

# FUNCTIONAL GROUPS IN ORGANIC CHEMISTRY

Functional groups are the characteristic groups in organic molecules that give them their reactivity. In the formulae below, R represents the rest of the molecule and X represents any halogen atom.

● Hydrocarbons   
 ● Halogen-containing groups   
 ● Oxygen-containing groups   
 ● Nitrogen-containing groups   
 ● Sulfur-containing groups   
 ● Phosphorus-containing groups



**ALKANE**

Naming: -ane  
e.g. ethane



**ALKENE**

Naming: -ene  
e.g. ethene



**ALKYNE**

Naming: -yne  
e.g. ethyne



**ARENE**

Naming: -yl benzene  
e.g. ethylbenzene



**R-X**

**HALOALKANE**

Naming: halo-  
e.g. chloroethane



**R-OH**

**ALCOHOL**

Naming: -ol  
e.g. ethanol



**ALDEHYDE**

Naming: -al  
e.g. ethanal



**KETONE**

Naming: -one  
e.g. propanone



**CARBOXYLIC ACID**

Naming: -oic acid  
e.g. ethanoic acid



**ACID ANHYDRIDE**

Naming: -oic anhydride  
e.g. ethanoic anhydride



**ACYL HALIDE**

Naming: -oyl halide  
e.g. ethanoyl chloride



**ESTER**

Naming: -oate  
e.g. ethylacetate



**ETHER**

Naming: -oxy-  
e.g. methylmethoxy



**EPOXIDE**

Naming: -epoxide  
e.g. ethylene oxide



**AMINE**

Naming: -amine  
e.g. ethanamine



**AMIDE**

Naming: -amide  
e.g. ethanamide



**NITRATE**

Naming: -yl nitrate  
e.g. ethyl nitrate



**NITRITE**

Naming: -nitrite  
e.g. ethyl nitrite



**R-CN**

**NITRILE**

Naming: -nitrile  
e.g. ethanenitrile



**NITRO**

Naming: -nitro  
e.g. nitromethane



**NITROSO**

Naming: -nitroso  
e.g. nitrosobenzene



**IMINE**

Naming: -imine  
e.g. ethanimine



**IMIDE**

Naming: -imide  
e.g. succinimide



**AZIDE**

Naming: -yl azide  
e.g. phenyl azide



**CYANATE**

Naming: -yl cyanate  
e.g. methyl cyanate



**ISOCYANATE**

Naming: -yl isocyanate  
e.g. methyl isocyanate



**AZO COMPOUND**

Naming: -azo-  
e.g. azobenzene



**R-SH**

**THIOL**

Naming: -thiol  
e.g. methanethiol



**SULFIDE**

Naming: -sulfide  
e.g. dimethyl sulfide



**DISULFIDE**

Naming: -disulfide  
e.g. dimethyl disulfide



**SULFOXIDE**

Naming: -sulfoxide  
e.g. dimethyl sulfoxide



**SULFONE**

Naming: -sulfone  
e.g. dimethyl sulfone



**SULFINIC ACID**

Naming: -sulfinic acid  
e.g. benzenesulfinic acid



**SULFONIC ACID**

Naming: -sulfonic acid  
e.g. benzenesulfonic acid



**SULFONATE ESTER**

Naming: -yl sulfonate  
e.g. methylbenzenesulfonate



**THIOCYANATE**

Naming: -thiocyanate  
e.g. ethylthiocyanate



**ISOTHIOCYANATE**

Naming: -isothiocyanate  
e.g. ethylisothiocyanate



**THIAL**

Naming: -thial  
e.g. ethanethial



**THIOCARBONYL**

Naming: -thione  
e.g. propionethione



**PHOSPHINE**

Naming: -phosphine  
e.g. methylphosphine



# Functional Groups In Organic Compounds

**M Tight**



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