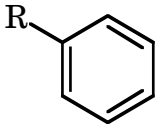


## Common Functional Groups in Biological Molecules

General Formula	Name	General Formula	Name
$R-CH_2-H$	Alkane (Alkyl)	$\begin{array}{c} O \\    \\ R-C-H \end{array}$	Aldehyde
$R-CH=CH_2$	Alkene (unsaturated)	$\begin{array}{c} O \\    \\ R-C-R \end{array}$	Ketone
	Aromatic (Phenyl)	$\begin{array}{c} O \\    \\ R-C-OH \end{array}$	Carboxylic acid
$R-OH$	Alcohol (Hydroxyl)	$\begin{array}{c} O \\    \\ R-C-O-R \end{array}$	Ester
$R-SH$	Thiol (Sulfhydryl)	$\begin{array}{c} O \\    \\ R-C-S-R \end{array}$	Thioester
$R-NH_2$	Amine (Amino)	$\begin{array}{c} O \\    \\ R-C-NH_2 \end{array}$	Amide
$R-O-R$	Ether	$\begin{array}{c} O & O \\    &    \\ R-C-O-C-R \end{array}$	Acid anhydride
$R-S-R$	Thioether	$\begin{array}{c} O & O \\    &    \\ R-C-O-P-OH \\   \\ OH \end{array}$	Acyl phosphate
$R-S-S-R$	Disulfide	$\begin{array}{c} OH \\   \\ R-O-C-R \\   \\ R \end{array}$	Hemiketal
$\begin{array}{c} OH \\   \\ R-O-C-R \\   \\ H \end{array}$	Hemiacetal		

