

ORGANIC CHEMISTRY

REACTIONS

FEATURES OF AN ORGANIC REACTION

Mechanism: Describes the overall reaction using a series of step-by-step steps.
Reactants: Contains reactants and product species using the following equations and reaction schemes.
Reaction: The study of the reaction rate and mechanisms.

Theoretical yield: Mass of product given by a complete reaction.

Actual yield: Theoretical yield multiplied by efficiency.

Equilibrium: Reaction does not proceed to completion, instead it reaches a balanced state of forward and reverse reactions.

Major reaction types:

- Acid
- Base
- Oxidation/Reduction
- Condensation
- Substitution (SN1, SN2)
- Rearrangement

- Esterification (E1, E2)
- Esters
- Hydrolysis
- Addition
- Radical Reactions

Important named reactions:

- Fries: Nitro group on ortho position
- Friedel-Crafts: Alkyl or aryl group
- Kolbe: Addition of alkene to water
- Wittig: Reaction of phosphorus with alkene
- Wittig-Horner: Reaction of phosphorus with alkene
- Wittig-Horner-Alten: Reaction of phosphorus with alkene

ENZYME AND CATALYST MECHANISMS



Transition state (TS): Minimum on the reaction coordinate curve, the least stable intermediate.

Activation Energy (Ea): Energy of the TS relative to the reactant. The change in enthalpy (ΔHrxn) is +10 for exotherms, -10 for endotherms.

Transition State potential: The TS is more like the reactant or product that is absent in energy. Endotherms: TS is like the product, exotherms: TS is like the reactant.

Kinetic vs. thermodynamic control: SN1 and E1 describe thermodynamic control.

- If ΔHrxn is large and negative (exothermic), the product becomes so likely controlled by "thermodynamic".
- Large ΔHrxn corresponds to a large amount of product relative to reactants.

- A large ΔHrxn gives rise to "kinetic" control, the energy of the TS controls the reaction, instead of the product controls thermodynamics.

Reactive solvents: A solvent may stabilize an intermediate, decreasing E_a and increasing the rate of the reaction. Charged complexes are stabilized by polar solvents.

ORGANIC ADD AND BASE

Acid:

- Electronegative acceptor of proton
- Proton donor (donates & reacts with, accepts electron pair)

Base:

- Electronegative donor (accepts & reacts with, donates electron pair)
- Proton acceptor (reacts with & donates proton)

Acid-base indicators and strengths (pKa):

- Neutral (H-A bond)
- Common acid-base indicators of "A":
- Neutralization of acid-base on "A" indicates addition of electron density
- Below "A" electron is hybrid orbital (indicates to base as strong as proton)
- Alkaline: additional conjugate base (A-)

Acid-base indicators: Some strengths:

- It has a pKa value. It reacts with the base with the highest pKa strength.

ALKANE

Properties:

- Nonpolar
- Weak intermolecular forces
- Nonpolar general formula C_nH_{2n+2}
- Branched $C-C$ (isomers)

Physical properties:

- Solid -gas - liquid
- Liquids: solubility by position & branching
- Branched: solubility halved for H

Cycloalkane (C_nH_{2n}):

- Bicyclic: two fused or bridged rings
- 1,2-cyclohexadiene: slightly aromatic
- 1,3-cyclohexadiene: lower stability
- 1,4-cyclohexadiene: slightly polarizing
- 1,5-cyclohexadiene: electron-rich
- Branched: branched = branched
- Branched: branched = branched = "perpendicular" to ring. A "perpendicular" position is ring "system".
- Branched: C_6H_{12} in chair diagram folded = C_6H_{12} - two substituents in eq position
- Branched: one up and one down



Properties:

- Hydrogenation alkene or alkyne (H_2 , H_2O , CO)
- Electrophilic addition of H_2
- Radical addition of H_2
- Radical H_2 adds alkyne

Reactions:

- Electrophilic addition: $H_2 + C_2H_4 \rightarrow C_2H_6$
- Electrophilic addition: $H_2 + C_2H_2 \rightarrow C_2H_4$

ALKENE $\text{X}-\text{C}=\text{C}-\text{Y}$

Properties: Similar to alkenes, more polar. Branched hydrocarbons.

