

Aldehyde

Carboxylic acid

Alkene

$$R$$
 R R R R

Ester

Alkyne

$$R-C\equiv C-R$$

Ether

$$R-O-R$$

Amide
$$R \stackrel{O}{\underset{R}{\overset{||}{\sim}}} R$$

Ketone

Amine
$$R-N$$

Nitrile

Thiol