

Honors Chemistry - Topic IX Outline

Solutions and Colligative Properties

I. Solutions

pp. 450-455; 537-540; 100; 490-493; 175-177

A. Process of Solution

1. Solute-solvent combinations
2. Solutions and energy

B. Solutions and Equilibrium

1. Solubility
2. Solubility product constant

C. Electrolytes

1. Nature and properties of electrolytes
2. Electrolyte strength

D. Ionic and Net Ionic Equations

II. *Colloids

A. Definitions

B. Properties of Colloids

1. Colloid sizes
2. Classifications
3. Separation of colloids

III. *Colligative Properties

A. Definitions

B. Quantitative Changes in Properties

1. Raoult's Law
2. Calculations
 - a. non-electrolytes
 - b. electrolytes
3. Osmotic pressure

* Concept not in our textbook