

Reactions of Amines and Epoxydes

Preparation of Amines

Ammonium hydroxide: $\text{NH}_4^+ + \text{OH}^- \rightarrow \text{NH}_3 + \text{H}_2\text{O}$



Four different types of bonds

1. Ionic bond
2. Covalent bond
3. Hydrogen bond
4. Metallic bond



The Behavior of the bond



Strong and Weak bond



Distance between atoms



Strength of different bonds



Hydrogen bond



Electrostatic bond



Covalent bond



Metallic bond



There are five types of bonding: ionic bonding and covalent bonding

- Ionic bonds are formed by the transfer of electrons from one atom to another (anions and cations) (opposite charges).



Covalent bond and polar covalent bond

- Covalent bonds are classified as regular (non-polar) or polar.
- Regular bonds are formed by the same bonding of atoms.
- Covalent bonds are formed by different bonding of atoms.
- Very simple bond is a covalent bond.
- Non-polar covalent bond consists of two regular and identical.



Non-polar covalent bond

Polar and Nonpolar Covalent Bonds

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

- If the difference in electronegativity is less than 0.4, the electrons are shared equally between the two atoms. Forming a regular or non-polar bond. (Non-polar covalent bonds are the C-C and C-H bonds.)
- If the difference in electronegativity is between 0.5 and 1.7, the more polar covalent bond. Nonpolar covalent bonds are the carbon-carbon bonds in N, O, F and other halogens.
- A difference of 1.7 or higher one of both the electrons are shared and one bond is formed.

A Summary of Ring-Opening Reactions of Epoxydes with Strong and Weak Protagonists



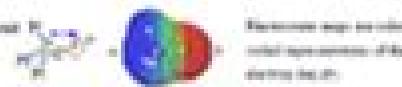
Protagonists and Antagonists

Bond Types, Strength, Length, Polarity and Dipole Moment

Dipole Moment

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

1. Nonpolar covalent bond
2. Polar covalent bond
3. Ionic bond



- The dipole moment is shown as a vector pointing from the less electronegative toward the more electronegative atom.
- The vector represents the size for a partial negative charge and the less electronegative atom, a partial positive charge (O).
- The dipole plot indicates the charge difference.
- The dipole moment is shown as a distance and area.

Molecular Dipole

To measure the molecular polarity, the sum of the dipole is used.

The polarity of the molecule is equal to the sum of the dipole moment. The polar value for dipole moment is measured. A good example is water, dipole.



Water has a net molecular dipole moment.

Bond Length and Bond Strength

Relative bond length



Bond length: C-C > C-O > C-Cl > C-F

Strength: C-C < C-O < C-Cl < C-F

Electrostatic bond > Covalent bond > Ionic bond

Nonpolar covalent bond > Polar covalent bond

Weak bond > Strong bond

Relative bond strength

Average values of C-C and C-O bond depending on the distance

C-C bond: 1.54 \AA , 1.54 eV , 100 kJ/mol

Hydrogen bond: 1.15 \AA , 1.15 eV , 10 kJ/mol

Length: 1.15 \AA , 1.15 \AA , 1.15 \AA

Strength: 100 kJ/mol , 10 kJ/mol , 10 kJ/mol

Hydrogen bond: 10 kJ/mol , 10 kJ/mol , 10 kJ/mol

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Organic Chemistry Reactions Study Guide

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Organic Chemistry Reactions Speedy Publishing, 2014-09-03 Students of organic chemistry are expected to consume much information in a relatively short period of time. Most have had no clue to the expanse of knowledge that organic chemistry explores. Students are required to memorize elements and molecules that are commonly used in organic chemistry. Additionally, they are required to memorize formulas and chemical reactions, which is clearly the most difficult part of the course. Having an organic chemistry reaction study guide can help the student by supplying a quick reference to the most commonly used reactions. The guide can be reviewed when the student has some down time.

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[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 Chemical Reactions](#) Milin Kurup, 2020-01-06 This Organic Study Guide and workbook was created by the author in hopes to

help students have an organized collection of all reactions studied in Organic 1 and Organic 2 With multiple reactions in different categories an organized study guide can help students focus on certain reactions as needed Many students in this class also have hopes of using this study guide as an MCAT review guide this organized set can be useful for students to review before class exams and standardized test With comprehensive notes reactions and tips this study guide will help everyone succeed This was created by a renowned student Milin Kurup at the University of Florida double majoring in Microbiology and Cognitive and Behavioral Neuroscience As a student of Professor Dr Laura Peterson UF Chemistry Organic Division this guide included all notes a series of 140 chemical reactions and key mechanisms necessary for a comprehensive understanding of the subject *Organic Chemistry Study Guide* Robert J. Ouellette,J. David Rawn,2014-11-04 Organic Chemistry Study Guide Key Concepts Problems and Solutions features hundreds of problems from the companion book Organic Chemistry and includes solutions for every problem Key concept summaries reinforce critical material from the primary book and enhance mastery of this complex subject Organic chemistry is a constantly evolving field that has great relevance for all scientists not just chemists For chemical engineers understanding the properties of organic molecules and how reactions occur is critically important to understanding the processes in an industrial plant For biologists and health professionals it is essential because nearly all of biochemistry springs from organic chemistry Additionally all scientists can benefit from improved critical thinking and problem solving skills that are developed from the study of organic chemistry Organic chemistry like any skill is best learned by doing It is difficult to learn by rote memorization and true understanding comes only from concentrated reading and working as many problems as possible In fact problem sets are the best way to ensure that concepts are not only well understood but can also be applied to real world problems in the work place Helps readers learn to categorize analyze and solve organic chemistry problems at all levels of difficulty Hundreds of fully worked practice problems all with solutions Key concept summaries for every chapter reinforces core content from the companion book *Study Guide and Solutions Manual for Organic Chemistry* Susan McMurry,John McMurry,1988

