



Short Guide to Heterocycles

[Acridine](#)

[Adenine](#)

[Azepine](#)

[Azole](#)

[2H-Azole](#)

[3H-Azole](#)

[Benzimidazole](#)

[Benzisoxazole](#)

[2,1-Benzisoxazole](#)

[Benzofuran](#)

[2H-1-Benzopyran](#)

[2H-1-Benzopyran-2-one](#)

[4H-1-Benzopyran-4-one](#)

[1H-2-Benzopyran-1-one](#)

[3H-2-Benzopyran-3-one](#)

[Benzothiazole](#)

[Benzo\[b\]thiophene](#)

[Benzo\[c\]thiophene](#)

[1H-2,3-Benzoxazine](#)

[2H-1,3-Benzoxazine](#)

[2H-1,4-Benzoxazine](#)

[4H-1,4-Benzoxazine](#)

[4H-3,1-Benzoxazine](#)

[2H-1,2,4-Benzoxadiazine](#)

[Benzoxazole](#)

[Carbazole](#)

[Carbolines](#)

[\$\alpha\$ -Carboline](#)

[\$\beta\$ -Carboline](#)

[\$\gamma\$ -Carboline](#)

[\$\delta\$ -Carboline](#)

[2H-Chromene](#)

[Chromen-4-one](#)

[Cinnoline](#)

[Coumaran](#)

[Coumarin](#)

[Cyclopenta\[b\]pyridine](#)

[7-Deazapurine](#)

[7-Deaza-8-azapurine](#)

[9-Deazapurine](#)

[4H-1,2-Diazepine](#)

[1,2-Diazole](#)

[1,3-Diazole](#)

[1,4-Dioxane](#)

[3H-1,2,3-Dioxazole](#)

[1,2,4-Dioxazole](#)

[1,3,2-Dioxazole](#)

[2H-1,3,4-Dioxazole](#)

[1,2-Dioxin](#)

[1,3-Dioxin](#)

[1,3-Dioxolane](#)

[1,3-Dithiane](#)

[1,4-Dithiane](#)

[2H-1,3-Dithiole](#)

[3H-1,2-Dithiole](#)

[Furan](#)

[Furazan](#)

[Guanine](#)

[Hipoxanthine](#)

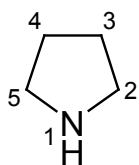
[Imidazolidine](#)

<u>1H-Imidazole</u>	<u>1,2,3,5-Oxatriazole</u>
<u>2H-Imidazole</u>	<u>5-Oxazolone</u>
<u>2-Imidazoline</u>	<u>5H-1,2,5-Oxathiazole</u>
<u>Imidazoline-2-thione</u>	<u>1,3-Oxathiole</u>
<u>Imidazo[1,5-a]pyrimidine</u>	<u>2H-1,2-Oxazine</u>
<u>1H-Indazole</u>	<u>2H-1,3-Oxazine</u>
<u>Indole</u>	<u>2H-1,4-Oxazine</u>
<u>3H-Indole</u>	<u>4H-1,2-Oxazine</u>
<u>Indoline</u>	<u>4H-1,4-Oxazine</u>
<u>Indoxazine</u>	<u>6H-1,2-Oxazine</u>
<u>Isobenzofuran</u>	<u>6H-1,3-Oxazine</u>
<u>Isochromen-3-one</u>	<u>1,2,5-Oxathiazine</u>
<u>Isocoumarin</u>	<u>1,2,6-Oxathiazine</u>
<u>1H-Isoindole</u>	<u>1,2,4-Oxadiazine</u>
<u>Isoquinoline</u>	<u>1,3,5-Oxadiazine</u>
<u>Isothiazole</u>	<u>Oxepin</u>
<u>Isoxazole</u>	
	<u>Phenazine</u>
<u>Morpholine</u>	<u>Phenothiazine</u>
	<u>Phthalazine</u>
	<u>Piperazine</u>
<u>1,5-Naphthyridine</u>	<u>Piperidine</u>
<u>1,6-Naphthyridine</u>	<u>Pteridine</u>
<u>1,7-Naphthyridine</u>	<u>Purine</u>
<u>1,8-Naphthyridine</u>	<u>2H-Pyran</u>
	<u>2H-Pyran-2-one</u>
<u>3H-1,2-Oxathiole</u>	<u>4H-Pyran-4-one</u>
<u>Oxazole</u>	<u>Pyranof[3,4-<i>b</i>]pyrrole</u>
<u>1,2-Oxazole</u>	<u>Pyrazine</u>
<u>1,3-Oxazole</u>	<u>Pyrazole</u>
<u>1,2,3-Oxadiazole</u>	<u>Pyrazolidine</u>
<u>1,2,4-Oxadiazole</u>	<u>2-Pyrazoline</u>
<u>1,2,5-Oxadiazole</u>	<u>Pyrazolo[1,5-<i>a</i>]pyrimidine</u>
<u>1,3,4-Oxadiazole</u>	<u>1H-Pyrazolo[3,4-<i>d</i>]pyrimidine</u>
<u>1,2,3,4-Oxatriazole</u>	<u>Pyridazine</u>
	<u>Pyridine</u>

