

Reactions of Amines and Epoxides

Preparation of Amines

Amines are colorless, basic, and have a strong, fishy odor. They are prepared by the reduction of nitriles.



A summary of Ring-Opening Reactions of Epoxides with Strong and Weak Nucleophiles



Regioselectivity and Stereochemistry

Bond Types, Strength, Length, Polarity and Dipole Moment

Types of Bonding Interactions

There are two types of bonding: ionic bonding and covalent bonding.

- **Ionic bonds** are formed by the transfer of electrons from one element to another (ionization potential) and electron affinity (electron).



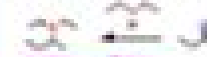
- **Covalent bonds** are formed by sharing of electrons between two atoms.



The Relative Strength of Ions



Bond and Bonding Interactions



Bonding Interactions



There are two types of bonding interactions

Definition of ionic and covalent bonds



Sigma and pi bonds

Covalent bonds are classified into sigma and pi bonds.

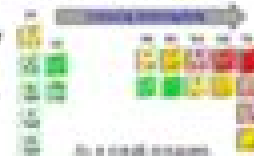
- **Sigma bonds** are formed by head-on overlap of orbitals.
- **pi bonds** are formed by side-on overlap of orbitals.
- **Single bonds** are sigma bonds.
- **Double bonds** consist of one sigma and one pi bond.



pi bonds are stronger than sigma bonds.

Polar and Nonpolar Covalent Bonds

Depending on the difference in electronegativity, covalent bonds can be polar and nonpolar.



- If the difference in electronegativity is less than 0.5, the electrons are shared equally (nonpolar).
- If the difference in electronegativity is between 0.5 and 1.7, the electrons are shared unequally (polar).
- If the difference in electronegativity is greater than 1.7, the electrons are not shared (ionic).

- A difference of 1.7 or higher is a ionic bond.
- A difference of 0.5 or higher is a polar bond.
- A difference of 0.5 or lower is a nonpolar bond.

Dipole Moment

The polarity of a bond is described by the dipole moment (μ).



- The dipole moment is a vector pointing from the less electronegative to the more electronegative atom.
- The more electronegative atom has a partial negative charge (δ⁻) and the less electronegative atom has a partial positive charge (δ⁺).
- δ⁻ (delta minus) indicates an electron deficient atom.
- δ⁺ (delta plus) indicates an electron rich atom.

Molecular Dipole

To determine the molecular polarity, the vector sum of the dipoles is used.

The geometry of the molecule is important. Symmetrical molecules are nonpolar even if the dipoles are present. A good example is carbon dioxide.



Carbon dioxide is a linear molecule and the dipoles cancel out.

Bond Length and Bond Strength

The length of a bond is important.

Bond	H-H	H-Cl	H-Br	H-I
Length	109 pm	127 pm	141 pm	154 pm
Strength	436 kJ/mol	431 kJ/mol	366 kJ/mol	298 kJ/mol

Double bonds are stronger than single bonds.

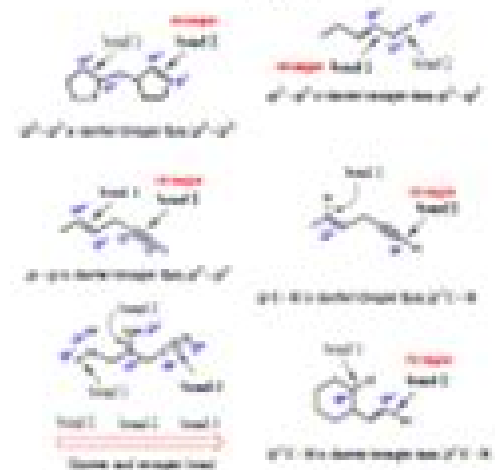


The length of a bond is important.

Average values of C-C and C-H bonds depending on hybridization			
C-C Bond	sp ³ -C-C	sp ² -C-C	sp-C-C
Hybridization	sp ³ -sp ³	sp ² -sp ²	sp-sp
Length	154 pm	134 pm	121 pm
Strength	347 kJ/mol	461 kJ/mol	591 kJ/mol
Hybridization	sp ³ -sp ²	sp ² -sp	sp-sp
Length	147 pm	133 pm	120 pm
Strength	356 kJ/mol	473 kJ/mol	591 kJ/mol

Higher s character means stronger bond

Examples



Organic Chem Study Guide

Speedy Publishing

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the 'Speedy Publishing' text.

Organic Chem Study Guide:

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Study Guide and Solutions Manual for Essential Organic Chemistry Paula Yurkanis Bruice, 2015-03-04 This Study Guide Solution Manual contains learning objectives chapter summaries and outlines as well as examples self tests and concept questions as well as complete step by step solutions to selected problems Organic Chemistry, 12e Binder Ready Version Study Guide & Student Solutions Manual T. W. Graham Solomons, Craig B. Fryhle, Scott A. Snyder, 2016-04-11 This is the Student Study Guide Solutions Manual to accompany Organic Chemistry 12th Edition The 12th edition of Organic Chemistry continues Solomons Fryhle Snyder s tradition of excellence in teaching and preparing students for success in the organic classroom and beyond A central theme of the authors approach to organic chemistry is to emphasize the relationship between structure and reactivity To accomplish this the content is organized in a way that combines the most useful features of a functional group approach with one largely based on reaction mechanisms The authors philosophy is to emphasize mechanisms and their common aspects as often as possible and at the same time use the unifying features of functional groups as the basis for most chapters The structural aspects of the authors approach show students what organic chemistry is Mechanistic aspects of their approach show students how it works And wherever an opportunity arises the authors show students what it does in living systems and the physical world around us

