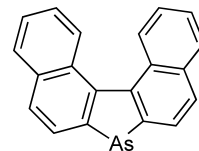
5,5,6,6,8

C₄N-C₄N-C₆-C₆-C₄S₄
5,10-dihydro-[1,2,3,4]Tetrathiocino[5,6-b:8,7-b']diindole,
3, 167-168

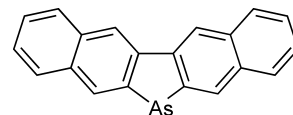


5,6,6,6,6

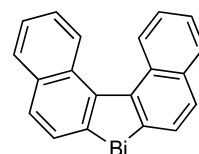
$C_4As-C_6-C_6-C_6-C_6$
7H-7-Arsa-dibenzo[c,g]fluorene
3, 1149–1179



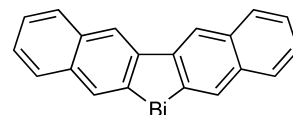
$C_4(As)-C_6-C_6-C_6-C_6$
12H-12-Arsa-dibenzo[b,h]fluorene
3, 1149–1179; 14, 261



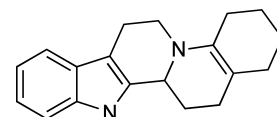
$C_4Bi-C_6-C_6-C_6-C_6$
7H-7-Bisma-dibenzo[c,g]fluorene
3, 1149–1179



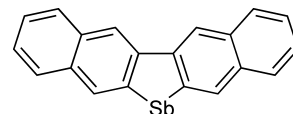
$C_4(Bi)-C_6-C_6-C_6-C_6$
12H-12-Bisma-dibenzo[b,h]fluorene
3, 1149–1179; 14, 261



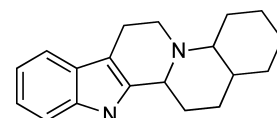
$C_4N-C_5N-C_5N-C_6-C_6$
1,2,3,4,5,6,11,11b; 12,13-Decahydro-4b,11-diaza-indeno[2,1-a]phenanthrene
12, 56



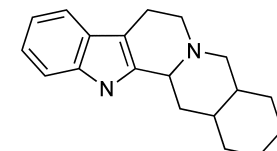
$C_4(Sb)-C_6-C_6-C_6-C_6$
12H-12-Stiba-dibenzo[b,h]fluorene
3, 1149–1179; 14, 261



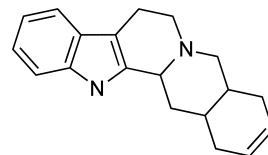
1,2,3,4,4a,5,6,11,11b,12,13,13a-Dodecahydro-4b,11-diaza-indeno[2,1-a]phenanthrene
12, 57f



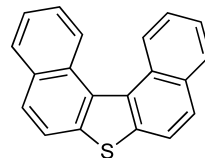
1,2,3,4,4a,5,7,8,13,13b,14,14a-Dodecahydro-indolo[2',3':3,4]pyrido[1,2-b]isoquinoline
12, 38f



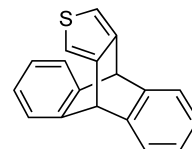
1,4,4a,5,7,8,13,13b,14,14a-Decahydro-indolo[2',3':3,4]pyrido[1,2-b]isoquinoline
12, 37



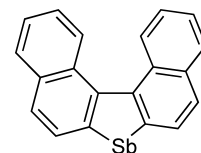
C₄S-C₆-C₆-C₆-C₆
7-Thia-dibenzo[c,g]fluorene
3, 879f



4-Thia-8,10-dibenzo-tricyclo[5.2.2.0^{2,6}]undeca-2,5,8,10-tetraene
3, 752

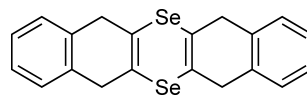


C₄Sb-C₆-C₆-C₆-C₆
7H-7-Stiba-dibenzo[c,g]fluorene
3, 1149-1179

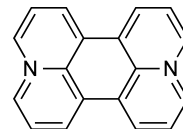


6,6,6,6,6

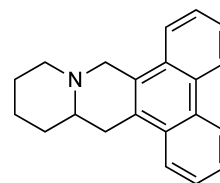
$C_4Se_2-C_6-C_6-C_6-C_6$
5,7,12,14-Tetrahydro-6,13-diselena-pentacene
9, 819f



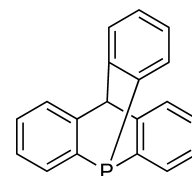
$C_5N-C_5N-C_5N-C_5N-C_6$
3a,9a-Diaza-perylene
12, 52f