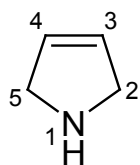
Pyrimidine	1,3,5-Trithiane
2-Pyrone	Thiepin
4-Pyrone	Thymine
Pyrrole	
2H-Pyrrole	
3H-Pyrrole	Uracil
Pyrrolidine	
2-Pyrroline	
3-Pyrroline	Xanthene
5H-pyrrolo[3,2-d]pyrimidine	Xanthine
7H-pyrrolo[2,3-d]pyrimidine	

[Quinazoline](#)
[Quinoline](#)
[4H-Quinolizine](#)
[Quinoxaline](#)
[Quinuclidine](#)

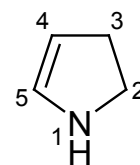
[Tetrahydrofuran](#)
[Tetrahydrothiophene](#)
[Thiophene](#)
[1,2,3-Triazole](#)
[1,2,4-Triazole](#)
[2-Thiazoline](#)
[Thiazole](#)
[1,3-Thiazole](#)
[1,2-Thiazole](#)
[1,3,4-Thiadiazole](#)
[1,3,5-Triazine](#)
[s-Triazine](#)
[1,2,4-Triazine](#)
[as-Triazine](#)
[1,2,3-Triazine](#)
[v-Triazine](#)
[Thiomorpholine](#)



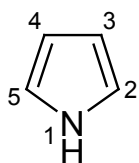
Pyrrolidine



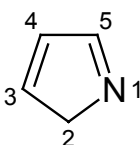
3-Pyrroline



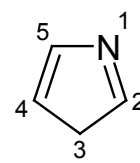
2-Pyrroline



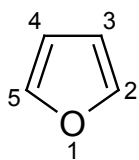
Pyrrole
(Azole)



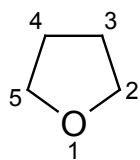
2*H*-Pyrrole
(2-Azole)



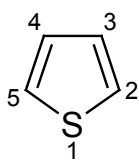
3*H*-Pyrrole
(3-Azole)



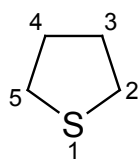
Furan



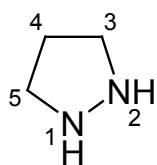
Tetrahydrofuran



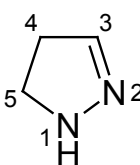
Thiophene



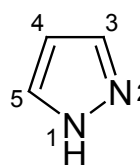
Tetrahydrothiophene



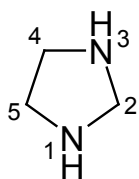
Pyrazolidine



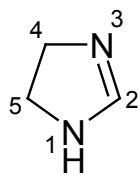
2-Pyrazoline



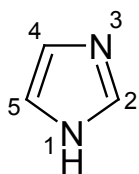
Pyrazole
(1,2-Diazole)