- Acid: one or two polar, like $\text{X}-\text{C}=\text{C}-\text{Y}$ groups
- Branched $C-C$ (1,4-1,4-1,4), unsaturation: $C=C=C$
- Branched: addition $C-C$ (1,4-1,4)
- Branched: addition $C-C$
- Weak group: $\text{H}_2\text{C}=\text{CH}_2$
- Moderate group: $\text{CH}_2=\text{CH}_2$
- Strong group: $\text{CH}_2=\text{CH}-\text{CH}_3$
- Weak acidity: $\text{H}_2\text{C}=\text{CH}_2$ \rightarrow $\text{H}_2\text{C}=\text{CH}-\text{CH}_3$
- Branched: addition $C-C$ and $C=C$ (unsaturation)
- Branched: 2 branched $C-C$, unsaturation: $\text{CH}_2=\text{CH}-\text{CH}_2-\text{CH}_3$
- Alkenes: 1 branched $C-C$
- Branched: conjugated unsaturation: unsaturation (1,4-1,4) \rightarrow $\text{H}_2\text{C}=\text{CH}-\text{CH}_2-\text{CH}_3$
- Branched: higher order unsaturation: unsaturation (1,4-1,4) \rightarrow $\text{H}_2\text{C}=\text{CH}-\text{CH}_2-\text{CH}_3$

Isomers on the reaction of $C=C$:



- ESR: pentavalent groups. No atomic weight of -. Higher atomic weight on the same value
- Branched: one or three stable isomers (isobutane, tert-butane, sec-butane)
- Branched: H_2 from the branched alkene
- Markovnikov: addition of water to $C=C$ with more H's
- Zaitsev: Elimination: forms alkene with more carbons

Properties:

- Electrophilic addition (H_2 , H_2O , CO)
- Electrophilic addition: H_2 (alkene, H_2)
- Electrophilic addition: H_2O (alkene, H_2O)
- Electrophilic addition: CO (alkene, CO)
- Radical: H_2 (alkene, H_2)
- Radical: H_2O (alkene, H_2O)
- Radical: CO (alkene, CO)
- Strong: H_2 (alkene, H_2)
- Moderate: H_2O (alkene, H_2O)
- Weak: CO (alkene, CO)

Reactions:

- Conjugation (H_2)
- Addition to H_2 : $\text{H}_2 + \text{CH}_2 \rightarrow \text{CH}_3\text{H}_2$ (alkane)
- Addition to H_2O : $\text{H}_2 + \text{CH}_2 \rightarrow \text{CH}_3\text{H}_2\text{O}$ (alkane)
- Addition to CO : $\text{H}_2 + \text{CH}_2 \rightarrow \text{CH}_3\text{H}_2\text{O}$ (aldehyde)
- Electrophilic addition: H_2 (alkene, H_2)
- Electrophilic addition: H_2O (alkene, H_2O)
- Electrophilic addition: CO (alkene, CO)
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Organic Chemistry Reactions Quickstudy Academic

**Barron's Educational Series, Mark
Kernion, Joseph A. Mascetta**

Organic Chemistry Reactions Quickstudy Academic:

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 *Barron's Chemistry Practice Plus: 400+ Online Questions and Quick Study Review* Barron's Educational Series,Mark Kernion,Joseph A. Mascetta,2022-07-05 Barron's Chemistry Practice Plus features more than 400 online practice questions and a concise review guide that covers the basics of Chemistry Inside you'll find concise review on the basics of Chemistry an excellent resource for students who want a quick review of the most important topics access to 400 online questions arranged by topic for customized practice online practice includes answer explanations with expert advice for all questions plus scoring to track your progress This essential guide is the perfect practice supplement for students and teachers

