

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/CH₃)
- 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 (2ⁿ)

Chemistry Unit 2 Study Guide

Roman Wölfel



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