

CHAPTER

STUDY GUIDE

Covalent Bonding

Section 8.1 The Covalent Bond

In your textbook, read about the nature of covalent bonds.

Use each of the terms below just once to complete the passage.

covalent bond

molecule

sigma bond

exothermic

pi bond

When sharing of electrons occurs, the attachment between atoms that results is called a(n) **(1)** _____. When such an attachment is formed, bond dissociation energy is released, and the process is **(2)** _____. When two or more atoms bond by means of electron sharing, the resulting particle is called a(n) **(3)** _____. If the electrons shared are centered between the two atoms, the attachment is called a(n) **(4)** _____. If the sharing involves the overlap of parallel orbitals, the attachment is called a(n) **(5)** _____.

In your textbook, read about single and multiple bonds and bond strength.

Circle the letter of the choice that best completes the statement or answers the question.

- In what form do elements such as hydrogen, nitrogen, and oxygen normally occur?
 - as single atoms
 - as molecules containing two atoms
 - as molecules containing three atoms
 - as molecules containing four atoms
- How many electrons are shared in a double covalent bond?
 - none
 - one
 - two
 - four
- Bond length is the distance between
 - two molecules of the same substance.
 - the electrons in two attached atoms.
 - the nuclei of two attached atoms.
 - the orbitals of two attached atoms.
- Which of the following relationships relating to bond length is generally correct?
 - the shorter the bond, the stronger the bond
 - the shorter the bond, the weaker the bond
 - the shorter the bond, the fewer the electrons in it
 - the shorter the bond, the lower the bond dissociation energy

Chapter 8 Covalent Bonding Study Guide Answers

K. Peter C. Vollhardt, Neil E. Schore



Chapter 8 Covalent Bonding Study Guide Answers:

Whispering the Techniques of Language: An Psychological Journey through **Chapter 8 Covalent Bonding Study Guide Answers**

In a digitally-driven world where monitors reign great and instant communication drowns out the subtleties of language, the profound secrets and emotional nuances hidden within phrases usually move unheard. Yet, set within the pages of **Chapter 8 Covalent Bonding Study Guide Answers** a fascinating fictional treasure blinking with natural emotions, lies a fantastic quest waiting to be undertaken. Written by an experienced wordsmith, this wonderful opus invites readers on an introspective trip, delicately unraveling the veiled truths and profound influence resonating within the material of each and every word. Within the emotional depths with this emotional review, we shall embark upon a genuine exploration of the book's primary themes, dissect its charming publishing style, and succumb to the powerful resonance it evokes strong within the recesses of readers hearts.

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