

Unit  
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Solutions

**Solubility:**

- The maximum amount of substance that can be dissolved in given amount of solvent at given temperature is known as Solubility.
- Solubility of solid in liquid is more effected by
  - (i) Nature of solute & solvent
  - (ii) Temperature
- Polar compounds are more soluble in polar solvents non polar compounds are more soluble in non-polar solvents.
- If dissolution process is exothermic ( $\Delta H < 0$ ), solubility decreases with increase in temperature.
- If dissolution process is endothermic ( $\Delta H > 0$ ), solubility increases with increase in temperature.
- Pressure cannot effect solubility of solid in liquid, as solids and liquids are less compressible.