

Class of Compound	Functional Group	General Formula	Example
halide (halocarbon)	$\text{—F}$ (fluoro-) $\text{—Cl}$ (chloro-) $\text{—Br}$ (bromo-) $\text{—I}$ (iodo-)	$R\text{—}X$ ( $X$ represents any halogen)	$\text{CH}_3\text{CHClCH}_3$ 2-chloropropane
alcohol	$\text{—OH}$	$R\text{—OH}$	$\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$ 1-propanol
ether	$\text{—O—}$	$R\text{—O—}R'$	$\text{CH}_3\text{OCH}_2\text{CH}_3$ methyl ethyl ether
aldehyde	$\begin{array}{c} \text{O} \\ \parallel \\ \text{—C—H} \end{array}$	$\begin{array}{c} \text{O} \\ \parallel \\ R\text{—C—H} \end{array}$	$\begin{array}{c} \text{O} \\ \parallel \\ \text{CH}_3\text{CH}_2\text{C—H} \end{array}$ propanal
ketone	$\begin{array}{c} \text{O} \\ \parallel \\ \text{—C—} \end{array}$	$\begin{array}{c} \text{O} \\ \parallel \\ R\text{—C—}R' \end{array}$	$\begin{array}{c} \text{O} \\ \parallel \\ \text{CH}_3\text{CCH}_2\text{CH}_2\text{CH}_3 \end{array}$ 2-pentanone
organic acid	$\begin{array}{c} \text{O} \\ \parallel \\ \text{—C—OH} \end{array}$	$\begin{array}{c} \text{O} \\ \parallel \\ R\text{—C—OH} \end{array}$	$\begin{array}{c} \text{O} \\ \parallel \\ \text{CH}_3\text{CH}_2\text{C—OH} \end{array}$ propanoic acid
ester	$\begin{array}{c} \text{O} \\ \parallel \\ \text{—C—O—} \end{array}$	$\begin{array}{c} \text{O} \\ \parallel \\ R\text{—C—O—}R' \end{array}$	$\begin{array}{c} \text{O} \\ \parallel \\ \text{CH}_3\text{CH}_2\text{COCH}_3 \end{array}$ methyl propanoate
amine	$\begin{array}{c}   \\ \text{—N—} \end{array}$	$\begin{array}{c} R' \\   \\ R\text{—N—}R'' \end{array}$	$\text{CH}_3\text{CH}_2\text{CH}_2\text{NH}_2$ 1-propanamine
amide	$\begin{array}{c} \text{O} \\ \parallel \\ \text{—C—NH} \\   \end{array}$	$\begin{array}{c} \text{O} \quad R' \\ \parallel \quad   \\ R\text{—C—NH} \end{array}$	$\begin{array}{c} \text{O} \\ \parallel \\ \text{CH}_3\text{CH}_2\text{C—NH}_2 \end{array}$ propanamide

**Note:**  $R$  represents a bonded atom or group of atoms.