

Now _____ Date _____ Class _____

CHAPTER 9 STUDY GUIDE FOR CONTENT MASTERY

Covalent Bonding

Section 9.1 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	π bond
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When sharing of electrons occurs, the attachment between atoms that results is called a(n) (1) covalent bond. When such an attachment is formed, bond dissociation

energy is released, and the process is (2) exothermic. When two or more

atoms bond by means of electron sharing, the resulting particle is called a(n)

(3) molecule. If the electrons shared are contained between the two atoms, the

attachment is called a(n) (4) sigma bond. If the sharing involves the overlap of

parallel orbitals, the attachment is called a(n) (5) π bond.

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

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

- Is what form do elements such as hydrogen, nitrogen, and oxygen normally occur?
 - as single atoms
 - as molecules containing three atoms
 - as molecules containing two atoms
 - as molecules containing four atoms
- How many electrons are shared in a double covalent bond?
 - none
 - one
 - two
 - four
- Bond lengths in 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

Study Guide for Content Mastery

Chemistry: Matter and Change • Chapter 9

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CHAPTER 9 STUDY GUIDE FOR CONTENT MASTERY

Section 9.2 Naming Molecules

In your textbook, read about how binary compounds and acids are named from their formulas.

For each statement below, write *true* or *false*.

- Binary molecular compounds are generally composed of a metal and a nonmetal. false
- The second element in the formula of a binary compound is named using the suffix *-ite*. false
- The prefix *tri-* indicates three atoms. true
- The prefix *kilo-* indicates six atoms. true
- In naming the first element in a formula, the prefix *mono-* is not used. true
- For binary acids, the hydrogen part of the compound is named using the prefix *hydro-*. true
- An oxyacid contains only two elements. false
- If the name of the cation of an oxyacid ends in *-ite*, the acid name contains the suffix *-ate*. false

In your textbook, read about naming molecular compounds and oxyacids.

For each item in Column A, write the letter of the matching item in Column B.

Column A	Column B
5. <u>c.</u> CO	a. hydrobromic acid
6. <u>i.</u> NO	b. nitrogen trioxide
7. <u>g.</u> H_2CO_3	c. carbon monoxide
8. <u>d.</u> NO_2	d. nitrous acid
9. <u>b.</u> N_2O_5	e. acetone
10. <u>f.</u> HNO_3	f. nitric acid
11. <u>h.</u> HNO_2	g. carbonic acid
12. <u>a.</u> HBr	h. boric acid
13. <u>e.</u> HBrO_3	i. carbon dioxide

Study Guide for Content Mastery

Chemistry: Matter and Change • Chapter 9

Chapter 8 Study Guide For Content Mastery

Rebecca McBride DiLiddo, Randy Moore



Chapter 8 Study Guide For Content Mastery:

Mosby's Massage Therapy Review - E-Book Sandy Fritz, 2014-02-01 Written by massage therapy expert Sandy Fritz this unique review resource prepares you for all of your massage therapy exams both routine semester exams and tests administered for licensure such as the National Certification Exam and the MBLEx This comprehensive review features updated content and questions based on the currently administered licensing exams Plus a companion Evolve website comes loaded with 8 practice exams and a variety of review activities such as labeling exercises crossword puzzles electronic coloring book games and much more And for studying on the go Mosby offers a new mobile app featuring 125 test questions No other massage review on the market gives you such complete exam preparation Full color format with 347 illustrations showing various massage techniques as well as anatomy physiology presents information in a more visual engaging way and helps you retain information better than reviewing text alone Over 1300 practice questions in the text provide the opportunity to assess your readiness for exams Over 40 labeling exercises are available throughout the book to help kinesthetic learners retain information Logical text organization presents review content with illustrations and examples followed by review questions and exams to help you hone test taking skills as you master facts learn how to apply them complete practice questions by topic and then work through a realistic exam experience Written to be versatile so it can be used to prepare for licensing exams as well as classroom exams allows you to prepare for massage licensure exams as well as your regular course load along the way Answer key printed in the back of the text with rationales provides you additional feedback so you can better understand why answers are correct or incorrect Esteemed author Sandy Fritz delivers quality content that students and instructors know they can rely on NEW Updated content and questions based on the changes to licensing exams delivers the most up to date relevant questions ensuring you ll be fully prepared to pass the current exams NEW Companion website offers 8 practice exams numerous review activities such as labeling exercises crossword puzzles Body Spectrum electronic coloring book online flashcards med term games animations and more NEW Mobile app with practice test questions offers increased flexibility to study on the go and in shorter intervals

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web annual change the variation for a charted area is shown inside the chart s compass rose it s usually written along the
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regions in the eastern region the bearing of polaris at its western elongation if eastward added to the azimuth gives the
desired variation west but if westward the bearing taken from the azimuth gives the variation west

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web grivation is calculated by adding variation and convergence algebraically in this case variation is west and convergence
is east opposite directions so the algebraic sum becomes 29 w 69 e 40 e grivation the grivation is then applied to the
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from the course measured on the chart to give an accurate magnetic bearing to fly here are a couple of quick examples true
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web the magnetic pole is currently in the far north of canada and has been for there approximately for 200 year this all means that is you are sitting in the uk a magnetic compass points approxima tely 3 5 degrees to the west of true north this difference is known a variation variation is relatively predictable and is marked on the chart

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web around uk coasts variation is around 4 west to 7 west in other parts of the world it can reach more than 50 east or west because the magnetic north pole moves the variation changes from year to year the compass rose on the chart gives the annual change around 7 east per year around the uk

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web dec 13 2010 magnetic declination also called variation is the difference between true north and magnetic north it is either east or west east declination is considered positive and west is negative charts or maps define the

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web 1 by convention declination is positive when magnetic north is east of true north and negative when it is to the west isogonic lines are lines on the earth s surface along which the declination has the same constant value and lines along which the declination is zero are called agonic lines

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web for a magnetic compass the needle will point towards magnetic north rather than true north depending on where you are on the earth s surface this difference may be as much as 30 variation may be to east or west of true north again

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web dec 14 2022 here a magnetic reading of 051 is to be converted to true using a variation of 2 e variation is east so m will be least or less than t by 2 t must be 053 in this example variation is unknown the boat may be on a course of 357 true and a hand held compass reads 001 magnetic the difference between t and m is 4 and m is

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