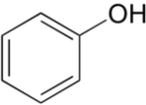


## 21.4: Hydrocarbon Derivatives

alkane	$\begin{array}{c} \text{H} & \text{H} \\   &   \\ \text{H}-\text{C} & -\text{C}-\text{H} \\   &   \\ \text{H} & \text{H} \end{array}$	ketone	$\begin{array}{c} \text{O} \\    \\ \text{H}_3\text{C}-\text{C}-\text{CH}_3 \end{array}$
alkene	$\begin{array}{c} \text{H} & & \text{H} \\ & \backslash & / \\ & \text{C}=\text{C} \\ & / & \backslash \\ \text{H} & & \text{H} \end{array}$	aldehyde	$\begin{array}{c} \text{O} \\    \\ \text{H}_3\text{C}-\text{C}-\text{H} \end{array}$
alkyne	$\text{H}-\text{C}\equiv\text{C}-\text{H}$	imine (Schiff base)	$\begin{array}{c} \text{N}-\text{CH}_3 \\    \\ \text{H}_3\text{C}-\text{C}-\text{CH}_3 \end{array}$
aromatic		carboxylic acid	$\begin{array}{c} \text{O} \\    \\ \text{H}_3\text{C}-\text{C}-\text{OH} \end{array}$
alkyl halide	$\begin{array}{c} \text{H} \\   \\ \text{H}-\text{C}-\text{Cl} \\   \\ \text{H} \end{array}$	ester	$\begin{array}{c} \text{O} \\    \\ \text{H}_3\text{C}-\text{C}-\text{O}-\text{CH}_3 \end{array}$
alcohol	$\begin{array}{c} \text{H} \\   \\ \text{H}_3\text{C}-\text{C}-\text{OH} \\   \\ \text{H} \end{array}$	thioester	$\begin{array}{c} \text{O} \\    \\ \text{H}_3\text{C}-\text{C}-\text{S}-\text{CH}_3 \end{array}$
thiol	$\begin{array}{c} \text{H} \\   \\ \text{H}_3\text{C}-\text{C}-\text{SH} \\   \\ \text{H} \end{array}$	amide	$\begin{array}{c} \text{O} \\    \\ \text{H}_3\text{C}-\text{C}-\text{N}-\text{CH}_3 \\   \\ \text{H} \end{array}$
amine	$\begin{array}{c} \text{H} \\   \\ \text{H}_3\text{C}-\text{C}-\text{NH}_2 \\   \\ \text{H} \end{array}$	acyl phosphate	$\begin{array}{c} \text{O} \\    \\ \text{H}_3\text{C}-\text{C}-\text{O}-\text{P}(\text{O})_2\text{O}^- \end{array}$
ether	$\text{H}_3\text{C}-\text{O}-\text{CH}_3$	acid chloride	$\begin{array}{c} \text{O} \\    \\ \text{H}_3\text{C}-\text{C}-\text{Cl} \end{array}$
thioether	$\text{H}_3\text{C}-\text{S}-\text{CH}_3$	phosphate monoester	$\begin{array}{c} \text{O} \\    \\ ^-\text{O}-\text{P}-\text{OCH}_3 \\   \\ \text{O}^- \end{array}$
phenol		phosphate diester	$\begin{array}{c} \text{O} \\    \\ ^-\text{O}-\text{P}-\text{OCH}_3 \\   \\ \text{OCH}_3 \end{array}$

Organic Chemistry With a Biological Emphasis by Tim Soderberg (University of Minnesota, Morris)

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