

## ***CHEM 111 Study Guide for Exam 4: Chapters 7—9***

### **Chapter 7: Chemical reactions and chemical quantities**

1. Know how to do gram / mole conversions.
2. Know the relationships between moles and chemical equations, and how to do calculations based on a balanced equation
3. Know the relationships between mass and chemical equations, and how to do calculations based on a balanced equation
4. Be able to figure out limiting reagent and be able to calculate theoretical yield and percent yield.

### **Chapter 8: Introduction to Solutions and Aqueous Reactions**

1. Understand molarity as a concentration and be able to use it in calculations.
2. Be able to do dilution stoichiometry.
3. Know the difference among strong electrolytes, weak electrolytes and nonelectrolytes.
4. Be able to do solution stoichiometry in a given chemical reaction.
5. Be able to write molecular equations, complete ionic equations and net ionic equations.
6. Be able to assign oxidation numbers (states) for a given chemical formula.
7. Be able to recognize redox reactions, and identify oxidation reaction, reduction reaction, oxidizing agent and reducing agent.

### **Chapter 9: Thermochemistry**

1. Know the difference of kinetic energy and potential energy.
2. Understand endothermic reactions and exothermic reactions.
3. Be able to write equations for standard enthalpy of formation ( $\Delta H_f^\circ$ ).
4. Be able to use Hess's law.
5. Be able to use bond energies to calculate  $\Delta H$  for a chemical reaction.
6. Be able to use given  $\Delta H_f^\circ$  to calculate  $\Delta H_{rxn}^\circ$
7. Be able to calculate heat (q) using specific heat:  $q = c.m. \Delta T$

# Chemistry 111 Study Guide

**Joshua Romine Morton**

## Chemistry 111 Study Guide:

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## **Table of Contents Chemistry 111 Study Guide**

1. Understanding the eBook Chemistry 111 Study Guide
  - The Rise of Digital Reading Chemistry 111 Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry 111 Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Chemistry 111 Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry 111 Study Guide
  - Personalized Recommendations
  - Chemistry 111 Study Guide User Reviews and Ratings
  - Chemistry 111 Study Guide and Bestseller Lists
5. Accessing Chemistry 111 Study Guide Free and Paid eBooks

- Chemistry 111 Study Guide Public Domain eBooks
- Chemistry 111 Study Guide eBook Subscription Services
- Chemistry 111 Study Guide Budget-Friendly Options

6. Navigating Chemistry 111 Study Guide eBook Formats

- ePUB, PDF, MOBI, and More
- Chemistry 111 Study Guide Compatibility with Devices
- Chemistry 111 Study Guide Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Chemistry 111 Study Guide
- Highlighting and Note-Taking Chemistry 111 Study Guide
- Interactive Elements Chemistry 111 Study Guide

8. Staying Engaged with Chemistry 111 Study Guide

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Chemistry 111 Study Guide

9. Balancing eBooks and Physical Books Chemistry 111 Study Guide

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Chemistry 111 Study Guide

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Chemistry 111 Study Guide

- Setting Reading Goals Chemistry 111 Study Guide
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Chemistry 111 Study Guide

- Fact-Checking eBook Content of Chemistry 111 Study Guide
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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