



### Time Allocation

|                   |       |
|-------------------|-------|
| Teaching periods  | = 15  |
| Assessment period | = 03  |
| Weightage         | = 15% |

## MAJOR CONCEPTS:

- 3.1 Organic Compounds
- 3.2 Sources of Organic Compounds
- 3.4 Uses of Organic Compounds
- 3.5 Alkanes and Alkyl Radicals
- 3.6 Nomenclature of simple Alakne, Alkenes and Alkynes
- 3.7 Introduction to Functional Groups

## STUDENTS LEARNING OUT COMES (SLO'S)

- ☺ Recognize structural, condensed, and molecular formulas of the straight chain hydrocarbons up to ten carbon atoms. (Remembering)
- ☺ Identify some general characteristics of organic compounds. (Remembering)
- ☺ Explain the diversity and magnitude of organic compounds. (Understanding)
- ☺ List some sources of organic compounds (Remembering)
- ☺ List the uses of organic compounds (remembering)
- ☺ Recognize and identify a molecule's functional groups.(Remembering)
- ☺ Distinguish between saturated and unsaturated hydrocarbons. (Understanding)
- ☺ Name the alkanes up to decane, alkenes up to decene and alkynes up to decyne (Remembering)
- ☺ Modify alkanes into alkyl radicals. (Applying)
- ☺ Differentiate between alkanes and alkyl radicals. (Analyzing)
- ☺ Define functional group. (Remembering)
- ☺ Differentiate between different organic compounds on the basis of their functional groups. (Analyzing)
- ☺ Classify organic compounds into straight chain, branched chain and cyclic compounds. (Understanding)

# Organic Chemistry Chapter 3

**Francis A. Carey, Richard J. Sundberg**



### **Organic Chemistry Chapter 3:**

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**Organic Chemistry** Penny Chaloner, 2014-12-15 Offering a different more engaging approach to teaching and learning Organic Chemistry A Mechanistic Approach classifies organic chemistry according to mechanism rather than by functional group The book elicits an understanding of the material by means of problem solving instead of purely requiring memorization The text enables a deep understanding of underlying principles that can be applied to a wide range of problems and systems It also teaches a way of thinking and analysis that will serve students well across many academic disciplines Covering all the key aspects of organic chemistry this text emphasizes the development of skills through a student centered approach In order to provide a contemporary feel to the subject the author has included some of the more modern synthetic approaches In addition later chapters address the biological environmental industrial and forensic aspects of organic chemistry Pedagogical Features Extensive review problems which are the central means of integrating the material Focus boxes that highlight key points in the chapters An instructors website with full lecture notes in animated PowerPoint a solutions manual in both Word and PowerPoint format and additional problems for use in tests A student website with solutions to review problems and additional challenging problems and solutions for the ambitious in animated PowerPoint and text versions

**Advanced Organic Chemistry** Francis A. Carey, Richard J. Sundberg, 2007-09-06 The two part fifth edition of Advanced Organic Chemistry has been substantially revised and reorganized for greater clarity The material has been updated to reflect advances in the field since the previous edition especially in computational chemistry Part B describes the most general and useful synthetic reactions organized on the basis of reaction type It can stand alone together with Part A Structure and Mechanisms the two volumes provide a comprehensive foundation for the study in organic chemistry Companion websites provide digital models for students and exercise solutions for instructors

**Workbook for Organic Chemistry** Jerry Jenkins, 2009-12-25 With authors who are both accomplished researchers and educators Vollhardt and Schore s Organic Chemistry is proven effective for making contemporary organic chemistry accessible introducing cutting edge research in a fresh student friendly way A wealth of unique study tools help students organize and understand the substantial information presented in this course And in the sixth edition the themes of understanding reactivity mechanisms and synthetic analysis to apply chemical concepts to realistic situations has been strengthened New applications

of organic chemistry in the life sciences industrial practices green chemistry and environmental monitoring and clean up are incorporated This edition includes more than 100 new or substantially revised problems including new problems on synthesis and green chemistry and new challenging problems

