

CHAPTER OVERVIEW

9: Aqueous Solutions

Solutions were introduced in an earlier chapter as the mixture in which the substances involved are mixed at the molecular level. There was also a discussion about how solutions form based on the intermolecular forces that occur between solvent and solute particles. These ideas about solutions are important to understand as we move forward in this chapter to focus on a particular type of solution which is both very common and very important: aqueous solutions.

9.1: Solutions - Homogeneous Mixtures

9.1.1: How Solutions Form

9.1.2: Electrolytes and Nonelectrolytes

9.1.3: Aqueous Solutions and Solubility - Compounds Dissolved in Water

9.2: Solubility Trends

9.2.1: Solutions of Solids Dissolved in Water

9.2.2: Solutions of Gases in Water

9.3: Measures of Concentration

9.3.1: Percent Solutions

9.3.2: Solution Concentration- Molarity

9.4: Concentration Calculations

9.4.1: A Mole Map for Concentration

9.4.2: Solution Dilution

9.5: Colligative Properties and Molality

9.5.1: Freezing Point Depression and Boiling Point Elevation

9.5.2: Osmosis

9.E: Solutions (Exercises)

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