

DESCRIBING CHEMICAL REACTIONS

Section Review - Objectives

- Explain how to write a word equation
- Describe how to write a skeleton equation
- List the steps for writing a complete chemical equation.

Vocabulary

- chemical equation
- skeleton equation
- catalyst
- coefficients
- balanced equation

Part A Completion

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this section. Each blank can be completed with a term, short phrase, or number.

A chemical reaction can be concisely represented by a chemical ____ 1 _____. The substances that undergo a chemical change are the ____ 2 _____. The new substances formed in a chemical reaction are the ____ 3 _____. In accordance with the law of conservation of ____ 4 _____, a chemical equation must be balanced. When balancing an equation, you place ____ 5 _____ in front of reactants and products so that the same number of atoms of each ____ 6 _____ are on each side of the equation. An equation must never be balanced by changing the ____ 7 _____ in the chemical formula of a substance.

Special symbols are used to show the physical state of a substance in a reaction. The symbol for a liquid is ____ 8 ____; for a solid, ____ 9 ____; and for a gas, ____ 10 _____. A substance dissolved in water is designated ____ 11 _____. If a ____ 12 _____ is used to increase the rate of a chemical reaction, its formula is written above the arrow.

- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

Part B True-False

Classify each of these statements as always true, AT; sometimes true, ST; or never true, NT.

- _____ 13. In an equation, a substance is shown to be in the gaseous state by placing an upward-pointing arrow after its formula.
- _____ 14. The symbol Δ placed over the arrow in an equation means that heat is supplied to the reaction.
- _____ 15. Atoms are destroyed in a chemical reaction.
- _____ 16. A skeleton equation is not a balanced equation.

Part D Questions and Problems

24. Write a balanced equation for each of these chemical reactions. I

a. Aluminum reacts with aqueous hydrochloric acid to form hydrogen gas and aqueous aluminum chloride.

b. Acetylene gas (C_2H_2) burns in a welding torch with oxygen to form carbon dioxide gas and water vapor.

Section 1describing Chemical Reaction Answer Key

Brendan G. Carr



Section 1describing Chemical Reaction Answer Key:

The book delves into Section 1describing Chemical Reaction Answer Key. Section 1describing Chemical Reaction Answer Key is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Section 1describing Chemical Reaction Answer Key, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Section 1describing Chemical Reaction Answer Key
- Chapter 2: Essential Elements of Section 1describing Chemical Reaction Answer Key
- Chapter 3: Section 1describing Chemical Reaction Answer Key in Everyday Life
- Chapter 4: Section 1describing Chemical Reaction Answer Key in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Section 1describing Chemical Reaction Answer Key. This chapter will explore what Section 1describing Chemical Reaction Answer Key is, why Section 1describing Chemical Reaction Answer Key is vital, and how to effectively learn about Section 1describing Chemical Reaction Answer Key.
3. In chapter 2, this book will delve into the foundational concepts of Section 1describing Chemical Reaction Answer Key. The second chapter will elucidate the essential principles that must be understood to grasp Section 1describing Chemical Reaction Answer Key in its entirety.
4. In chapter 3, this book will examine the practical applications of Section 1describing Chemical Reaction Answer Key in daily life. This chapter will showcase real-world examples of how Section 1describing Chemical Reaction Answer Key can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Section 1describing Chemical Reaction Answer Key in specific contexts. This chapter will explore how Section 1describing Chemical Reaction Answer Key is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Section 1describing Chemical Reaction Answer Key. The final chapter will summarize the key points that have been discussed throughout the book.

The 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 Section 1describing Chemical Reaction Answer Key.

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