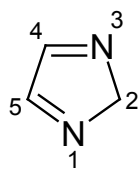
Imidazolidine



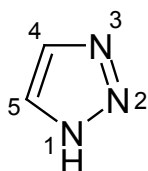
2-Imidazolidine



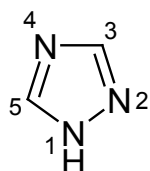
1*H*-Imidazole



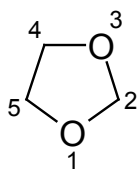
2*H*-Imidazole
(1,3-Diazole)



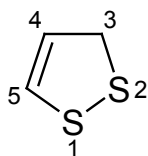
1,2,3-Triazole



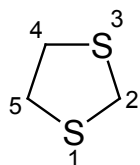
1,2,4-Triazole



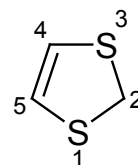
1,3-Dioxolane



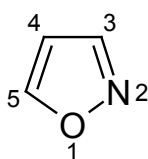
3*H*-1,2-Dithiole



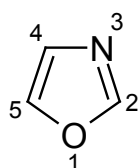
1,3-Dithiolane



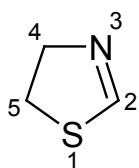
2*H*-1,3-Dithiole



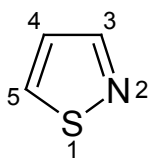
Isoxazole
(1,2-Oxazole)



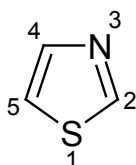
Oxazole
(1,3-Oxazole)



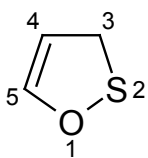
2-Thiazoline



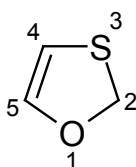
Isothiazole
(1,2-Thiazole)



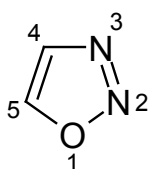
Thiazole
(1,3-Thiazole)



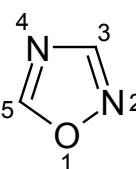
3H-1,2-Oxathiole



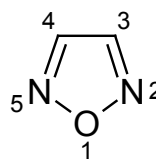
1,3-Oxathiole



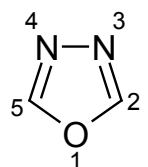
1,2,3-Oxadiazole



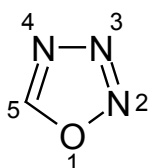
1,2,4-Oxadiazole



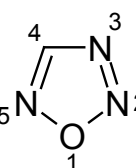
1,2,5-Oxadiazole
(Furazan)



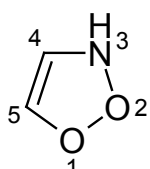
1,3,4-Oxadiazole



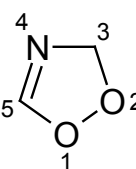
1,2,3,4-Oxatriazole



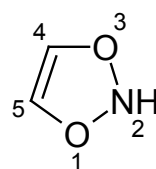
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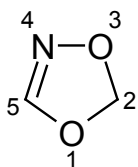
3H-1,2,3-Dioxazole



