

## Functional Group Priorities in Organic Nomenclature

Functional Group	Formula
Carboxylic Acids	$\begin{array}{c} \text{O} \\ \parallel \\ \text{R}-\text{C}-\text{O}-\text{H} \end{array}$
Esters	$\begin{array}{c} \text{O} \\ \parallel \\ \text{R}-\text{C}-\text{O}-\text{R}' \end{array}$
Amides	$\begin{array}{c} \text{O} \\ \parallel \\ \text{R}-\text{C}-\text{N}-\text{R}'' \\   \\ \text{R}''' \end{array}$
Aldehydes	$\begin{array}{c} \text{O} \\ \parallel \\ \text{R}-\text{C}-\text{H} \end{array}$
Ketones	$\begin{array}{c} \text{O} \\ \parallel \\ \text{R}-\text{C}-\text{R}' \end{array}$
Alcohols	$\text{R}'-\text{O}-\text{H}$
Amines	$\begin{array}{c} \text{R}' \\   \\ \text{R}-\text{N}-\text{R}'' \end{array}$
Ethers	$\text{R}'-\text{O}-\text{R}'$
Alkenes	$\begin{array}{c} \text{R} \quad \text{R} \\ \diagdown \quad \diagup \\ \text{C}=\text{C} \\ \diagup \quad \diagdown \\ \text{R} \quad \text{R} \end{array}$
Alkynes	$\text{R}-\text{C}\equiv\text{C}-\text{H}$
Alkyl Halides	$\text{R}-\text{X}$
Alkanes	$\begin{array}{c} \text{R} \quad \text{R} \\   \quad   \\ \text{H}-\text{C}-\text{C}-\text{H} \\   \quad   \\ \text{R} \quad \text{R} \end{array}$