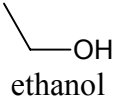
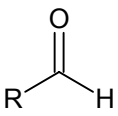
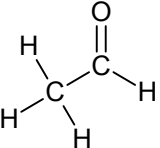
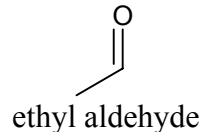
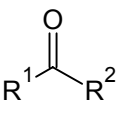
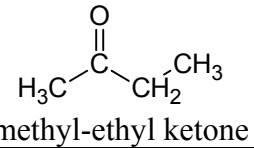
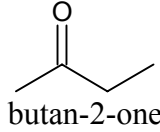
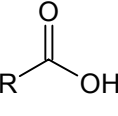
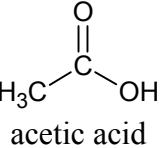
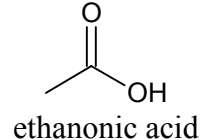
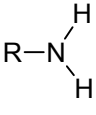
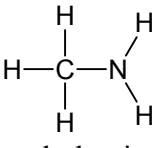
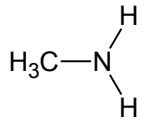

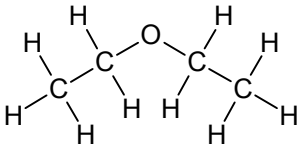
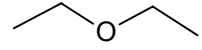


Functional Group	Class of Molecule	Formula	Example Traditional name	Shorthand Example IUPAC name
Hydroxyl -OH	alcohols	R-OH	$\text{H}_3\text{C}-\text{CH}_2$ OH ethyl alcohol	 ethanol
Carbonyl -CO-	aldehydes		 acetaldehyde	 ethyl aldehyde
	ketones		 methyl-ethyl ketone	 butan-2-one
Carboxyl -COOH	carboxylic acids		 acetic acid	 ethanoic acid
Amino -NH ₂	amines		 methylamine	
Oxygen bridge -O-	ethers		 diethyl ether	 1,1' oxydiethane

Functional Group	Class of Molecule	Formula	Example Traditional name	Shorthand Example IUPAC name
$-\text{C}(\text{O})\text{O}-$ (carbonyl adjacent to an ether)	esters		 propyl acetate	 propyl ethanoate
Amid $-\text{C}(\text{O})\text{NH}-$	amids or peptides		 N-methylbutanamide	
Phenyl $-\text{C}_6\text{H}_5$	aromatic		 butylbenzene	
Phosphate $-\text{OPO}_3^{2-}$	organic phosphates		 ribose-5-phosphate	
Sulfhydryl $-\text{SH}$	thiols	$\text{R}-\text{SH}$	 mercaptoethanol	 ethanethiol