

A

Lewis Structures of Common Functional Groups

$\begin{array}{c} \\ -\text{C}- \\ \end{array}$	aliphatic carbon	$\begin{array}{c} \text{:O:} \\ \\ -\text{C}-\ddot{\text{N}}\text{H}_2 \end{array}$	amide
$\begin{array}{c} \diagup \\ \text{C}=\text{C} \\ \diagdown \end{array}$	alkene	$\text{:}\ddot{\text{O}}-\ddot{\text{O}}\text{:}$	molecular oxygen (triplet)
$-\text{C}\equiv\text{C}-$	alkyne	$-\text{:}\ddot{\text{O}}\text{:}-\text{H}$	hydroxy
$\begin{array}{c} \diagup \\ \text{C}=\ddot{\text{O}} \\ \diagdown \end{array}$	carbonyl	$-\ddot{\text{O}}-$	ether
$\begin{array}{c} \text{:O:} \\ \\ -\text{C}-\ddot{\text{O}}\text{H} \end{array}$	carboxylic acid	$-\ddot{\text{O}}-\ddot{\text{O}}-\text{H}$	hydroperoxy

(continues)

