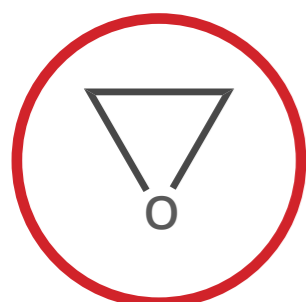


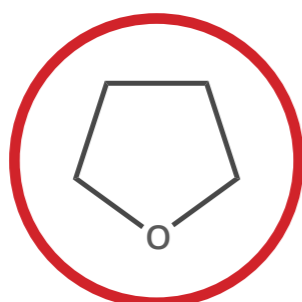
HETEROCYCLES IN ORGANIC CHEMISTRY

A HETEROCYCLE IN ORGANIC CHEMISTRY IS A RING OF CONNECTED ATOMS, WHERE ONE OR MORE OF THE ATOMS IN THE RING ARE ELEMENTS DIFFERENT FROM CARBON. HETEROCYCLES WITH OXYGEN, NITROGEN, AND SULFUR ARE THE MOST PREVALENT; SELENIUM, BORON, SILICON, ARSENIC & PHOSPHORUS CAN ALSO BE INCORPORATED.

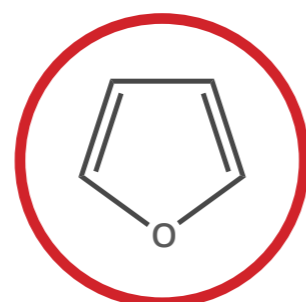
 OXYGEN-BASED HETEROCYCLES  NITROGEN-BASED HETEROCYCLES  SULFUR-BASED HETEROCYCLES  MULTIPLE HETEROATOM HETEROCYCLES



