

12

STOICHIOMETRY

Practice Problems

In your notebook, solve the following problems.

SECTION 12.1 THE ARITHMETIC OF EQUATIONS

Use the 3-step problem-solving approach you learned in Chapter 1.

1. An apple pie needs 10 large apples, 2 cups (top and bottom), and 1 tablespoon of cinnamon. Write a balanced equation that fits this situation. How many apples are needed to make 20 pies?
2. Two moles of potassium chloride and three moles of oxygen are produced from the decomposition of two moles of potassium chlorate, $\text{KClO}_3(\text{s})$. Write the balanced equation. How many moles of oxygen are produced from 12 moles of potassium chlorate?
3. Using the equation from problem 2, how many moles of oxygen are produced from 14 moles of potassium chlorate?
4. Two molecules of hydrogen react with one molecule of oxygen to produce two molecules of water. How many molecules of water are produced from 3.8×10^{23} molecules of oxygen? How many moles of water are produced from 22.5 moles of oxygen?

SECTION 12.2 CHEMICAL CALCULATIONS

1. Calculate the number of moles of hydrogen chloride produced from 10 moles of hydrogen.



2. Calculate the number of moles of chlorine needed to form 14 moles of iron(II) chloride.



3. Calculate the number of grams of nitrogen dioxide that are produced from 4 moles of nitric oxide.



4. Calculate the mass of oxygen produced from the decomposition of 75.0 g of potassium chlorate.



5. Calculate the mass of silver needed to react with chlorine to produce 94 g of silver chloride. Write a balanced equation first.

6. How many liters of carbon monoxide at STP are needed to react with 4.00 g of oxygen gas to produce carbon dioxide?



7. Calculate the number of liters of oxygen gas needed to produce 15.0 liters of dinitrogen monoxide. Assume all gases are at the same conditions of temperature and pressure.



Core Teaching Resources Chemistry Answers Chapter 14

Neil D. Jespersen, Alison Hyslop



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Chemistry Neil D. Jespersen, Alison Hyslop, 2021-11-02 Chemistry The Molecular Nature of Matter 8th Edition continues to focus on the intimate relationship that exists between structure at the atomic molecular level and the observable macroscopic properties of matter Key revisions in this edition focus on three areas The deliberate inclusion of more updated real world examples that relate common real world student experiences to the science of chemistry Simultaneously examples and questions have been updated to align them with career concepts relevant to the environmental engineering biological pharmaceutical and medical sciences Providing students with transferable skills with a focus on integrating metacognition and three dimensional learning into the text When students know what they know they are better able to learn and incorporate the material Providing a total solution through New WileyPLUS by fully integrating the enhanced eText with online assessment answer specific responses and additional practice resources The 8th edition continues to emphasize the importance of applying concepts to problem

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Motahhir,Badre Bossoufi,2023-04-27 This book presents volume 2 of selected research papers presented at the Second International Conference on Digital Technologies and Applications ICDTA 23 This book highlights the latest innovations in digital technologies as artificial intelligence Internet of Things embedded systems network technology digital transformation and their applications in several areas as Industry 4 0 renewable energy mechatronics digital healthcare etc The respective papers encourage and inspire researchers industry professionals and policymakers to put these methods into practice

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Table of Contents Core Teaching Resources Chemistry Answers Chapter 14

1. Understanding the eBook Core Teaching Resources Chemistry Answers Chapter 14
 - The Rise of Digital Reading Core Teaching Resources Chemistry Answers Chapter 14
 - Advantages of eBooks Over Traditional Books
2. Identifying Core Teaching Resources Chemistry Answers Chapter 14
 - 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 Core Teaching Resources Chemistry Answers Chapter 14
 - User-Friendly Interface
4. Exploring eBook Recommendations from Core Teaching Resources Chemistry Answers Chapter 14
 - Personalized Recommendations
 - Core Teaching Resources Chemistry Answers Chapter 14 User Reviews and Ratings
 - Core Teaching Resources Chemistry Answers Chapter 14 and Bestseller Lists
5. Accessing Core Teaching Resources Chemistry Answers Chapter 14 Free and Paid eBooks
 - Core Teaching Resources Chemistry Answers Chapter 14 Public Domain eBooks
 - Core Teaching Resources Chemistry Answers Chapter 14 eBook Subscription Services
 - Core Teaching Resources Chemistry Answers Chapter 14 Budget-Friendly Options
6. Navigating Core Teaching Resources Chemistry Answers Chapter 14 eBook Formats

- ePub, PDF, MOBI, and More
 - Core Teaching Resources Chemistry Answers Chapter 14 Compatibility with Devices
 - Core Teaching Resources Chemistry Answers Chapter 14 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Core Teaching Resources Chemistry Answers Chapter 14
 - Highlighting and Note-Taking Core Teaching Resources Chemistry Answers Chapter 14
 - Interactive Elements Core Teaching Resources Chemistry Answers Chapter 14
 8. Staying Engaged with Core Teaching Resources Chemistry Answers Chapter 14
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Core Teaching Resources Chemistry Answers Chapter 14
 9. Balancing eBooks and Physical Books Core Teaching Resources Chemistry Answers Chapter 14
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Core Teaching Resources Chemistry Answers Chapter 14
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Core Teaching Resources Chemistry Answers Chapter 14
 - Setting Reading Goals Core Teaching Resources Chemistry Answers Chapter 14
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Core Teaching Resources Chemistry Answers Chapter 14
 - Fact-Checking eBook Content of Core Teaching Resources Chemistry Answers Chapter 14
 - 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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