

# Covalent Bonding

High School Chemistry Version

x10

## COVALENT BONDING

KEY IDEA

### COVALENT compounds

COVALENT BOND

is a bond between two atoms

COVALENT COMPOUND

is a substance that contains covalent bonds



Overlapping orbitals where electrons are shared

HELPS TOGETHER BY THE ELECTROSTATIC ATTRACT

### How covalent bonding works



Chlorine has 7 valence electrons



Carbon has 4 valence electrons

they combine to form

Shared one dot



## MOLECULES & Lewis structures

MOLECULE

LEWIS STRUCTURE



### Polar & Nonpolar Molecules

have partial charges caused by unequal sharing of electrons

do not have partial charges



### covalent properties

COVALENT PROPERTIES ARE MUCH MORE VARIOUS THAN IONIC



between molecules so they are easier to separate

which is also polar, dissolves in water, does not

Visual Guided Notes

# Glencoe Chemistry Guided Notes Chapter 9 Covalent Bonding

**Wolfgang Guggemos**



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## **Table of Contents Glencoe Chemistry Guided Notes Chapter 9 Covalent Bonding**

1. Understanding the eBook Glencoe Chemistry Guided Notes Chapter 9 Covalent Bonding
  - The Rise of Digital Reading Glencoe Chemistry Guided Notes Chapter 9 Covalent Bonding
  - Advantages of eBooks Over Traditional Books
2. Identifying Glencoe Chemistry Guided Notes Chapter 9 Covalent Bonding
  - 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 Glencoe Chemistry Guided Notes Chapter 9 Covalent Bonding
  - User-Friendly Interface
4. Exploring eBook Recommendations from Glencoe Chemistry Guided Notes Chapter 9 Covalent Bonding
  - Personalized Recommendations
  - Glencoe Chemistry Guided Notes Chapter 9 Covalent Bonding User Reviews and Ratings
  - Glencoe Chemistry Guided Notes Chapter 9 Covalent Bonding and Bestseller Lists
5. Accessing Glencoe Chemistry Guided Notes Chapter 9 Covalent Bonding Free and Paid eBooks
  - Glencoe Chemistry Guided Notes Chapter 9 Covalent Bonding Public Domain eBooks
  - Glencoe Chemistry Guided Notes Chapter 9 Covalent Bonding eBook Subscription Services
  - Glencoe Chemistry Guided Notes Chapter 9 Covalent Bonding Budget-Friendly Options
6. Navigating Glencoe Chemistry Guided Notes Chapter 9 Covalent Bonding eBook Formats

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