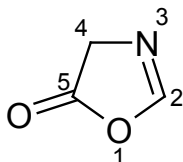
1,2,4-Dioxazole



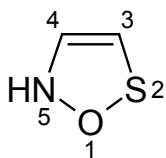
1,3,2-Dioxazole



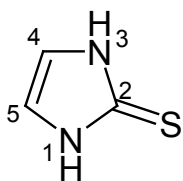
2H-1,3,4-Dioxazole



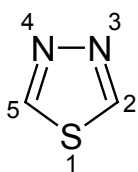
5-Oxazolone



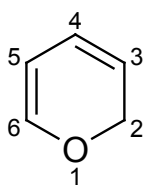
5H-1,2,5-Oxathiazole



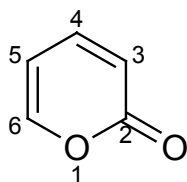
Imidazoline-2-thione



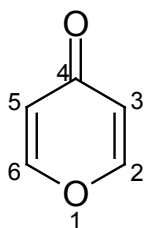
1,3,4-Thiadiazole



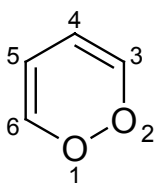
2H-Pyran



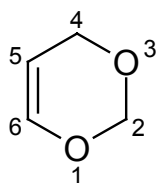
2H-Pyran-2-one
(2-Pyrone)



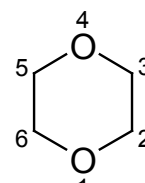
4H-Pyran-4-one
(4-Pyrone)



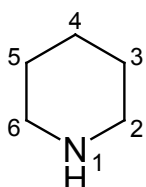
1,2-Dioxine



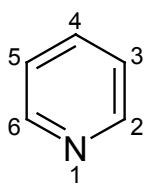
4H-1,3-Dioxine



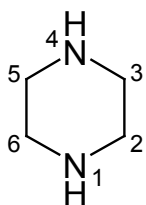
1,4-Dioxane



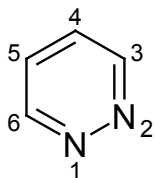
Piperidine



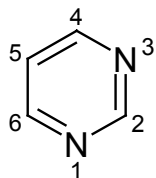
Pyridine



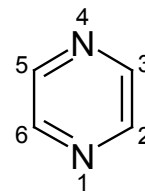
Piperazine



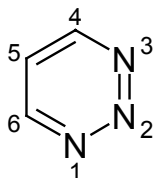
Pyridazine



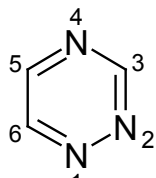
Pyrimidine



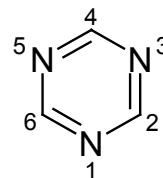
Pyrazine



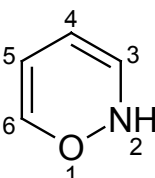
1,2,3-Triazine
(v-Triazine)



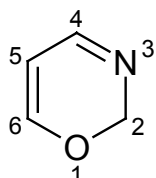
1,2,4-Triazine
(as-Triazine)



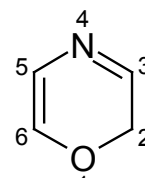
1,3,5-Triazine
(s-Triazine)



