

**CHAPTER 6 REVIEW***Chemical Bonding***MIXED REVIEW**

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

1. Name the type of energy that is a measure of strength for each of the following types of bonds:

\_\_\_\_\_ **lattice energy** \_\_\_\_\_ a. ionic bond  
 \_\_\_\_\_ **bond energy** \_\_\_\_\_ b. covalent bond  
 \_\_\_\_\_ **enthalpy of vaporization** \_\_\_\_\_ c. metallic bond

2. Use the electronegativity values shown in **Figure 20**, on page 161 of the text, to determine whether each of the following bonds is nonpolar covalent, polar covalent, or ionic.

\_\_\_\_\_ **ionic** \_\_\_\_\_ a. H—F \_\_\_\_\_ **nonpolar covalent** \_\_\_\_\_ d. H—H  
 \_\_\_\_\_ **ionic** \_\_\_\_\_ b. Na—Cl \_\_\_\_\_ **polar covalent** \_\_\_\_\_ e. H—C  
 \_\_\_\_\_ **polar covalent** \_\_\_\_\_ c. H—O \_\_\_\_\_ **polar covalent** \_\_\_\_\_ f. H—N

3. How is a hydrogen bond different from an ionic or covalent bond?

A hydrogen bond is a dipole-dipole attraction between a partially positive hydrogen atom and the unshared electron pair of a strongly electronegative atom such as O, N, or F. Unlike ionic or covalent bonds, in which electrons are given up or shared, the hydrogen bond is a weaker attraction. Hydrogen bonds are generally intermolecular, while ionic and covalent bonds occur between ions or atoms respectively.

4. H<sub>2</sub>S and H<sub>2</sub>O have similar structures and their central atoms belong to the same group. Yet H<sub>2</sub>S is a gas at room temperature and H<sub>2</sub>O is a liquid. Use bonding principles to explain why this is.

Oxygen has higher electronegativity than sulfur, which creates a highly polar bond. Increased polarity in H<sub>2</sub>O bonds means a stronger intermolecular attraction, making water a liquid at room temperature. Hydrogen bonding exists between water molecules, but not between hydrogen sulfide molecules.

# Chapter 8 Covalent Bonding Chapter Assessment Answers

**Patrick Vollmar**



**Chapter 8 Covalent Bonding Chapter Assessment Answers:**

The book delves into Chapter 8 Covalent Bonding Chapter Assessment Answers. Chapter 8 Covalent Bonding Chapter Assessment 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 8 Covalent Bonding Chapter Assessment Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
  - Chapter 1: Introduction to Chapter 8 Covalent Bonding Chapter Assessment Answers
  - Chapter 2: Essential Elements of Chapter 8 Covalent Bonding Chapter Assessment Answers
  - Chapter 3: Chapter 8 Covalent Bonding Chapter Assessment Answers in Everyday Life
  - Chapter 4: Chapter 8 Covalent Bonding Chapter Assessment Answers in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Chapter 8 Covalent Bonding Chapter Assessment Answers. The first chapter will explore what Chapter 8 Covalent Bonding Chapter Assessment Answers is, why Chapter 8 Covalent Bonding Chapter Assessment Answers is vital, and how to effectively learn about Chapter 8 Covalent Bonding Chapter Assessment Answers.
3. In chapter 2, the author will delve into the foundational concepts of Chapter 8 Covalent Bonding Chapter Assessment Answers. This chapter will elucidate the essential principles that must be understood to grasp Chapter 8 Covalent Bonding Chapter Assessment Answers in its entirety.
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5. In chapter 4, this book will scrutinize the relevance of Chapter 8 Covalent Bonding Chapter Assessment Answers in specific contexts. This chapter will explore how Chapter 8 Covalent Bonding Chapter Assessment Answers is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Chapter 8 Covalent Bonding Chapter Assessment Answers. This 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. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Chapter 8 Covalent Bonding Chapter Assessment Answers.

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