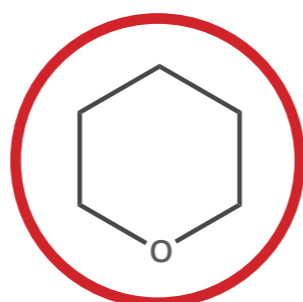
ETHYLENE OXIDE
Oxirane
 C_2H_4O



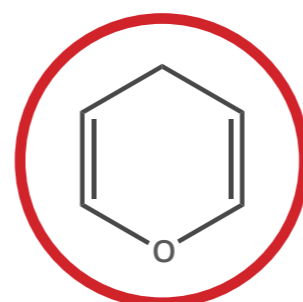
TETRAHYDROFURAN
Oxolane
 C_4H_8O



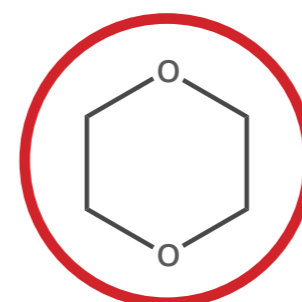
FURAN
Oxole
 C_4H_4O



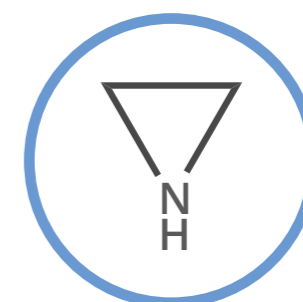
TETRAHYDROPYRAN
Oxane
 $C_5H_{10}O$



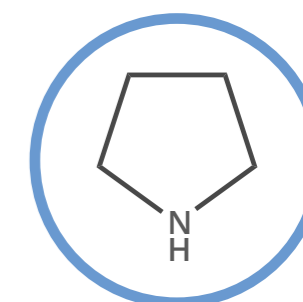
4H-PYRAN
4H-Oxine
 C_5H_6O



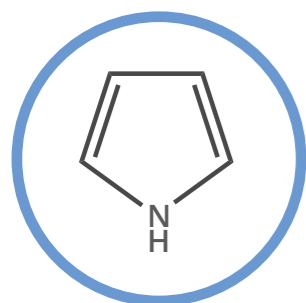
1,4-DIOXANE
p-Dioxane
 $C_4H_8O_2$



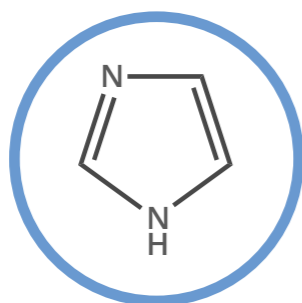
ETHYLENE IMINE
Aziridine
 C_2H_5N



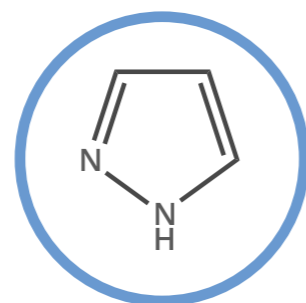
PYRROLIDINE
Azolidine
 C_4H_9N



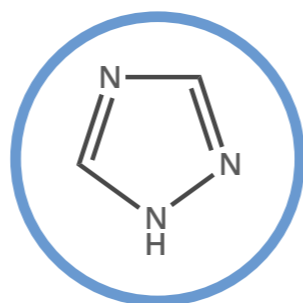
PYRROLE
Azole
 C_4H_5N



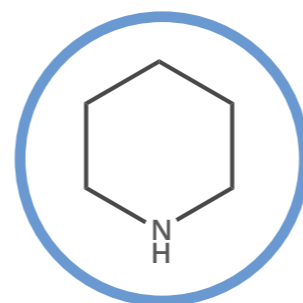
IMIDAZOLE
1,3-diazole
 $C_3H_4N_2$



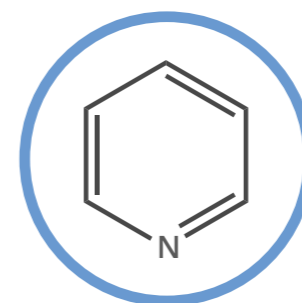
PYRAZOLE
1,2-diazole
 $C_3H_4N_2$



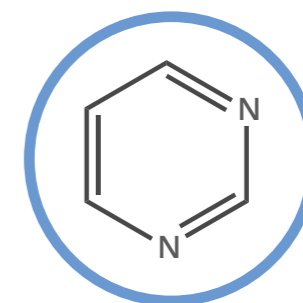
TRIAZOLE
1,2,4-triazole
 $C_2H_3N_3$



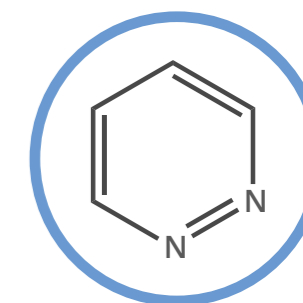
PIPERIDINE
Azinane
 $C_5H_{11}N$



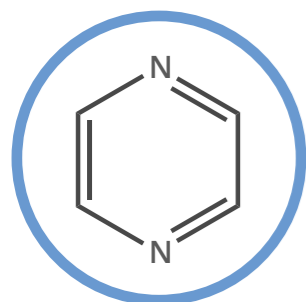
PYRIDINE
Azine
 C_5H_5N



PYRIMIDINE
1,3-diazine
 $C_4H_4N_2$



PYRIDAZINE
1,2-diazine
 $C_4H_4N_2$



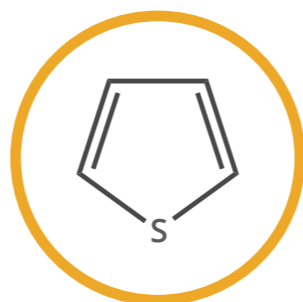
PYRAZINE
1,4-diazine
 $C_4H_4N_2$



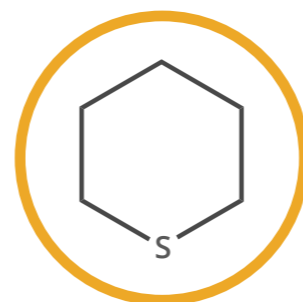
ETHYLENE SULFIDE
Thiirane
 C_2H_4S



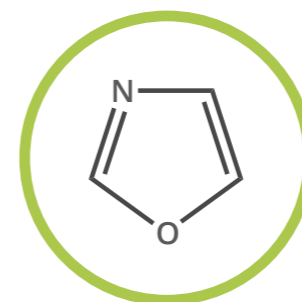
TETRAHYDROTHIOPHENE
Thiolane
 C_4H_8S



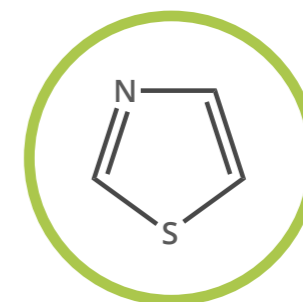
THIOPHENE
Thiole
 C_4H_4S



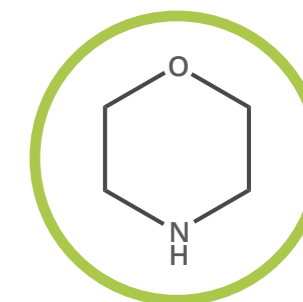
TETRAHYDROTHIOPYRAN
Thiane
 $C_5H_{10}S$



OXAZOLE
1,3-oxazole
 C_3H_3NO



THIAZOLE
1,3-thiazole
 C_3H_3NS



MORPHOLINE
Tetrahydro-1,4-oxazine
 C_4H_9NO