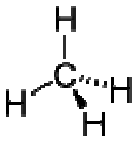
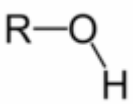
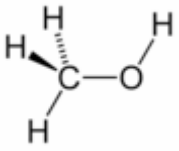
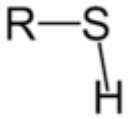
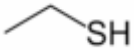
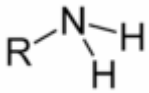
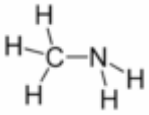
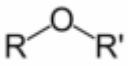
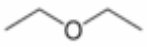
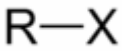
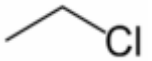
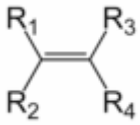
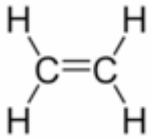
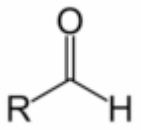
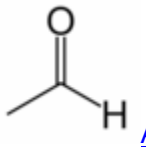
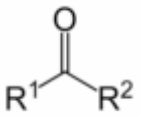
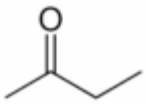
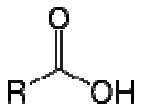
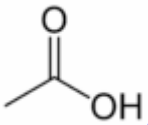
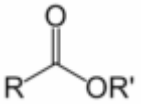
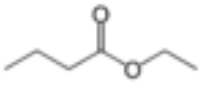
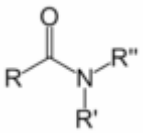
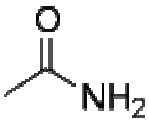
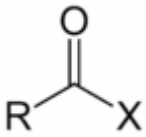
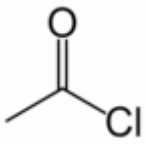
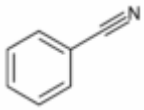
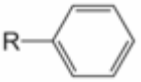
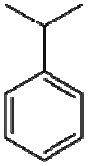
Class	Group	Formula	General Formula	Prefix	Suffix	Example
Alkane	Alkyl	RH		alkyl-	-ane	 Methane
Alcohol	Hydroxyl	ROH		hydroxy-	-ol	Methanol 
Thiol	Sulfhydryl	RSH		mercapto-, sulfanyl-	-thiol	 Ethanethiol
Amines	Primary amine	RNH2		amino-	-amine	 Methylamine
Ether	Ether	ROR'		alkoxy-	alkyl alkyl ether	 Diethyl ether
Halo alkane	Halo	RX		halo-	alkyl halide	 Chloroethane
Alkene	Alkenyl	R2C=CR2		alkenyl-	-ene	 Ethylene
Alkyne	Alkynyl	RC≡CR'		alkynyl-	-yne	 Acetylene

Aldehyde	Aldehyde	RCHO		oxo-	-al	 Acetaldehyde
Ketone	Ketone	RCOR'		keto-, oxo-	-one	 Methyl ethyl ketone
Carboxylic acid	Carboxyl	RCOOH		carboxy-	-oic acid	 Acetic acid
Ester	Ester	RCOOR'			-oate	 Ethyl butyrate
Amide	Carboxamide	RCONR2		carboxamido-	-amide	 Acetamide
Acyl halide	Haloformyl	RCOX		haloformyl-	-oyl halide	 Acetyl chloride
Nitrile	Nitrile	RCN		cyano-	alkanenitrile alkyl cyanide	 Benzonitrile
Benzene compound	Phenyl	RC6H5		phenyl-	-benzene	 Cumene