#### CHAPTER 7 REVIEW

## Chemical Formulas and Chemical Compounds

#### SECTION 7-1

#### SHORT ANSWER Answer the following questions in the space provided.

- In a Stock name such as iron(III) sulfate, the roman numeral tells us \_\_\_\_\_
  - (a) how many atoms of Fe are in one formula unit
  - (b) how many sulfate ions can be attached to the iron atom.
  - (c) the charge on each Fe ion
  - (d) the total positive charge of the formula unit
- The result of changing a subscript in a correctly written chemical formula is to \_\_\_\_\_\_
  - (a) change the number of moles represented by the formula
  - (b) change the charges on the other ions in the compound
  - (c) change the formula so that it no longer represents the compound it previously represented
  - (d) have no effect on the formula
- The explosive TNT has the molecular formula C<sub>2</sub>H<sub>3</sub>(NO<sub>2</sub>)<sub>3</sub>.
  - 4 elements a. How many elements make up this compound?
  - 6 oxygen atoms b. How many oxygen atoms are present in one molecule of  $C_2H_3(NO_2)_3$ ?
  - 21 atoms c. How many atoms in total are present in one molecule of C<sub>7</sub>H<sub>5</sub>(NO<sub>2</sub>)<sub>3</sub>?
  - 4.2 × 10<sup>24</sup> atoms d. How many atoms are present in a sample of 2 × 10<sup>23</sup> molecules of C<sub>7</sub>H<sub>2</sub>(NO<sub>2</sub>)<sub>3</sub>?
- 4. How many atoms are present in each of these formula units?
  - 11 atoms a, Ca(HCO<sub>3</sub>)<sub>2</sub>
    - 45 atoms b. C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>
  - 10 atoms c. Fe(ClO<sub>2</sub>)<sub>3</sub>
  - 9 atoms d. Fe(ClO<sub>3</sub>)<sub>2</sub>
- 5. N<sub>2</sub>Q<sub>5</sub> a. What is the formula for the compound dinitrogen pentoxide?
  - carbon(IV) sulfide b. What is the Stock name for the covalent compound CS<sub>2</sub>?
    - H<sub>2</sub>SO<sub>3</sub> c. What is the formula for sulfurous acid?
  - phosphoric acid d. What is the name for the acid H<sub>3</sub>PO<sub>4</sub>?

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# <u>Chapter 9 Chemical Names And Formulas Practice</u> <u>Problems Answers</u>

**Ying Liu** 

<b>Chapter 9 Chemical Names And Formulas Practice Problems Answers:</b>
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The book delves into Chapter 9 Chemical Names And Formulas Practice Problems Answers. Chapter 9 Chemical Names And Formulas Practice Problems Answers is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Chapter 9 Chemical Names And Formulas Practice Problems Answers, encompassing both the fundamentals and more intricate discussions.

- 1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Chapter 9 Chemical Names And Formulas Practice Problems Answers
  - Chapter 2: Essential Elements of Chapter 9 Chemical Names And Formulas Practice Problems Answers
  - o Chapter 3: Chapter 9 Chemical Names And Formulas Practice Problems Answers in Everyday Life
  - Chapter 4: Chapter 9 Chemical Names And Formulas Practice Problems Answers in Specific Contexts
  - ∘ Chapter 5: Conclusion
- 2. In chapter 1, this book will provide an overview of Chapter 9 Chemical Names And Formulas Practice Problems Answers. This chapter will explore what Chapter 9 Chemical Names And Formulas Practice Problems Answers is, why Chapter 9 Chemical Names And Formulas Practice Problems Answers is vital, and how to effectively learn about Chapter 9 Chemical Names And Formulas Practice Problems Answers.
- 3. In chapter 2, this book will delve into the foundational concepts of Chapter 9 Chemical Names And Formulas Practice Problems Answers. The second chapter will elucidate the essential principles that need to be understood to grasp Chapter 9 Chemical Names And Formulas Practice Problems Answers in its entirety.
- 4. In chapter 3, this book will examine the practical applications of Chapter 9 Chemical Names And Formulas Practice Problems Answers in daily life. The third chapter will showcase real-world examples of how Chapter 9 Chemical Names And Formulas Practice Problems Answers can be effectively utilized in everyday scenarios.
- 5. In chapter 4, the author will scrutinize the relevance of Chapter 9 Chemical Names And Formulas Practice Problems Answers in specific contexts. The fourth chapter will explore how Chapter 9 Chemical Names And Formulas Practice Problems Answers is applied in specialized fields, such as education, business, and technology.
- 6. In chapter 5, this book will draw a conclusion about Chapter 9 Chemical Names And Formulas Practice Problems Answers. The final chapter will summarize the key points that have been discussed throughout the book.

  This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Chapter 9 Chemical Names And Formulas Practice Problems Answers.

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