Interparticle Forces

All Matter

Metallic
(metal - metal)
Interparticle force is the metallic bond

Covalent
(nonmetal - nonmetal)

Ionic
(metal - nonmetal)
Interparticle force is ionic bond

Covalent Network
Bonding between:
B C N
Al Si P
Ga Ge S
Interparticle force is the covalent bond

Molecular

Polar Covalent
Net dipole > 0

Nonpolar Covalent
Net dipole = 0

Interparticle force is dipole-dipole interaction
Interparticle force is H-bonding: H bonded to N, O only

Interparticle force is London force or van der Waals force