

CK-12 Chemistry - Basic Answer Key

Chapter 7: Chemical Nomenclature

7.1 Ionic Compounds

Lesson Review Questions

Questions

- What is the purpose of an empirical formula?
- Define binary and ternary ionic compounds.
- What is the difference between a monatomic and a polyatomic ion?
- For each of the following ionic compounds, what ions are present and in what ratio?
 - MgBr_2
 - Li_2CO_3
 - $\text{Fe}_2(\text{SO}_4)_3$
- Predict the compound that forms when gallium combines with oxygen. What would the name of this compound be?
- Give the formula for each of the following ionic compounds:

(a) ammonium nitrate	(d) vanadium(III) oxide
(b) cobalt(II) sulfate	(e) barium oxide
(c) nickel(II) cyanide	(f) calcium hypochlorite
- Name the following ionic compounds:
 - MgBr_2
 - (d) KMnO_4
 - Li_2CO_3
 - $(\text{NH}_4)_2\text{S}$
 - KHSO_3
 - CuCl
 - CuCl_2
- Write the correct formulas for the following ionic compounds:
 - Barium chloride
 - Chromium(III) oxide
 - Potassium sulfate
 - Zinc phosphate

Answer:

- The empirical formula is the most straightforward way to describe the structure of a molecule, using a chemical formula that gives the lowest whole number ratio between the ions involved.

Mastering Chemistry Answer Key Chapter 7

Judd E. Hollander



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High School Chemistry Unlocked The Princeton Review, 2016-10-18 UNLOCK THE SECRETS OF CHEMISTRY with THE PRINCETON REVIEW High School Chemistry Unlocked focuses on giving you a wide range of key lessons to help increase your understanding of chemistry With this book you ll move from foundational concepts to complicated real world applications building confidence as your skills improve End of chapter drills will help test your comprehension of each facet of chemistry from atoms to alpha radiation Don t feel locked out Everything You Need to Know About Chemistry Complex concepts explained in straightforward ways Walk throughs of sample problems for all topics Clear goals and self assessments to help you pinpoint areas for further review Guided examples of how to solve problems for common subjects Practice Your Way to Excellence 165 hands on practice questions seeded throughout the chapters and online Complete answer explanations to boost understanding Bonus online questions similar to those you ll find on the AP Chemistry Exam and the SAT Chemistry Subject Test High School Chemistry Unlocked covers Building blocks of matter Physical behavior of matter Chemical bonding Chemical reactions Stoichiometry Solutions Acids and bases Equilibrium Organic chemistry Radioactivity and more

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Table of Contents Mastering Chemistry Answer Key Chapter 7

1. Understanding the eBook Mastering Chemistry Answer Key Chapter 7
 - The Rise of Digital Reading Mastering Chemistry Answer Key Chapter 7
 - Advantages of eBooks Over Traditional Books
2. Identifying Mastering Chemistry Answer Key Chapter 7
 - 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 Mastering Chemistry Answer Key Chapter 7
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mastering Chemistry Answer Key Chapter 7
 - Personalized Recommendations
 - Mastering Chemistry Answer Key Chapter 7 User Reviews and Ratings
 - Mastering Chemistry Answer Key Chapter 7 and Bestseller Lists
5. Accessing Mastering Chemistry Answer Key Chapter 7 Free and Paid eBooks
 - Mastering Chemistry Answer Key Chapter 7 Public Domain eBooks
 - Mastering Chemistry Answer Key Chapter 7 eBook Subscription Services
 - Mastering Chemistry Answer Key Chapter 7 Budget-Friendly Options

-
6. Navigating Mastering Chemistry Answer Key Chapter 7 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mastering Chemistry Answer Key Chapter 7 Compatibility with Devices
 - Mastering Chemistry Answer Key Chapter 7 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mastering Chemistry Answer Key Chapter 7
 - Highlighting and Note-Taking Mastering Chemistry Answer Key Chapter 7
 - Interactive Elements Mastering Chemistry Answer Key Chapter 7
 8. Staying Engaged with Mastering Chemistry Answer Key Chapter 7
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mastering Chemistry Answer Key Chapter 7
 9. Balancing eBooks and Physical Books Mastering Chemistry Answer Key Chapter 7
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mastering Chemistry Answer Key Chapter 7
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Mastering Chemistry Answer Key Chapter 7
 - Setting Reading Goals Mastering Chemistry Answer Key Chapter 7
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Mastering Chemistry Answer Key Chapter 7
 - Fact-Checking eBook Content of Mastering Chemistry Answer Key Chapter 7
 - 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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Table 37. Assessment. Page 6. Assessment. Name. Chapter ...