# 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:

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 Worksheet Answers**

**Keith Taber** 

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#### **Table of Contents Chapter 8 Covalent Bonding Worksheet Answers**

- 1. Understanding the eBook Chapter 8 Covalent Bonding Worksheet Answers
  - The Rise of Digital Reading Chapter 8 Covalent Bonding Worksheet Answers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Chapter 8 Covalent Bonding Worksheet Answers
  - 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 Chapter 8 Covalent Bonding Worksheet Answers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Chapter 8 Covalent Bonding Worksheet Answers

- Personalized Recommendations
- Chapter 8 Covalent Bonding Worksheet Answers User Reviews and Ratings
- Chapter 8 Covalent Bonding Worksheet Answers and Bestseller Lists
- 5. Accessing Chapter 8 Covalent Bonding Worksheet Answers Free and Paid eBooks
  - Chapter 8 Covalent Bonding Worksheet Answers Public Domain eBooks
  - Chapter 8 Covalent Bonding Worksheet Answers eBook Subscription Services
  - Chapter 8 Covalent Bonding Worksheet Answers Budget-Friendly Options
- 6. Navigating Chapter 8 Covalent Bonding Worksheet Answers eBook Formats
  - o ePub, PDF, MOBI, and More
  - Chapter 8 Covalent Bonding Worksheet Answers Compatibility with Devices
  - Chapter 8 Covalent Bonding Worksheet Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 8 Covalent Bonding Worksheet Answers
  - Highlighting and Note-Taking Chapter 8 Covalent Bonding Worksheet Answers
  - Interactive Elements Chapter 8 Covalent Bonding Worksheet Answers
- 8. Staying Engaged with Chapter 8 Covalent Bonding Worksheet Answers
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 8 Covalent Bonding Worksheet Answers
- 9. Balancing eBooks and Physical Books Chapter 8 Covalent Bonding Worksheet Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 8 Covalent Bonding Worksheet Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 8 Covalent Bonding Worksheet Answers
  - Setting Reading Goals Chapter 8 Covalent Bonding Worksheet Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 8 Covalent Bonding Worksheet Answers

- Fact-Checking eBook Content of Chapter 8 Covalent Bonding Worksheet Answers
- 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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