Alcohol
Aldehyde
Alkene

 $R\!=\!OH$

Ether

$$R = O = R$$

Ketone

$$R R R$$
 $C = C'$
 $R' R$

Nitrile

$$R-C \equiv N$$

Alkyne

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

Thiol

$$R-SH$$

Amide

Amine

$$R\!-\!N\!\!\stackrel{R}{<}_R^R$$

Aromatic

Carboxylic Acid

Ester

$$C \sim R$$