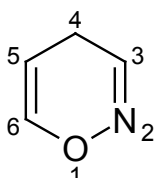
2H-1,2- Oxazine



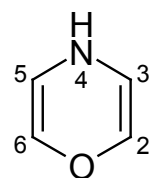
2H-1,3- Oxazine



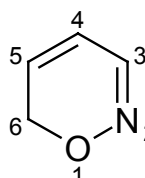
2H-1,4- Oxazine



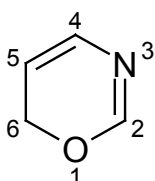
4H-1,2-Oxazine



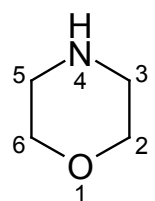
4H-1,4-Oxazine



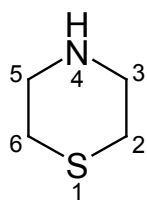
6H-1,2-Oxazine



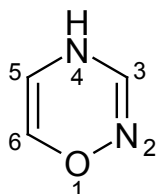
6H-1,3-Oxazine



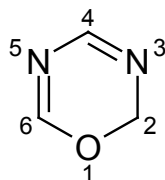
Morpholine



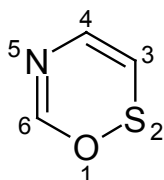
Thiomorpholine



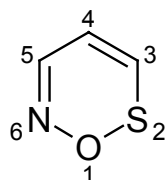
1,2,4-Oxadiazine



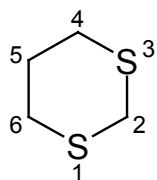
1,3,5-Oxadiazine



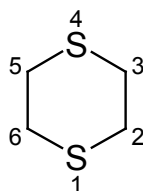
1,2,5-Oxathiazine



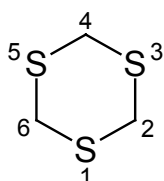
1,2,6-Oxathiazine



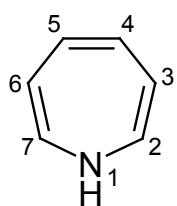
1,3-Dithiane



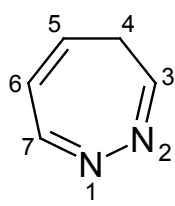
1,4-Dithiane



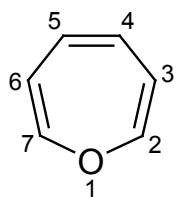
1,3,5-Trithiane



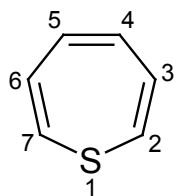
Azepine



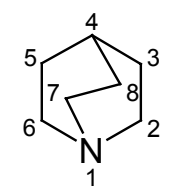
4H-1,2-Diazepine



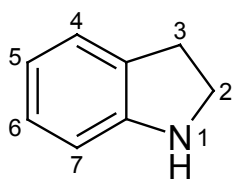
Oxepin



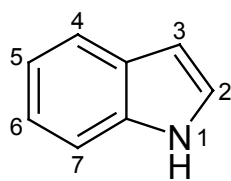
Thiepin



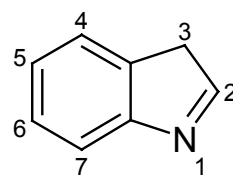
Quinuclidine



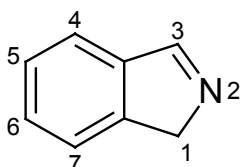
Indoline



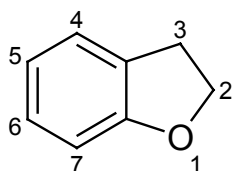
1*H*-Indole



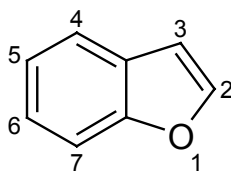
3*H*-Indole



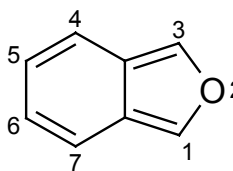
1*H*-Isoindole