**Foundations of Organic Chemistry** David R. Dalton, 2020-08-11 Learn the fundamentals and foundations of modern organic chemistry with this comprehensive guide Foundations of Organic Chemistry Unity and Diversity of Structures Pathways and Reactions 2nd Edition is a substantive guide for students beginning their study of organic chemistry and instructors as well as senior undergraduates and graduate students seeking to further their understanding of the subject Foundations of Organic Chemistry is a serious attempt to show students who want to learn organic chemistry how we know what we know about the subject and to guide them to learn In this work the emphasis of the discussion of structures pathways and reactions is placed on the original literature and the fundamentals and use of spectroscopic and kinetic tools Application of the resulting working knowledge of the substance of organic chemistry will lead the serious student to ask additional questions and ultimately to solve problems we face The book also includes solutions guides for instructors and lecturers as well as access to a companion website for furthering the reader's knowledge of organic chemistry

**Organic Chemistry from Retrosynthesis to Asymmetric Synthesis** Vitomir Šunjić, Vesna Petrović Peroković, 2016-04-30 This book connects a retrosynthetic or disconnection approach with synthetic methods in the preparation of target molecules from simple achiral ones to complex chiral structures in the optically pure form Retrosynthetic considerations and asymmetric syntheses are presented as closely related topics often in the same chapter underlining the importance of retrosynthetic consideration of target molecules neglecting stereochemistry and equipping readers to overcome the difficulties they may encounter in the planning and experimental implementation of asymmetric syntheses This approach prepares students in advanced organic chemistry courses and in particular young scientists working at academic and industrial laboratories for independently solving synthetic problems and creating proposals for the synthesis of complex structures

**Organic Synthesis** Michael Smith, 2011-07-12 The first two chapters provide an introduction to functional groups these are followed by chapters reviewing basic organic transformations e.g. oxidation reduction The book then looks at carbon carbon bond formation reactions and ways to disconnect a bigger molecule into simpler building blocks Most chapters include an extensive list of questions to test the reader's understanding There is also a new chapter outlining full retrosynthetic analyses of complex molecules which highlights common problems made by scientists

**March's Advanced Organic Chemistry** Michael B. Smith, 2020-02-19 The completely revised and updated definitive resource for students and professionals in organic chemistry The revised and updated 8th edition of March's Advanced Organic Chemistry Reactions Mechanisms and Structure explains the theories of organic chemistry with examples and reactions This book is the most comprehensive resource about organic chemistry available Readers are guided on the planning and execution of multi step synthetic reactions with detailed descriptions of all the reactions The opening chapters of March's Advanced Organic

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### **Table of Contents Organic Chemistry Chapter 3**

1. Understanding the eBook Organic Chemistry Chapter 3
  - The Rise of Digital Reading Organic Chemistry Chapter 3
  - Advantages of eBooks Over Traditional Books
2. Identifying Organic Chemistry Chapter 3
  - 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 Chapter 3
  - User-Friendly Interface
4. Exploring eBook Recommendations from Organic Chemistry Chapter 3
  - Personalized Recommendations
  - Organic Chemistry Chapter 3 User Reviews and Ratings

- Organic Chemistry Chapter 3 and Bestseller Lists
- 5. Accessing Organic Chemistry Chapter 3 Free and Paid eBooks
  - Organic Chemistry Chapter 3 Public Domain eBooks
  - Organic Chemistry Chapter 3 eBook Subscription Services
  - Organic Chemistry Chapter 3 Budget-Friendly Options
- 6. Navigating Organic Chemistry Chapter 3 eBook Formats
  - ePub, PDF, MOBI, and More
  - Organic Chemistry Chapter 3 Compatibility with Devices
  - Organic Chemistry Chapter 3 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Organic Chemistry Chapter 3
  - Highlighting and Note-Taking Organic Chemistry Chapter 3
  - Interactive Elements Organic Chemistry Chapter 3
- 8. Staying Engaged with Organic Chemistry Chapter 3
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Organic Chemistry Chapter 3
- 9. Balancing eBooks and Physical Books Organic Chemistry Chapter 3
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Organic Chemistry Chapter 3
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Organic Chemistry Chapter 3
  - Setting Reading Goals Organic Chemistry Chapter 3
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Organic Chemistry Chapter 3
  - Fact-Checking eBook Content of Organic Chemistry Chapter 3
  - 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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