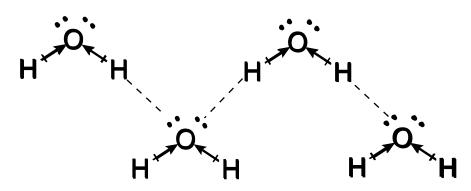
II. <u>Inter</u>molecular Forces and Chemical Properties (of organic compounds)

A. dipole-dipole

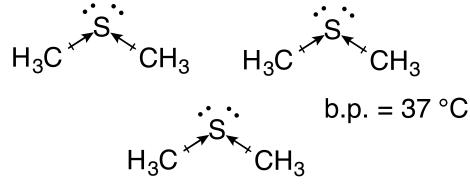
1. Ionic (very strong)

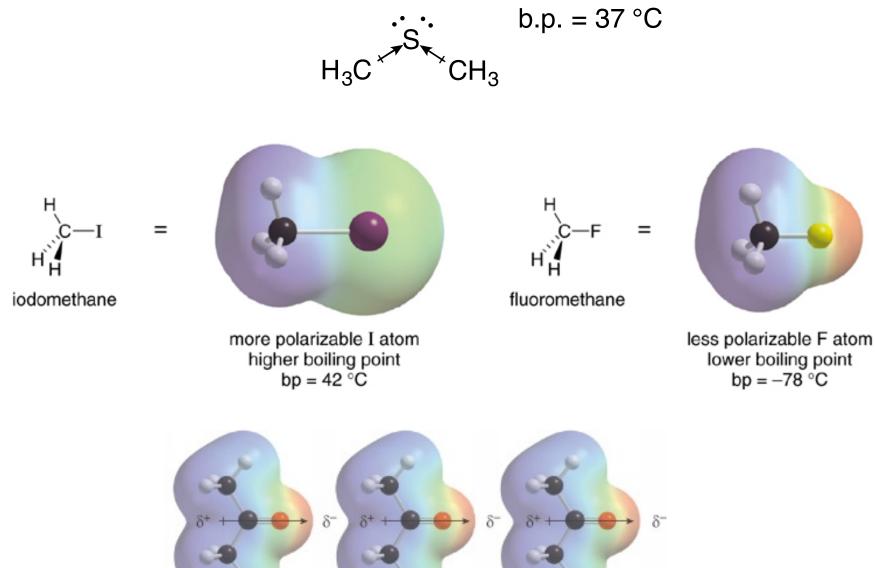
2. Hydrogen bonding (strong)

H bridges two atoms (F, O, N, S) using a covalent bond and an electrostatic bond



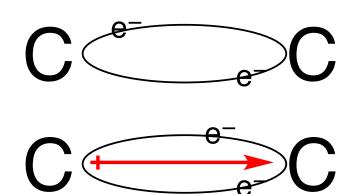
3. dipole-dipole (moderate)

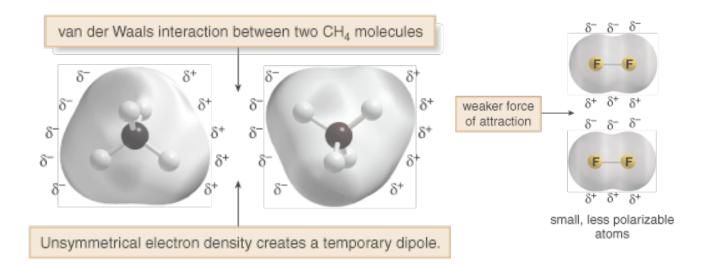


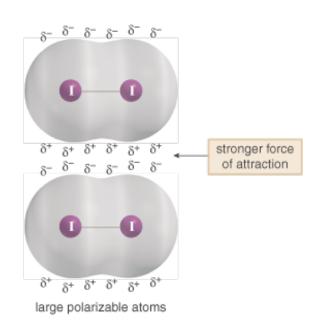


4. van der Waals (weak, but still significant)

Sometimes called London Forces
An induced dipole
Surface area of the molecule is important







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Pentane isomers (C₅H₁₂)

$$H_3C$$
 CH_3 H_3C CH_3 H_3C CH_3 H_3C CH_3

