

## 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 Pearson

**Steven S. Zumdahl, Paul B. Kelter**



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**Students Study Guide** Fredeen, Pearson, 2003-07      **Introductory Chemistry Study Guide** Holder, 2003-05      **Study Guide [to Accompany] General Chemistry** Dixie Goss, 2002      Chemistry William Thomas Lippincott, Frank Henry Verhoek, 1977      **Study Guide for Chemical Principles [by] Steven S. Zumdahl** Steven S. Zumdahl, Paul B. Kelter, 1995

The Study Guide reflects the unique problem solving approach taken by the Chemical Principles text The new edition of the Study Guide includes many new worked out examples      **Student Study Guide/Solutions Manual for Essentials of General, Organic, and Biochemistry** Denise Guinn, Rebecca Brewer, Rachel C. Lum, 2009-09-15 The Student Study Guide and Solutions Manual provides students with a combined manual designed to help them avoid common mistakes and understand key concepts After a brief review of each section s critical ideas students are taken through stepped out worked examples try it yourself examples and chapter quizzes all structured to reinforce chapter objectives and build problem solving techniques The solutions manual includes detailed solutions to all odd numbered exercises in the text      *Chemical Bonding - Types, Nature, Characteristics (Chemistry Quick Facts)* E Staff, Learn and review on the go Use Quick Review Chemistry Study Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Easy to remember facts to help you perform better Review all the important facts you need to know about various chemical reactions nature characteristics and more Perfect study notes for all high school health sciences premed medical and nursing students      **Atoms & Chemical Bonding Science Learning Guide** NewPath Learning, 2014-03-01 The Atoms Atomic Configuration Chemical Bonding Ionic Bonding Ionic Compounds Covalent Bonding Covalent Compounds Naming Compounds and Metallic Bonding Aligned to Next Generation Science Standards NGSS and other state standards      **Study Guide for Atoms, Molecules, and Life** Michael S. Matta, 1981

*Chemistry, Student Study Guide* James E. Brady, Fred Senese, 2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst Carbon nanotubes are a recently discovered allotrope of carbon Three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane CH<sub>4</sub> from which nanotubes and buckyballs can be made The element carbon forms an amazing number of compounds with structures that follow from simple methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet The study of chemistry also follows from the simple to the more complex and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement      *Student Study Guide and Solutions Manual to accompany General Organic and Biological Chemistry, 1e* Kenneth W. Raymond, 2005-10-07 Finally readers have a shorter less intimidating introduction to general organic and biological chemistry Not only is Raymond s text concise it also takes an integrated approach to presenting important topics in a way that makes the material easier to understand In this approach similarities can be

exploited and concepts reinforced The result is that readers see the strong connections that exist between these three branches of chemistry

*Student Study Guide/solutions Manual to Accompany Foundations of Inorganic, Organic, and Biological Chemistry* Katherine J. Denniston,1995 This student study guide has been written to accompany Foundations of Inorganic Organic and Biological Chemistry by Caret Denniston and Topping It was designed to complement the text not to be used in place of the text Each chapter of the study guide contains the following sections reorganized and expanded set of learning goals concise chapter summary in chapter solved problems list of key terms review problems Preface

*Robinson Chemistry Study Guide* Robinson,1992

Student Study Guide to Accompany Chemistry Kenneth J. Hughes,Paul B. Kelter,2002-05 Reviews essential points from the text presents problems and hints to assist the student in solving them Solutions to selected problems in the end of chapter problem sets are included By Kenneth Hughes of the University of Wisconsin Madison

**Study Guide to Accompany Chemical Principles, Properties, and Reactions** Kenneth L. Henold,1984

**Study Guide and Solutions Manual to accompany Basic Concepts of Chemistry, 9th Edition** Leo J. Malone,2011-12-07 This is the Study Guide and Solutions Manual to accompany Malone s Basic Concepts of Chemistry

**Study Guide [to Accompany] General Chemistry** James E. Brady,1982

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