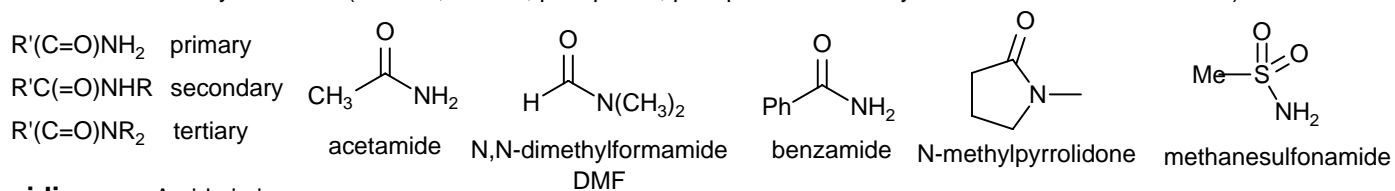
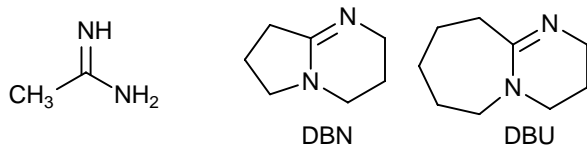


## Nitrogen-Containing Functional Groups

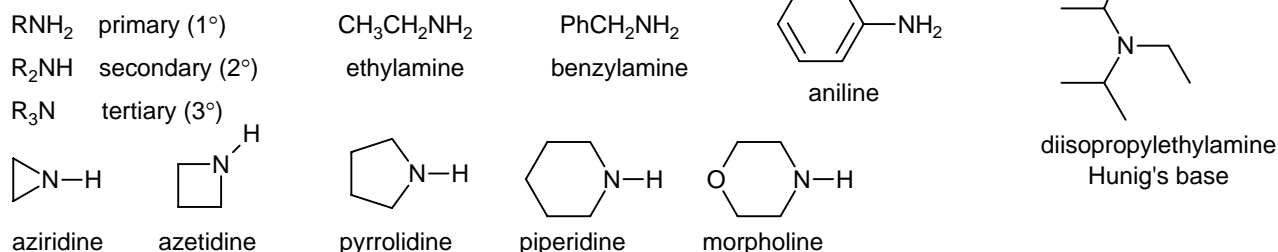
**Amides** Carboxylic amides (sulfonic, sulfinic, phosphoric, phosphonic and many other acids also form amides)



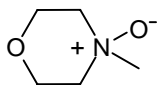
**Amidine** Amide imines



**Amines**

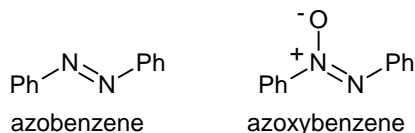


**Amine oxides**

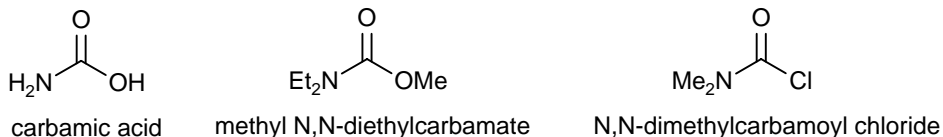


N-Methylmorpholine oxide

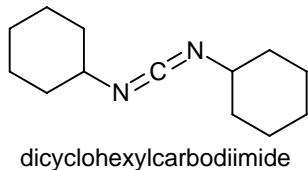
**Azo**



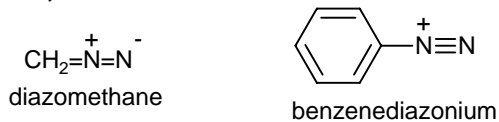
**Carbamates (urethanes)** (amides of carbonic acid)



