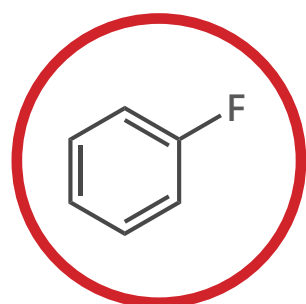


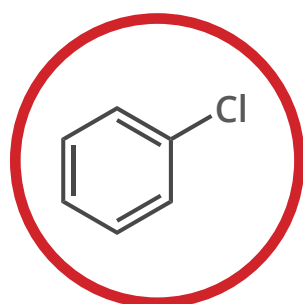
BENZENE DERIVATIVES IN ORGANIC CHEMISTRY

A WIDE VARIETY OF IMPORTANT ORGANIC COMPOUNDS ARE DERIVED FROM BENZENE, BY REPLACING ONE OF THE HYDROGENS WITH A DIFFERENT FUNCTIONAL GROUP. THEY CAN HAVE BOTH COMMON & SYSTEMATIC NAMES, WHICH CAN BE CONFUSING; HERE, COMMON NAMES ARE SHOWN PRIMARILY, WITH SYSTEMATIC NAMES SHOWN IN ITALICS.

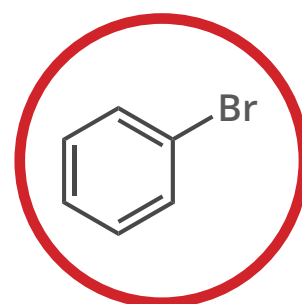
● HALOGEN-CONTAINING ● HYDROCARBON DERIVATIVES ● OXYGEN-CONTAINING ● NITROGEN-CONTAINING ● SULFUR-CONTAINING ● POLYAROMATICS



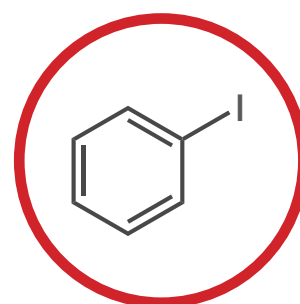
FLUOROBENZENE
Fluorobenzene
 C_6H_5F



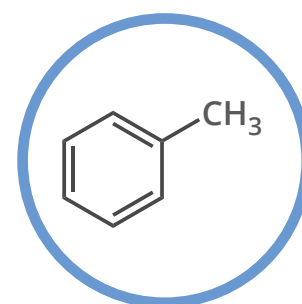
CHLOROBENZENE
Chlorobenzene
 C_6H_5Cl



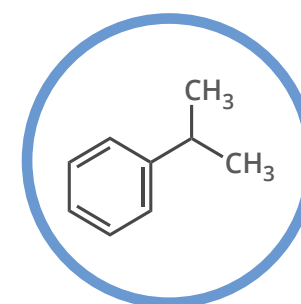
BROMOBENZENE
Bromobenzene
 C_6H_5Br



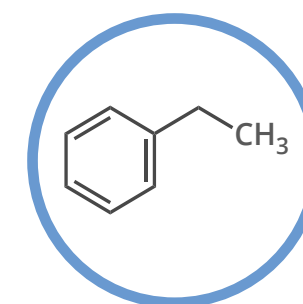
IODOBENZENE
Iodobenzene
 C_6H_5I



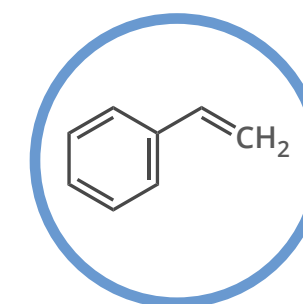
TOLUENE
Methylbenzene
 C_7H_8



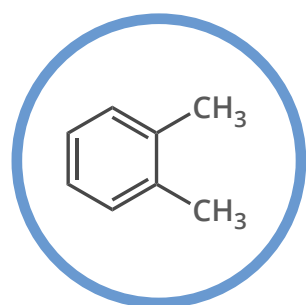
CUMENE
Isopropylbenzene
 C_9H_{12}



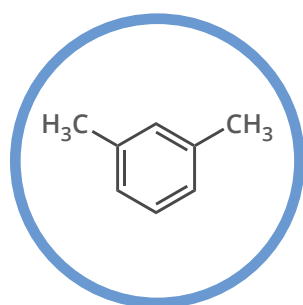
ETHYLBENZENE
Ethylbenzene
 C_8H_{10}



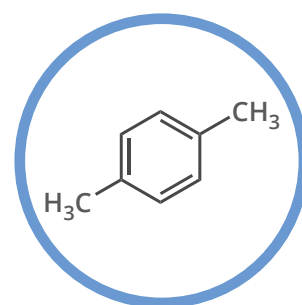
STYRENE
Vinylbenzene
 C_8H_8



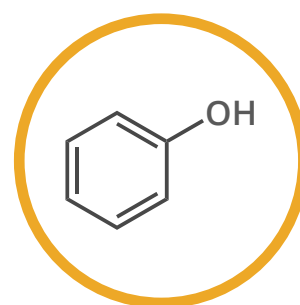
ORTHO-XYLENE
1,2-dimethylbenzene
 C_8H_{10}