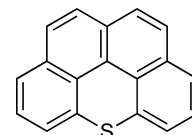
$C_5N-C_5N-C_6-C_6-C_6$
9,10,11,12,13,14-Hexahydro-9aH-13a-aza-benzo[b]triphenylene
12, 48f



$C_5P-C_5P-C_6-C_6-C_6$
10H-5,10[1',2']-Benzenoacridophosphine
7, 1018–1019, 1020

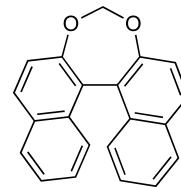


$C_5S-C_6-C_6-C_6-C_6$
6-Thia-benzo[cd]pyrene
7, 753

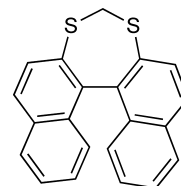


6,6,6,6,7

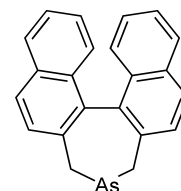
$C_6-C_6-C_6-C_6-C_5O_2$
3,5-Dioxa-cyclohepta[2,1-a;3,4-a']dinaphthalene
13, 355



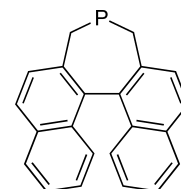
$C_6-C_6-C_6-C_6-C_5S_2$
3,5-Dithia-cyclohepta[2,1-a;3,4-a']dinaphthalene
13, 349, 350



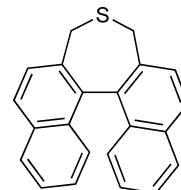
$C_6-C_6-C_6-C_6-C_6As$
4,5-Dihydro-3H-4-arsa-cyclohepta[2,1-a;3,4-a']dinaphthalene
14, 962



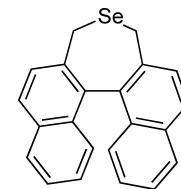
$C_6-C_6-C_6-C_6-C_6P$
4,5-Dihydro-3H-4-phospha-cyclohepta[2,1-a;3,4-a']dinaphthalene
14, 901-944



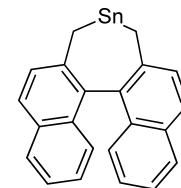
$C_6-C_6-C_6-C_6-C_6S$
3,5-Dihydro-4-thia-cyclohepta[2,1-a;3,4-a']dinaphthalene
13, 125-126, 129-130



$C_6-C_6-C_6-C_6-C_6Se$
3,5-Dihydro-4-selena-cyclohepta[2,1-a;3,4-a']dinaphthalene
14, 877f, 877-878

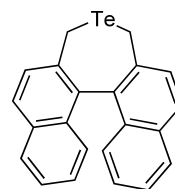


$C_6-C_6-C_6-C_6-C_6Sn$
4,5-Dihydro-3H-4-stanna-cyclohepta[2,1-a;3,4-a']dinaphthalene
14, 986



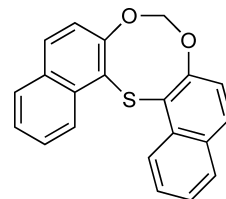
C₆-C₆-C₆-C₆-C₆Te

3,5-Dihydro-4-tellura-cyclohepta[2,1-a;3,4-a']dinaphthalene

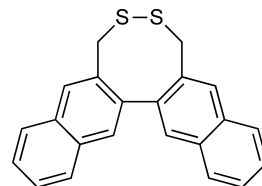
14, 879

6,6,6,6,8

$C_6-C_6-C_6-C_6-C_5O_2S$
5,7-Dioxa-12-thia-dinaphtho[a,d]cyclooctene
14, 499–500



$C_6-C_6-C_6-C_6-C_6S_2$
5,8-Dihydro-6,7-dithia-dinaphtho[a,c]cyclooctene
14, 160



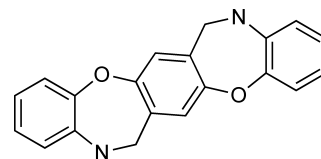
6,6,6,7,7

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

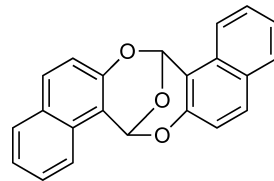


6,6,6,6,6,6

C₄O₂-C₄O₂-C₆-C₆-C₆-C₆

8,16-Epoxy-8H,16H-dinaphtho[2,1-b:29,19-f][1,5]dioxocine

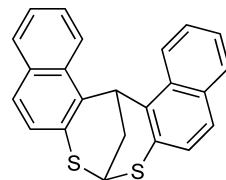
14, 441*f*



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

$C_6-C_6-C_6-C_6-C_6-C_6O_2$
5,8-dioxa-6,7-benzo-dinaphtho[a,c]cyclooctene
14, 261

