

Chapter 14 - Solutions

Concepts

- vapor pressure (concept) + its relationship to b.p.
 - "Like dissolves like" and miscibility
 - definition of molarity and molality
 - colligative properties - definition
 - freezing pt depression + b.p. elevation
 - osmotic pressure
 - Van't Hoff factor, i for strong & weak electrolytes
 - nomenclature of ionic compounds
- (on sheet) + organic compounds (on sheet)

Calculations

- molarity, molality
- b.p + f.p of solutions
- osmotic pressure

$$\Delta T_b = i K_b m$$
$$\Delta T_f = i K_f m$$

$$\pi = i M R T$$

- molecular weight from
bp elevation
fp depression
osmotic pressure