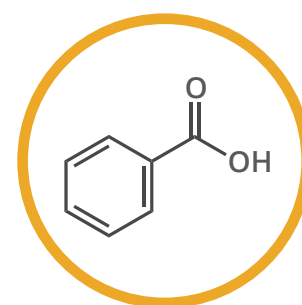
META-XYLENE
1,3-dimethylbenzene
 C_8H_{10}



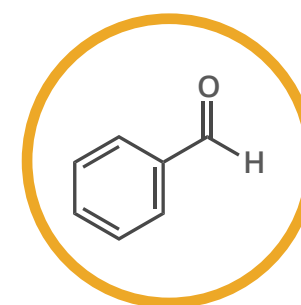
PARA-XYLENE
1,4-dimethylbenzene
 C_8H_{10}



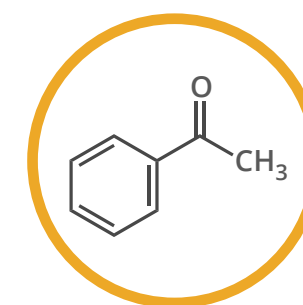
PHENOL
Hydroxybenzene
 C_6H_5OH



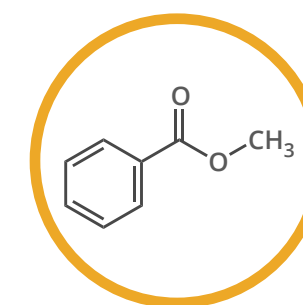
BENZOIC ACID
Benzenecarboxylic Acid
 C_6H_5COOH



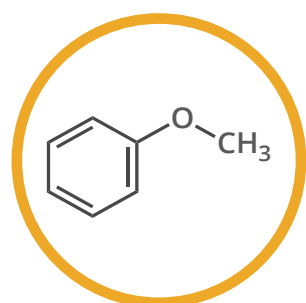
BENZALDEHYDE
Benzenecarbaldehyde
 C_6H_5CHO



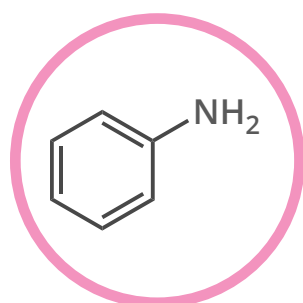
ACETOPHENONE
1-phenylethanone
 $C_6H_5COCH_3$



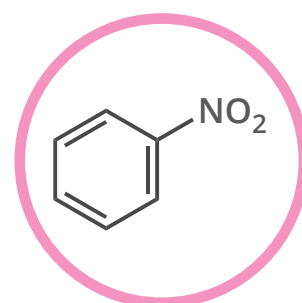
METHYL BENZOATE
Methyl Benzoate
 $C_8H_8O_2$



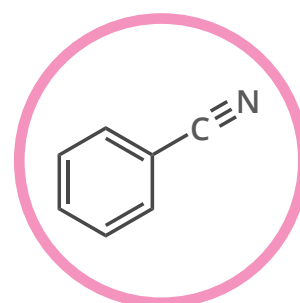
ANISOLE
Methoxybenzene
 $C_6H_5OCH_3$



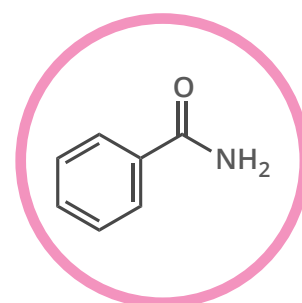
ANILINE
Aminobenzene
 $C_6H_5NH_2$



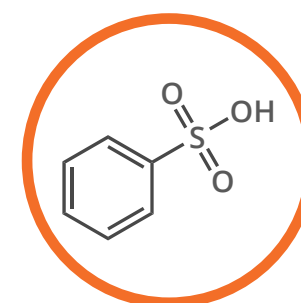
NITROBENZENE
Nitrobenzene
 $C_6H_5NO_2$



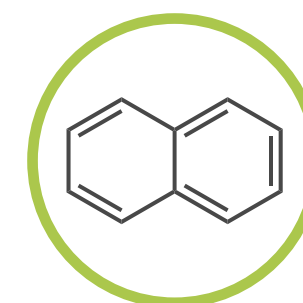
BENZONITRILE
Benzonitrile
 C_6H_5CN



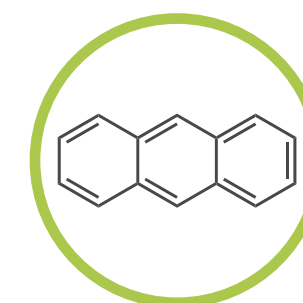
BENZAMIDE
Benzamide
 $C_6H_5CONH_2$



BENZENESULFONIC ACID
Benzenesulfonic Acid
 $C_6H_5SO_3H$



NAPHTHALENE
Naphthalene
 $C_{10}H_8$



ANTHRACENE
Anthracene
 $C_{14}H_{10}$