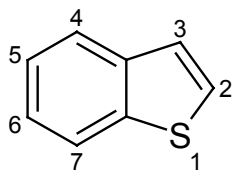
Coumaran



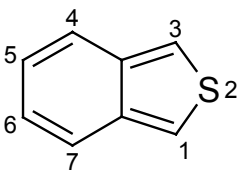
Benzofuran



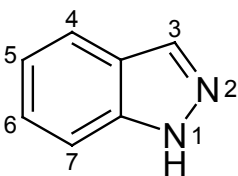
Benzo[*c*]furan



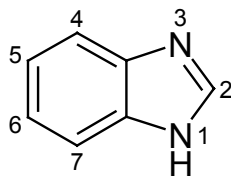
Benzo[*b*]thiophene



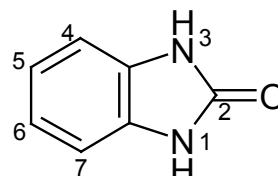
Benzo[*c*]thiophene



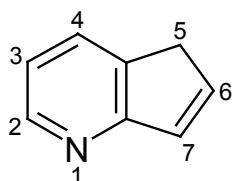
1*H*-Indazole



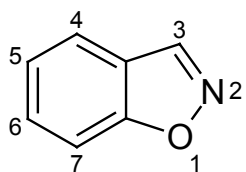
Benzimidazole



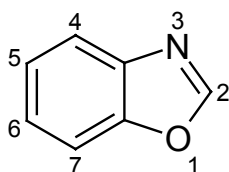
1,3-dihydro-2*H*-benzimidazol-2-one



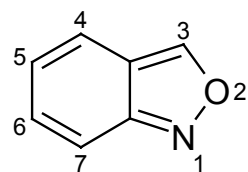
Cyclopenta[*b*]pyridine



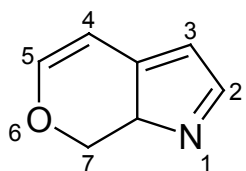
Benzisoxazole
(Indoxazine)



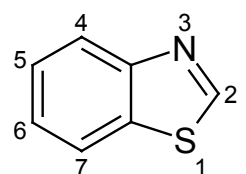
Benzoxazole



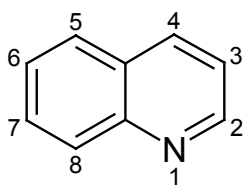
2,1-Benzisoxazole



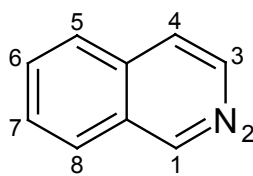
Pyrano[3,4-*b*]pyrrole



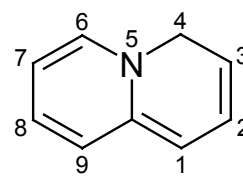
Benzothiazole



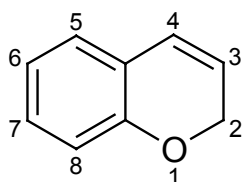
Quinoline



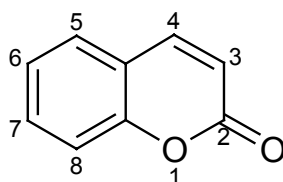
Isoquinoline



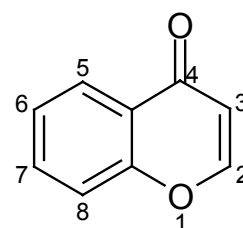
4H-Quinolizine



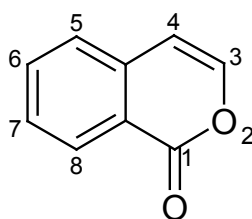
2H-1-Benzopyran
(2-Chromene)



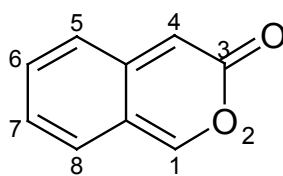
2H-1-Benzopyran-2-one
(Coumarin)



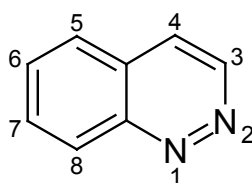
4H-1-Benzopyran-4-one
(Chromen-4-one)



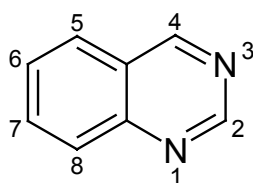
1H-2-Benzopyran-1-one
(Isocoumarin)



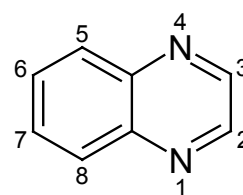
3H-2-Benzopyran-3-one
(Isochromen-3-one)



