

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 benzenes
e.g. ethylbenzene



HALOALKANE

Naming: halo-
e.g. chloroethane



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. ethylpropanoate



ETHER

Naming: -oxy
e.g. methylpropane



EPOXIDE

Naming: -ene oxide
e.g. ethene oxide



AMINE

Naming: -amine
e.g. ethanamine



AMIDE

Naming: -amide
e.g. ethanamide



NITRATE

Naming: -yl nitrate
e.g. ethyl nitrate



NITRITE

Naming: -yl nitrite
e.g. ethyl nitrite



NITRILE

Naming: -nitrile
e.g. ethanenitrile



NITRO

Naming: nitro-
e.g. nitromethane



NITROS

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



THIOL

Naming: -thiol
e.g. methanethiol



SULFIDE

Naming: -sulfide
e.g. dimethyl sulfide



DISULFIDE

Naming: -disulfide
e.g. dimethyl disulfide



SULFOXIDE

Naming: -sulfide
e.g. dimethyl sulfoxide



SULFONE

Naming: -sulfone
e.g. dimethyl sulfone



SULFINIC ACID

Naming: -sulfinic acid
e.g. benzenesulfonic 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. ethyl isothiocyanate



THIAL

Naming: -thiol
e.g. ethanethiol



THIOESTER

Naming: -thioate
e.g. propanethioate



PHOSPHINE

Naming: -phosphine
e.g. methylphosphine



Pogil Functional Groups On Organic Molecules

**Juliette Lantz, Renée Cole, The POGIL
Project**



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