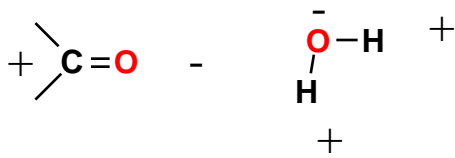


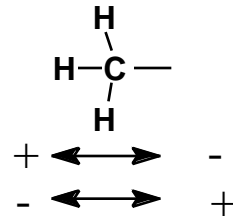
INTERMOLECULAR FORCES

van der Waals forces



dipoles

{Polar molecules or polar groups on molecules}

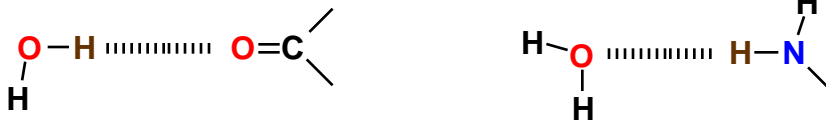


instantaneous dipoles

(Changes in electron distribution due to constant electron movement.)

{Nonpolar molecules or nonpolar groups}

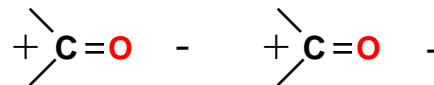
Hydrogen bonding



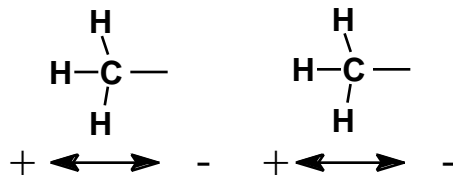
(Hydrogen covalently bonded to oxygen or nitrogen attracted to lone pair on oxygen or nitrogen.)

Attractions

Dipolar



London forces
(dispersion forces)



Hydrogen bonding

