Types of IMFs flowchart

Draw Lewis structure!

Symmetrical all around?

- nonpolar
  - Dispersion forces
    - ONLY

Asymmetrical

- polar
  - Dispersion forces
  - H-bonding
    - YES, H bonded directly to N, O, F
  - Dipole-dipole interactions
    - NO, H not bonded directly to N, O, F

Types of IMFs:

- Nonpolar
- Polar

Word bank:
- H-bonding
- Dispersion forces
- Dipole-dipole interactions
- Polar
- Nonpolar
IMF Strength Flowchart

Word bank:
- polarizability
- difference in electronegativity
- strong IMFs
- weak IMFs
- surface area
- more/less [evap]
- high/low [mp/bp]

polarizability

increases with higher

surface area

increases with higher

Molar mass

Strong IMFs

Weak IMFs

less evaporation

results in

large

small

difference in electronegativity

between bonded atoms

high melting/boiling point

more evaporation

results in

large

small

high melting/boiling point

low melting/boiling point