

TABLE FOR IUPAC NOMENCLATURE

The order of priority of functional groups used in IUPAC nomenclature of organic compounds.

Functional group	Structure	Prefix	Suffix
Carboxylic acid	$\begin{array}{c} \text{O} \\ \parallel \\ -\text{C}-\text{OH} \end{array}$	Carboxy	- oic acid
Sulphonic acid	$-\text{SO}_3\text{H}$	Sulpho	sulphonic acid
Anhydride	$\begin{array}{c} \text{O} \quad \text{O} \\ \parallel \quad \parallel \\ -\text{C} \quad \text{C}- \\ \backslash \quad / \\ \text{O} \end{array}$	×	oic-anhydride
Ester	$\begin{array}{c} \text{O} \\ \parallel \\ -\text{C}-\text{OR} \end{array}$	Alkoxy carbonyl or Carbalkoxy	alkyl....oate
Acid chloride	$\begin{array}{c} \text{O} \\ \parallel \\ -\text{C}-\text{Cl} \end{array}$	Chloroformyl or Chlorocarbonyl	- oyl chloride
Acid amide	$\begin{array}{c} \text{O} \\ \parallel \\ -\text{C}-\text{NH}_2 \end{array}$	Carbamoyl/ Amido	- amide
Carbonitrile/Cyanide	$-\text{C} \equiv \text{N}$	Cyano	nitrile
Aldehyde	$\begin{array}{c} \text{O} \\ \parallel \\ -\text{C}-\text{H} \end{array}$	Formyl or Oxo	- al
Ketone	$\begin{array}{c} \text{O} \\ \parallel \\ -\text{C}- \end{array}$	Keto or oxo	- one
Alcohol	$-\text{OH}$	Hydroxy	- ol
Thio alcohol	$-\text{SH}$	Mercapto	thiol
Amine	$-\text{NH}_2$	Amino	amine
Ether	$-\text{O}-\text{R}$	Alkoxy	—
Oxirane	$\begin{array}{c} \text{C} - \text{C} \\ \backslash \quad / \\ \text{O} \end{array}$	Epoxy	—
Nitro derivative	$-\text{NO}_2$	Nitro	—
Nitroso derivative	$-\text{NO}$	Nitroso	—
Halide	$-\text{X}$	Halo	—
Double bond	$\text{C} = \text{C}$	—	ene
Triple bond	$\text{C} \equiv \text{C}$	—	yne