ORGANIC CHEMISTRY STUDY GUIDE Marc Loudon, **Organic Chemistry, Study Guide and Solutions Manual** T. W. Graham Solomons, Craig B. Fryhle, 2000 On the cover of this book is a Pacific yew tree found in the ancient forests of the Pacific Northwest The bark of the Pacific yew tree produces Taxol found to be a highly effective drug against ovarian and breast cancer Taxol blocks mitosis during eukaryotic cell division The supply of Taxol from the Pacific yew tree is vanishingly small however A single 100 year old tree

provides only about one dose of the drug roughly 300 mg For this reason as well as the spectacular molecular architecture of Taxol synthetic organic chemists fiercely undertook efforts to synthesize it Five total syntheses of Taxol have thus far been reported Now a combination of isolation of a related metabolite from European yew needles and synthesis of Taxol from that intermediate supply the clinical demand This case clearly demonstrates the importance of synthesis and the use of organic chemistry It's just one of the many examples used in the text that will spark the interest of students and get them involved in the study of organic chemistry

A Self-study Guide to the Principles of Organic Chemistry Jiben Roy, 2013 A Self Study Guide to the Principles of Organic Chemistry Key Concepts Reaction Mechanisms and Practice Questions for the Beginner will help students new to organic chemistry grasp the key concepts of the subject quickly and easily as well as build a strong foundation for future study Starting with the definition of atom the author explains molecules electronic configuration bonding hydrocarbons polar reaction mechanisms stereochemistry reaction varieties organic spectroscopy aromaticity and aromatic reactions biomolecules organic polymers and a synthetic approach to organic compounds The over one hundred diagrams and charts contained in this volume will help students visualize the structures and bonds as they read the text and make the logic of organic chemistry clear and easily understood Each chapter ends with a list of frequently asked questions and answers followed by additional practice problems Answers are included in the Appendix

Study Guide to Organic Chemistry Morrison, 2007-09 **Organic Chemistry, Study Guide** T. W. Graham

Solomons, 1988-03-08 This class tested text reflects the refinements made in previous editions while expanding updating and adding new information on many important topics Adopting a bio organic emphasis it introduces functional groups early in the text providing an overview of and preparation for subsequent discussions This edition includes increased coverage of Carbon 13 spectra an expanded treatment of conformational effects of molecules with two sections covering basic geometries of molecules and an in depth overview of the subject plus new material on transition metal chemistry and carbohydrate metabolism Worked out examples have been added to chapters on synthesis and end of chapter problems have been expanded by more than 200 The text also includes exceptional full color graphics illustrating conformational effects and general stereochemical properties of organic substances

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00Y. 0000,2005-06-01 **Organic Chemistry Fundamentals** Speedy Publishing,2014-07-03 If a student does not have a strong background chemistry and biology or if their knowledge is a little rusty and could use some refreshing a fundamentals guide to organic chemistry is an excellent way to get back into the swing of things A guide will go over the different types of bonds atomic structure and cover the important topics associated with biology that the student will need to understand before entering an organic chemistry class Furthermore study guides are much cheaper than a tutor taking another course or a textbook The guide is succinct too and will not cover unnecessary or ancillary topics that will not be relevant to an organic chemistry course Organic Chemistry Study Guide and Solutions Marc Loudon,Jim Parise,2015-07-01 Parise and Loudon s Study Guide and Solutions Manual offers the following learning aids Links that provide hints for study approaches to problem solving and additional explanations of challenging topics Further Explorations that provide additional depth on key topics Reaction summaries that delve into key mechanisms and stereochemistry Solutions to all the textbook problems Rather than providing just the answer many of the solutions provide detailed explanations of how the problem should be approached **Schaum's Outline of Theory and Problems of Organic Chemistry** Herbert Meislich,Howard Nechamkin,Jacob Sharefkin,George J. Hademenos,1999 A brief study guide to organic chemistry *Organic Chemistry* K. Peter C. Vollhardt,Neil E. Schore,1998-08 *Organic Chemistry Fundamentals (Speedy Study Guides)* Speedy Publishing LLC,2014-09-02 If a student does not have a strong background chemistry and biology or if their knowledge is a little rusty and could use some refreshing a fundamentals guide to organic chemistry is an excellent way to get back into the swing of things A guide will go over the different types of bonds atomic structure and cover the important topics associated with biology that the student will need to understand before entering an organic chemistry class Furthermore study guides are much cheaper than a tutor taking another course or a textbook The guide is succinct too and will not cover unnecessary or ancillary topics that will not be relevant to an organic chemistry course

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Table of Contents Organic Chem Study Guide

1. Understanding the eBook Organic Chem Study Guide
 - The Rise of Digital Reading Organic Chem Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Organic Chem Study Guide
 - 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 Organic Chem Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Organic Chem Study Guide
 - Personalized Recommendations
 - Organic Chem Study Guide User Reviews and Ratings
 - Organic Chem Study Guide and Bestseller Lists
5. Accessing Organic Chem Study Guide Free and Paid eBooks
 - Organic Chem Study Guide Public Domain eBooks
 - Organic Chem Study Guide eBook Subscription Services
 - Organic Chem Study Guide Budget-Friendly Options
6. Navigating Organic Chem Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Organic Chem Study Guide Compatibility with Devices
 - Organic Chem Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Organic Chem Study Guide
 - Highlighting and Note-Taking Organic Chem Study Guide
 - Interactive Elements Organic Chem Study Guide
8. Staying Engaged with Organic Chem Study Guide

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Organic Chem Study Guide
9. Balancing eBooks and Physical Books Organic Chem Study Guide
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Organic Chem Study Guide
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Organic Chem Study Guide
- Setting Reading Goals Organic Chem Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Organic Chem Study Guide
- Fact-Checking eBook Content of Organic Chem Study Guide
 - 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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