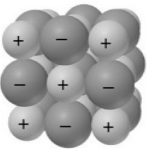

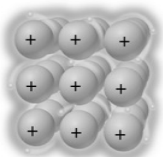


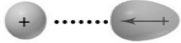
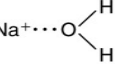
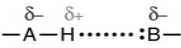
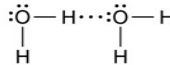
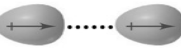

Chapter 11 Section 2 Intermolecular Forces

Bonding Forces

Force	Model	Basis of Attraction	Energy (kJ/mol)	Example
Bonding				
Ionic		Cation–anion	400–4000	NaCl
Covalent		Nuclei–shared e ⁻ pair	150–1100	H–H
Metallic		Cations–delocalized electrons	75–1000	Fe

Chapter 11 Section 2 Intermolecular Forces

Intermolecular Forces

Force	Model	Basis of Attraction	Energy (kJ/mol)	Example
Nonbonding (Intermolecular)				
Ion-dipole		Ion charge–dipole charge	40–600	Na ⁺ ····· 
H bond		Polar bond to H–dipole charge (high EN of N, O, F)	10–40	
Dipole-dipole		Dipole charges	5–25	I–Cl·····I–Cl
Dispersion (London)		Polarizable e ⁻ clouds	0.05–40	F–F·····F–F

Chapter menu

Resources

Chapter 11 Section 2 Intermolecular Forces

Putting it All Together