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 **Study Guide and Solutions Manual for McMurry's Organic Chemistry, Fifth Edition** Susan McMurry,2000 Provides answers and explanations to all in text and end of chapter exercises Also includes summaries of name reactions functional group synthesis and reactions lists of reagents and abbreviations and articles on topics ranging from infrared absorption frequencies to the

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Organic Chemistry Mechanisms: Study and Review

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PSI Study Guide for Organic Chemistry by Douglas C. Neckers, Michael P. Doyle

E. C. Blossey, 1977

Organic 1 and 2 Chemical Reactions Study Guide

Milin Kurup, 2020-04-22 This Organic Study Guide and workbook was created by the author in hopes to help students have an organized collection of all reactions studied in Organic 1 and Organic 2 Many students in this class also have hopes of using this study guide as an MCAT review guide this organized set can be useful for students to review before class exams and standardized test This was created by a renowned student Milin Kurup at the University of Florida double majoring in Microbiology and Cognitive and Behavioral Neuroscience As a student of Professor Dr Laura Peterson UF Chemistry Organic Division this guide included all notes a series of 140 chemical reactions and key mechanisms necessary for a comprehensive understanding of the subject

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

Solutions Manual and Study Guide to Accompany Introduction to Organic Chemistry, 4th Ed Paul A. Bartlett, Judith G. Koch, 1992

Organic Chemistry Reactions

BarCharts, Inc, Mark Jackson, 2015-12-31 Quick Reference for the core essentials of a subject and class that is challenging at best and that many students struggle with In 6 laminated pages our experienced chemistry author and professor gathered key elements organized and designed to use along with your text and lectures as a review before testing or as a memory companion that keeps key answers always at your fingertips As many students have said a must have study tool Suggested uses o Quick Reference instead of digging into the textbook to find a core answer you need while studying use the guide to reinforce quickly and repeatedly o Memory refreshing your memory repeatedly is a foundation of studying have the core answers handy so you can focus on understanding the concepts o Test Prep no student should be cramming but if you are there is no better tool for that final review

Organic Chemistry, Study Guide T. W. Graham Solomons, 1996

This supplement accompanies an updated text which features more than 350 new problems Carbonyl chemistry is now covered in consecutive chapters The concept of ionic reactions is consolidated before students move on to study radical reactions

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Study Guide and Solutions Manual to Accompany The Essence of Organic Chemistry Jane M. Cram, Donald J. Cram, 1978

Study Guide & Solutions Manual to Accompany Organic Chemistry, Third Edition G. Marc Loudon, Joseph G. Stowell, 1995

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Table of Contents Organic Chemistry Reactions Study Guide

1. Understanding the eBook Organic Chemistry Reactions Study Guide
 - The Rise of Digital Reading Organic Chemistry Reactions Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Organic Chemistry Reactions 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 Chemistry Reactions Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Organic Chemistry Reactions Study Guide
 - Personalized Recommendations
 - Organic Chemistry Reactions Study Guide User Reviews and Ratings
 - Organic Chemistry Reactions Study Guide and Bestseller Lists
5. Accessing Organic Chemistry Reactions Study Guide Free and Paid eBooks

- Organic Chemistry Reactions Study Guide Public Domain eBooks
 - Organic Chemistry Reactions Study Guide eBook Subscription Services
 - Organic Chemistry Reactions Study Guide Budget-Friendly Options
6. Navigating Organic Chemistry Reactions Study Guide eBook Formats
- ePUB, PDF, MOBI, and More
 - Organic Chemistry Reactions Study Guide Compatibility with Devices
 - Organic Chemistry Reactions Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Organic Chemistry Reactions Study Guide
 - Highlighting and Note-Taking Organic Chemistry Reactions Study Guide
 - Interactive Elements Organic Chemistry Reactions Study Guide
8. Staying Engaged with Organic Chemistry Reactions Study Guide
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Organic Chemistry Reactions Study Guide
9. Balancing eBooks and Physical Books Organic Chemistry Reactions Study Guide
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Organic Chemistry Reactions Study Guide
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Organic Chemistry Reactions Study Guide
- Setting Reading Goals Organic Chemistry Reactions Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Organic Chemistry Reactions Study Guide
- Fact-Checking eBook Content of Organic Chemistry Reactions 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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