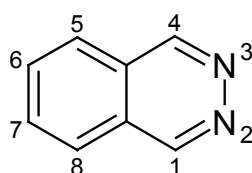
Cinnoline



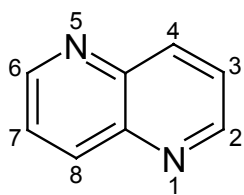
Quinazoline



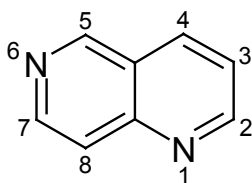
Quinoxaline



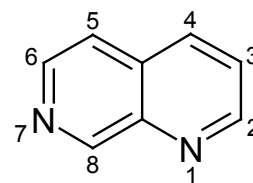
Phthalazine



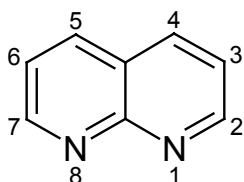
1,5-Naphthyridine



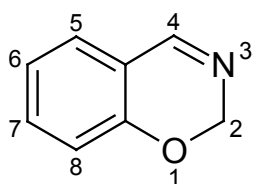
1,6-Naphthyridine



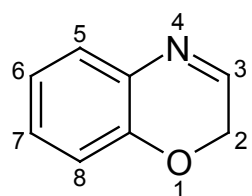
1,7-Naphthyridine



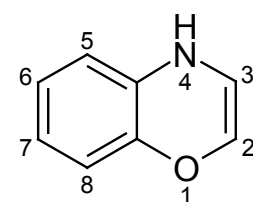
1,8-Naphthyridine



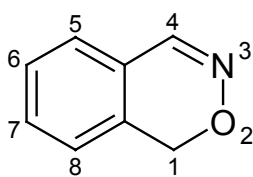
2H-1,3-Benzoxazine



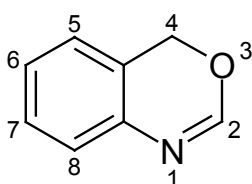
2H-1,4-Benzoxazine



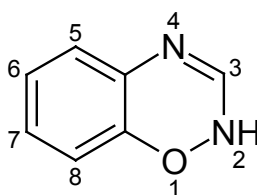
4H-1,4-Benzoxazine



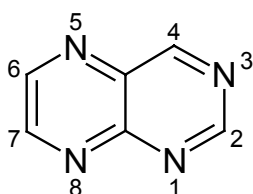
1H-2,3-Benzoxazine



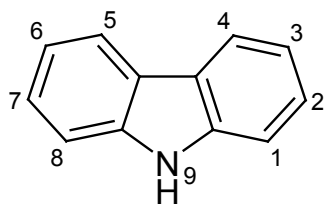
4H-3,1-Benzoxazine



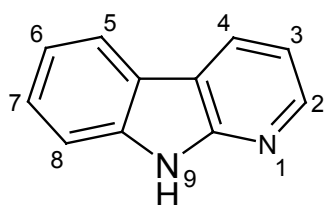
2H-1,2,4-benzoxadiazine



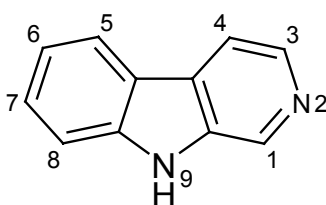
Pteridine



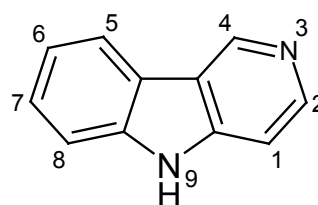
Carbazole



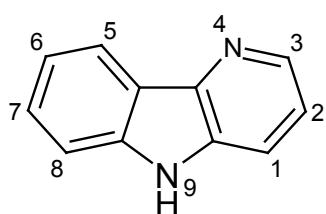
α -Carboline



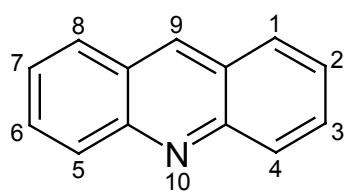
β -Carboline



