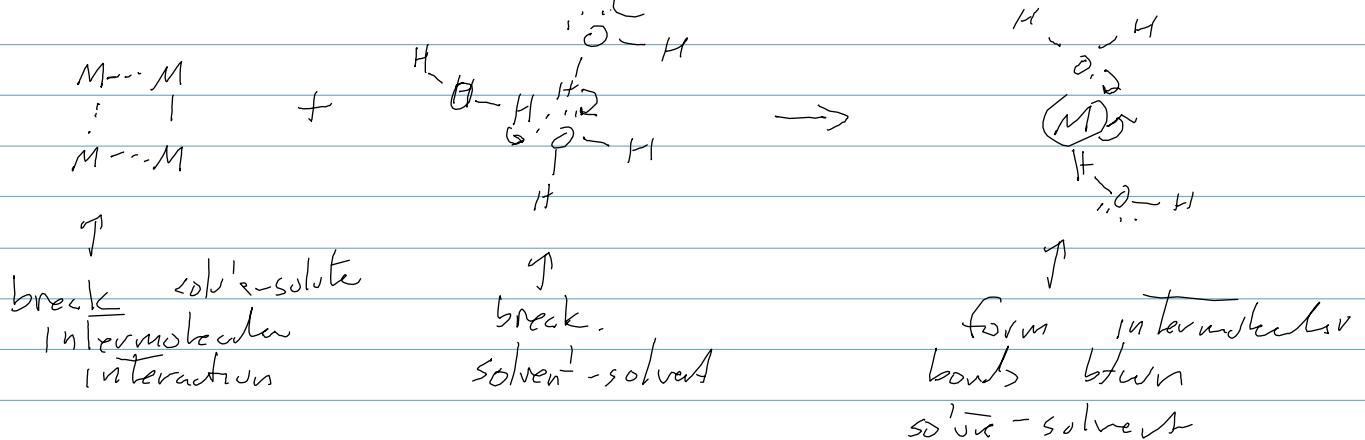


Solubility Trends due to Intermolecular interactions

"Likes dissolves likes" \rightarrow { polar solvent \rightarrow polar solute
nonpolar " \rightarrow nonpolar solutes



to dissolve solute \rightarrow form stronger intermolecular non-covalent bonds b/wn solute-solvent than own solute-solute & solvent-solvent interactions.

polar solvent:

ion-ion
ion-dipole
dipole-dipole
H-bonds.

polar solute

same for solute

Non-polar solvent

dispersion interaction

non-polar solute

same for solute