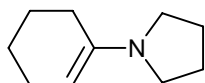
**Carbodiimides**



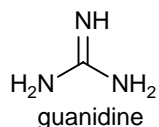
**Diazo, Diazonium**



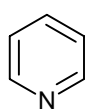
**Enamines**



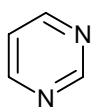
**Guanidine** Imines of ureas



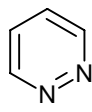
**Heterocycles - aromatic**



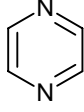
pyridine



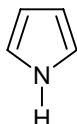
pyrimidine



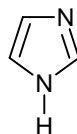
pyridazine



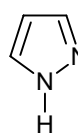
pyrazine



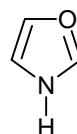
pyrrole



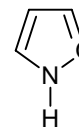
imidazole



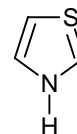
pyrazole



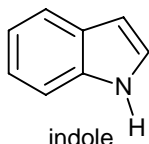
oxazole



isoxazole



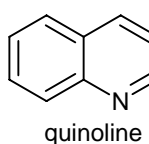
thiazole



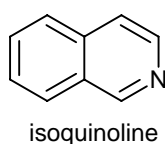
indole



indolizine

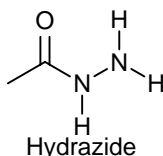
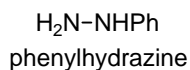
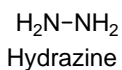


quinoline



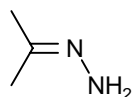
isoquinoline

**Hydrazines**

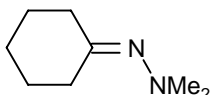


**Hydrazones**

N-amino imines - imines of hydrazines



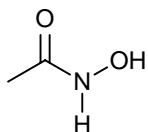
acetone hydrazone



cyclohexanone N,N-dimethylhydrazone

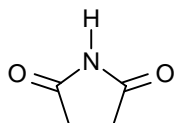
**Hydroxamic Acids**

Amides of hydroxylamine



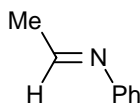
**Imides**

Bis-N-acylamines

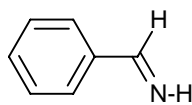


succinimide

**Imines (Schiff bases)**

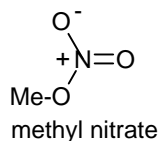
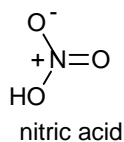


N-phenylethanamine  
acetaldehyde N-phenylimine

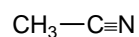


benzaldehyde N-phenylimine

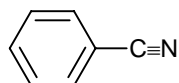
**Nitrates** (esters of nitric acid)



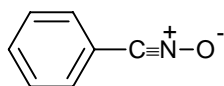
## Nitriles (cyanides)



acetonitrile

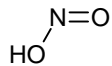


benzonitrile

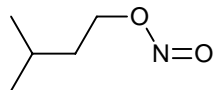


benzonitrile oxide

## Nitrites (esters of nitrous acid)

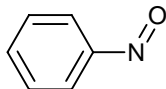


nitrous acid

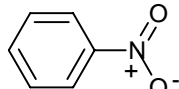


isoamyl nitrite

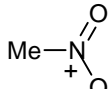
## Nitro/Nitroso



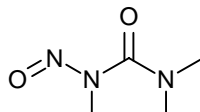
nitrosobenzene



nitrobenzene

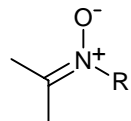


nitromethane

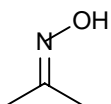


N-nitrosourea

## Nitrone Imine N-oxides

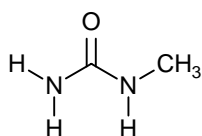


## Oximes Imines of hydroxylamine

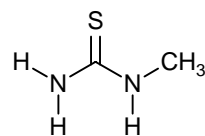


acetoxime

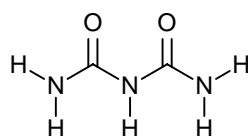
## Urea Bisamides of carbonic acid



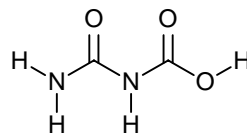
N-methylurea



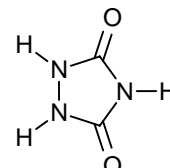
N-methylthiourea



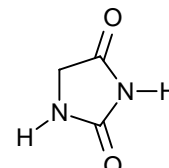
biuret



allophanic acid



Urazole



Hydantoin