

**Priority table of functional groups of organic chemistry**
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Formula	Function	Suffix (main function)	Prefix (secondary function)	Example
$\begin{array}{c} \text{O} \\    \\ \text{R}-\text{C}-\text{OH} \end{array}$	Acid	-oic acid	carboxyl-	CH <sub>3</sub> -COOH Ethanoic acid
$\begin{array}{c} \text{O} \\    \\ \text{R}-\text{C}-\text{O}-\text{R}' \end{array}$	Ester	-yl -oate		CH <sub>3</sub> -COO-CH <sub>3</sub> Methyl ethanoate
$\begin{array}{c} \text{O} \\    \\ \text{R}-\text{C}-\text{NH}_2 \end{array}$	Amide	-amide	carboxamido-	CH <sub>3</sub> -CH <sub>2</sub> -CONH <sub>2</sub> Propanamide
$\text{R}-\text{C}\equiv\text{N}$	Nitrile	-nitrile (cyanide)	cyano-	CH <sub>3</sub> -CN Ethanenitrile Methyl cyanide
$\begin{array}{c} \text{O} \\    \\ \text{R}-\text{C}-\text{H} \end{array}$	Aldehyde	-al	oxo-	CH <sub>3</sub> -CH <sub>2</sub> -CHO Propanal
$\begin{array}{c} \text{O} \\    \\ \text{R}-\text{C}-\text{R}' \end{array}$	Ketone	-one	oxo-	CH <sub>3</sub> -CO-CH <sub>3</sub> Propanone
$\text{R}-\text{OH}$	Alcohol	-ol	hydroxi-	CH <sub>3</sub> -CH <sub>2</sub> OH Ethanol
$\text{R}-\text{NH}_2$	Amine	-amine	amino-	CH <sub>3</sub> -CH <sub>2</sub> -NH <sub>2</sub> Ethylamine
$\text{R}-\text{O}-\text{R}'$	Ether	-yl ...yleter	oxa-	CH <sub>3</sub> -O-CH <sub>2</sub> -CH <sub>3</sub> Ethylmethyleter
$\diagdown \text{C}=\text{C} \diagup$	Alkene	-ene		CH <sub>3</sub> -CH=CH <sub>2</sub> Propene
$-\text{C}\equiv\text{C}-$	Alkyne	-yne		CH <sub>3</sub> -C≡CH Propyne
$\text{R}-\text{NO}_2$	Nitro		nitro-	CH <sub>3</sub> -CH <sub>2</sub> -NO <sub>2</sub> Nitroethane
$\text{R}-\text{X}$	Halide		fluoro-, chloro-, bromo-, iodo-	CH <sub>3</sub> -CH <sub>2</sub> Br Bromoethane
$-\text{R}$	Radical		yl-	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3-\text{CH}-\text{CH}_3 \end{array}$ Methylpropane