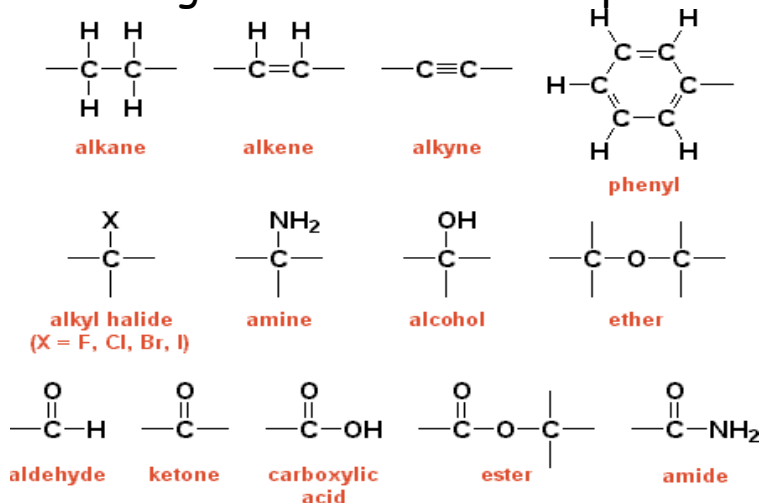


Organic Functional Groups



Homologous Group	Structural Characteristic	Naming Rule
Alkane	$\begin{array}{c} \text{H}_2 \\ \\ \text{H}_3\text{C}-\text{C}-\text{C}-\text{CH}_3 \\ \quad \\ \text{H}_2 \end{array}$	Suffix: ane
Alkene	$\begin{array}{c} \text{H} \\ \\ \text{H}_3\text{C}-\text{C}=\text{C}-\text{CH}_3 \\ \quad \\ \text{H} \end{array}$	Suffix: ene
Alkyne	$\text{H}_3\text{C}-\text{C}\equiv\text{C}-\text{CH}_3$	Suffix: yne
Alkyl Branch	$\begin{array}{c} \text{H}_2 \\ \\ \text{H}_3\text{C}-\text{C}-\text{C}- \\ \quad \\ \text{H}_2 \end{array}$	Suffix: yl
Alcohol	$\begin{array}{c} \text{H}_2 \\ \\ \text{H}_3\text{C}-\text{C}-\text{C}-\text{OH} \\ \quad \\ \text{H}_2 \end{array}$	Suffix: anol
Aldehyde	$\begin{array}{c} \text{H}_2 \\ \\ \text{H}_3\text{C}-\text{C}-\text{C}-\text{H} \\ \\ \text{O} \end{array}$	Suffix: anal
Ketone	$\begin{array}{c} \text{H}_2 \\ \\ \text{H}_3\text{C}-\text{C}-\text{C}-\text{CH}_3 \\ \\ \text{O} \end{array}$	Suffix: anone
Carboxylic Acid	$\begin{array}{c} \text{H}_2 \\ \\ \text{H}_3\text{C}-\text{C}-\text{C}-\text{OH} \\ \\ \text{O} \end{array}$	Suffix: anic acid
Ether	$\begin{array}{c} \text{H}_2 \\ \\ \text{H}_3\text{C}-\text{C}-\text{O}-\text{CH}_3 \end{array}$	Branches + ether
Ester	$\begin{array}{c} \text{H}_2 \\ \\ \text{H}_3\text{C}-\text{C}-\text{O}-\text{CH}_3 \\ \\ \text{O} \end{array}$	Branch + Root + anoate
Amine	$\begin{array}{c} \text{H}_2 \\ \\ \text{H}_3\text{C}-\text{C}-\text{N}-\text{CH}_3 \\ \\ \text{H} \end{array}$	Branches + amine
Amide	$\begin{array}{c} \text{H}_2 \\ \\ \text{H}_3\text{C}-\text{C}-\text{C}-\text{NH}_2 \\ \\ \text{O} \end{array}$	Acid - anic acid + amide
Alkyl Halide	$\begin{array}{c} \text{H}_2 \\ \\ \text{H}_3\text{C}-\text{C}-\text{C}-\text{CH}_3 \\ \\ \text{Cl} \end{array}$	Halide + root 2-chlorobutane
Acid Anhydride	$\begin{array}{c} \text{O} \quad \text{O} \\ \quad \\ \text{H}_3\text{C}-\text{C}-\text{O}-\text{C}-\text{CH}_3 \end{array}$	Acid name - acid + anhydride