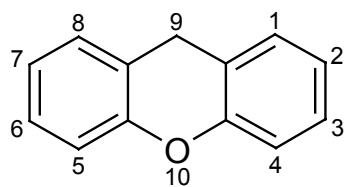
γ -Carboline



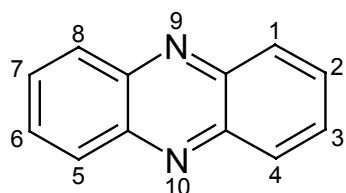
δ -Carboline



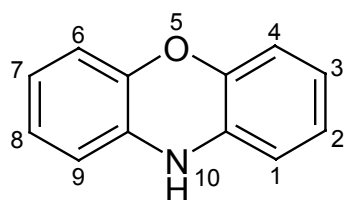
Acridine



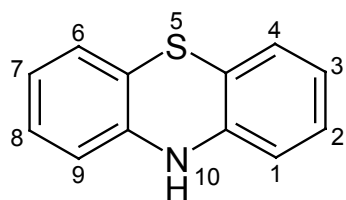
Xanthene



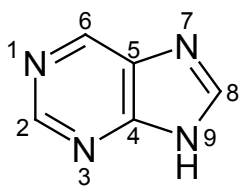
Phenazine



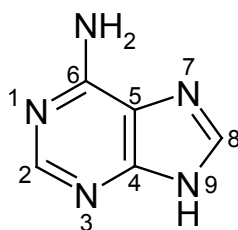
Phenoxazine



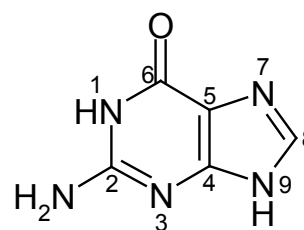
Phenothiazine



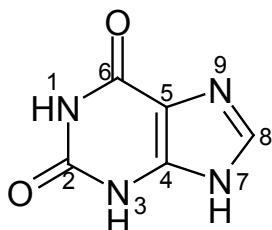
Purine



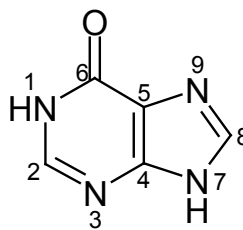
Adenine



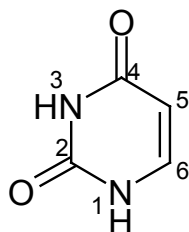
Guanine



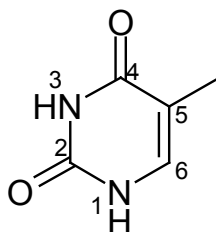
Xanthine



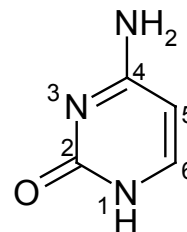
Hypoxanthine



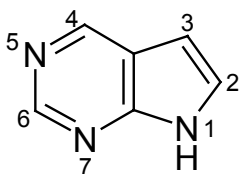
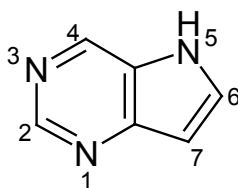
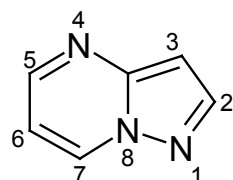
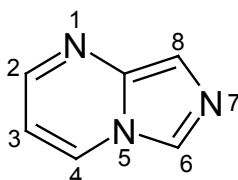
Uracil

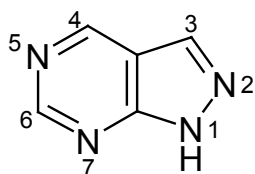


Thymine



Cytosine

7*H*-Pyrrolo[2,3-*d*]pyrimidine
(7-Deazapurine)5*H*-Pyrrolo[3,2-*d*]pyrimidine
(9-Deazapurine)Pyrazolo[1,5-*a*]pyrimidineImidazo[1,5-*a*]pyrimidine



1*H*-Pyrazolo[3,4-*d*]pyrimidine
(7-Deaza-8-azapurine)