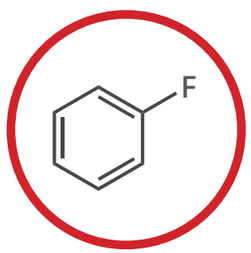
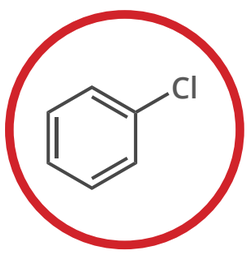
BENZENE DERIVATIVES IN ORGANIC CHEMISTRY

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.

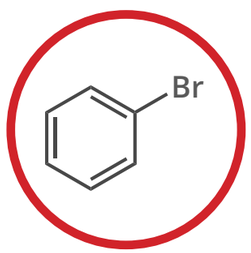
HALOGEN-CONTAINING | HYDROCARBON DERIVATIVES | OXYGEN-CONTAINING | NITROGEN-CONTAINING | SULFUR-CONTAINING | POLYAROMATICS



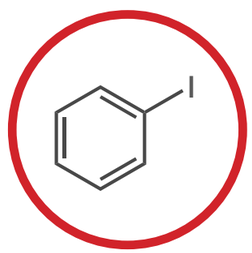
FLUOROBENZENE
Fluorobenzene
C_6H_5F



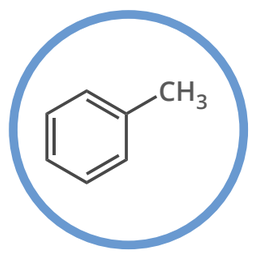
CHLOROBENZENE
Chlorobenzene
C_6H_5Cl



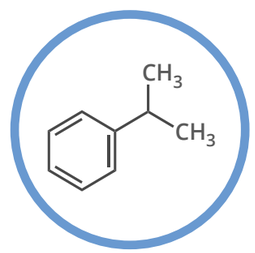
BROMOBENZENE
Bromobenzene
C_6H_5Br



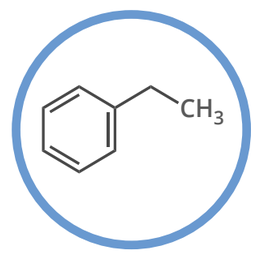
IODOBENZENE
Iodobenzene
C_6H_5I



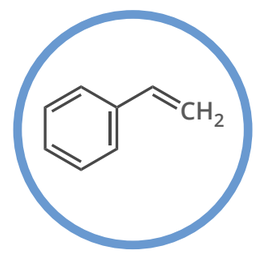
TOLUENE
Methylbenzene
C_7H_8



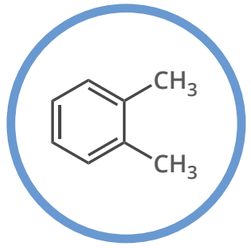
CUMENE
Isopropylbenzene
C_9H_{12}



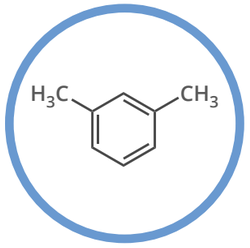
ETHYLBENZENE
Ethylbenzene
C_8H_{10}



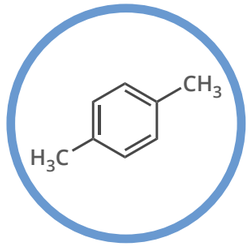
STYRENE
Vinylbenzene
C_8H_8



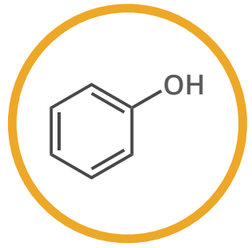
ORTHO-XYLENE
1,2-dimethylbenzene
C_8H_{10}



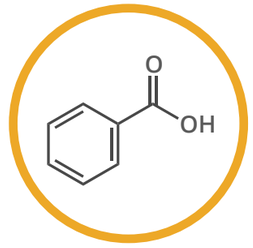
META-XYLENE
1,3-dimethylbenzene
C_8H_{10}



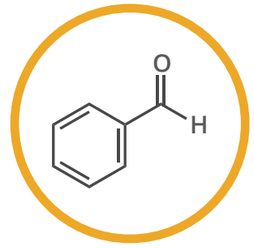
PARA-XYLENE
1,4-dimethylbenzene
C_8H_{10}



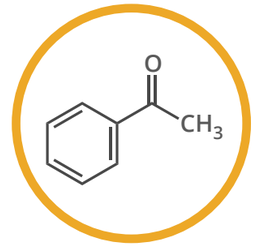
PHENOL
Hydroxybenzene
C_6H_5OH



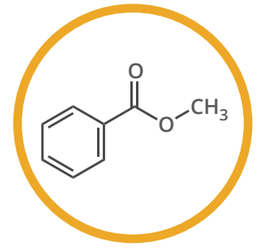
BENZOIC ACID
Benzenecarboxylic Acid
C_6H_5COOH



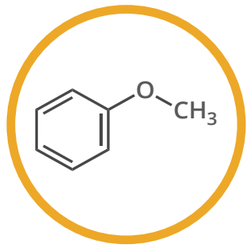
BENZALDEHYDE
Benzenecarbaldehyde
C_6H_5CHO



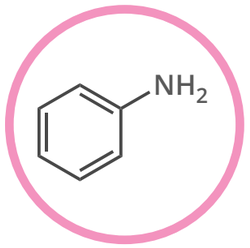
ACETOPHENONE
1-phenylethanone
$C_6H_5COCH_3$



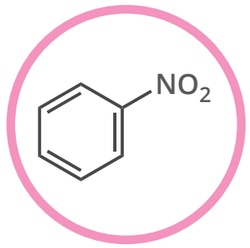
METHYL BENZOATE
Methyl Benzoate
$C_8H_8O_2$



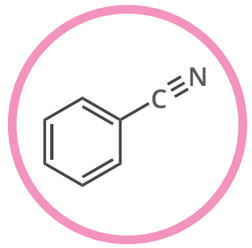
ANISOLE
Methoxybenzene
$C_6H_5OCH_3$



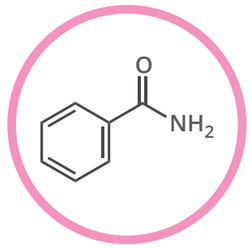
ANILINE
Aminobenzene
$C_6H_5NH_2$



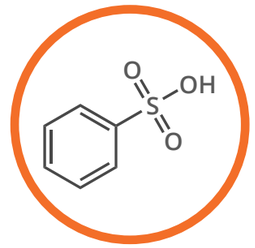
NITROBENZENE
Nitrobenzene
$C_6H_5NO_2$



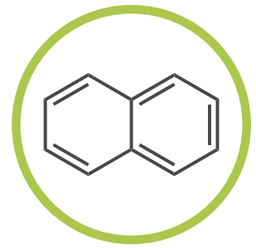
BENZONITRILE
Benzonitrile
C_6H_5CN



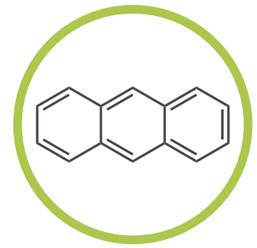
BENZAMIDE
Benzamide
$C_6H_5CONH_2$



BENZENESULFONIC ACID
Benzenesulfonic Acid
$C_6H_5SO_3H$



NAPHTHALENE
Naphthalene
$C_{10}H_8$



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