

# Unit 2 Study Guide

Organic Chemistry I: Chapters 4-6

## Chapter 4: Alkanes

### Key terms

Hydrocarbon	Newman Projection	Torsional strain
Conformation	Angle strain	Steric strain
Dihedral angle	gauche interactions	1,3-diaxial interactions

### Concepts and applications

- Determine the IUPAC name of alkanes, cycloalkanes, and bicycloalkanes given their structure
- Draw the structure of alkanes, cycloalkanes, and bicycloalkanes given their IUPAC name
- Recognize or draw constitutional isomers of alkanes
- Describe the effect of chain length and/or branching on physical properties
- Draw a Newman project of a provided bond-line structure
  - Draw all possible conformations
  - Determine most and least stable conformer
  - Calculate the total energy of a conformation (you should know the energy values of H/H and H/CH<sub>3</sub>)
- Identify the types of strain that are present in a given structure
- Draw chair conformations from bond-line structure of cyclohexane compounds
  - Correctly place axial and equatorial positions
  - Correctly draw cis-/trans-isomers
  - Determine the most stable conformation

## Chapter 5: Stereochemistry

### Key terms

Stereoisomers	Chirality	Optical activity
Enantiomer	Diastereomer	Meso

### Concepts and applications

- Determine the IUPAC name of alkanes including stereochemistry given their structure
- Draw the structure of alkanes with correct stereochemistry given their IUPAC name
- Identify chiral centers/stereocenter in a molecule
- Determine the total number of potential stereoisomers for a compound (2<sup>n</sup>)

# Chemistry Unit 2 Study Guide

**Susan McMurry**



## **Chemistry Unit 2 Study Guide:**

This book delves into Chemistry Unit 2 Study Guide. Chemistry Unit 2 Study Guide is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Chemistry Unit 2 Study Guide, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Chemistry Unit 2 Study Guide
- Chapter 2: Essential Elements of Chemistry Unit 2 Study Guide
- Chapter 3: Chemistry Unit 2 Study Guide in Everyday Life
- Chapter 4: Chemistry Unit 2 Study Guide in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Chemistry Unit 2 Study Guide. The first chapter will explore what Chemistry Unit 2 Study Guide is, why Chemistry Unit 2 Study Guide is vital, and how to effectively learn about Chemistry Unit 2 Study Guide.

3. In chapter 2, the author will delve into the foundational concepts of Chemistry Unit 2 Study Guide. This chapter will elucidate the essential principles that must be understood to grasp Chemistry Unit 2 Study Guide in its entirety.

4. In chapter 3, this book will examine the practical applications of Chemistry Unit 2 Study Guide in daily life. The third chapter will showcase real-world examples of how Chemistry Unit 2 Study Guide can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Chemistry Unit 2 Study Guide in specific contexts. The fourth chapter will explore how Chemistry Unit 2 Study Guide is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Chemistry Unit 2 Study Guide. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Chemistry Unit 2 Study Guide.

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