Pp/Chemistry BarCharts, Inc.,2008-06-18 *Organic Chemistry Reactions* BarCharts, Inc,2015 **CLASS 10 SCIENCE EXPLORER The Quick Study** Punam Maggon,2026-01-08 This book is based on the CBSE curriculum and aims to provide students with a clear and concise understanding of key scientific concepts It contains the definitions of various terms that students need to learn to better grasp the subject matter and apply it effectively in their studies By offering simplified explanations this book serves as a valuable tool for quick revision helping students strengthen their foundational knowledge In addition to the theoretical content the book incorporates a variety of illustrations and diagrams to make the learning process more engaging and visually appealing The inclusion of these visuals helps to break down complex ideas into easily digestible chunks and fosters a deeper understanding of the material Each chapter is carefully structured to present the facts and concepts in a straightforward and approachable manner ensuring that even challenging topics are made simple for students to comprehend It is my firm belief that science when taught interactively and engagingly becomes not just a subject to study but a fascinating journey of discovery With this in mind I have tried to create a resource that not only helps students excel academically but also sparks their curiosity and encourages them to explore the world around them I sincerely hope that this book will prove to be a useful companion for students and teachers alike offering both clarity and inspiration Punam Maggon **Organic Chemistry Fundamentals** 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 Reactions Mark Jackson,2001-09-19 This guide is packed with useful and up to date information regarding Organic Chemistry Reactions The laminated 4 page guide contains information on features of an organic reaction kinetics reaction mechanism organic acid base benzene arene alkyne alcohol and much more

ADVANCED ORGANIC CHEMISTRY: REACTIONS, MECHANISMS AND STRUCTURE, 4TH ED March,2006 Market Desc Professors in Organic Chemistry Students in Organic Chemistry Organic Chemists Special Features The book Describes the structure of organic compounds including chemical bonding and stereochemistry Reviews general reaction mechanisms including ordinary reactions and photochemical reactions Includes a survey of reactions arranged by reaction type and by which bonds are broken and formed Includes IUPAC s newest system for designating reaction mechanisms Features an index to the methods used for preparing given types of compounds Contains more than 15 000 references 5 000 new to this edition to original papers About The Book The book covers the three fundamental aspects of the study of organic chemistry reactions mechanisms and structure Part One explores the structure of organic compounds providing the necessary background for understanding mechanisms Part Two discusses reactions and mechanisms Organized by reaction type each of these chapters discusses the basic mechanisms along with reactivity and orientation as well as the scope and mechanisms of each reaction

Organic Chemistry Fundamentals BarCharts, Inc,2015 **Understanding Organic Reaction Mechanisms** Adam Jacobs,1997-07-17 This book describes the principles that govern chemical reactivity and shows how these principles can be used to make predictions about the mechanisms and outcomes of chemical reactions Molecular orbital theory is used to provide up to date explanations of chemical reactivity in an entirely nonmathematical approach suited to organic chemists A valuable section explains the use of curly arrows vital for describing reaction mechanisms An entire chapter is devoted to exploring the thought processes involved in predicting the mechanisms of unfamiliar reactions Each chapter is followed by a summary of the important points and a selection of problems to help the reader make sure that the material in that chapter has been assimilated The book concludes with a comprehensive glossary of technical terms This text will be of interest to first and second year chemistry undergraduates studying 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

Advanced Organic Chemistry Jerry March,1985 This survey of advanced chemistry covers virtually all the useful reactions 600 all told with the scope limitations and mechanism of each described in detail Extensive general sections on the mechanisms of the important reaction types and five chapters on the structure and stereochemistry of organic compounds and reactive intermediates are included as well Of the more than 10 000 references included 5 000 are new in this edition

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

Organic Chemistry Reactions: A Study Guide Cybellium,2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you're a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www.cybellium.com

Advanced Organic Chemistry ,2001 **Advanced Organic Chemistry** Francis A. Carey,1977 **Organic Chemistry Reactions (Speedy Study Guide)** Speedy Publishing LLC,2014-09-04 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

Named Organic Reactions

Thomas Laue,Andreas Plagens,2005-08-19 This Second edition contains concise information on 134 carefully chosen named organic reactions the standard set of undergraduate and graduate synthetic organic chemistry courses Each reaction is detailed with clearly drawn mechanisms references from the primary literature and well written accounts covering the mechanical aspects of the reactions and the details of side reactions and substrate limitations For the 2nd edition the complete text has been revised and updated and four new reactions have been added Baylis Hillmann Reaction Sonogashira Reaction Pummerer Reaction and the Swern Oxidation und Cyclopropanation An essential text for students preparing for exams in organic chemistry **Summary of International Energy Research and Development Activities** Smithsonian Science Information Exchange,1974 **Advanced Organic Chemistry: Reactions and Mechanisms** Singh, Maya Shankar,2004 Advanced Organic Chemistry Reactions and Mechanisms covers the four types of reactions substitution addition elimination and rearrangement the three types of reagents nucleophiles electrophiles and radicals and the two effects electroni

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