

FINAL EXAM Summary Sheet

Potential Study Questions

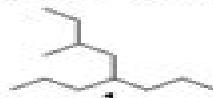
***Disclaimer:** The following are potential topics for exam questions and sample questions; the exam may or may not contain these questions, and questions not included in this sheet may or may not be on the exam. There also may be types in this sheet.*

ALKANES

Physical Properties

- Hydrocarbons, dispersion forces, non-polar, not miscible w/water, low density
- sp^3 hybridized carbon: C-C, C-H bonds, electronegativity, MO theory & orbitals
- m.p.: odd/even effect
- b.p.: C1-4: gases; C5-17: liquids, C18 and up: solids
- linear, branched, cyclics, chirality (incl. optical activity, D/L, R/S, dL, +/ -),
- non-equivalent carbons
- isomers: constitutional, conformational isomers, stereo-isomers
- naming: special groups:
 - o Me, Et, Pr, Bu
 - o iPr, iBu, sec-Bu, tBu
 - o neopentyl

***Task:** Name compounds 1 and 2; identify any chiral centers and # of chemically non-equivalent carbons; where would the compounds absorb in IR or UV-vis? Identify the participating orbitals.*



- Rotational/conformational isomers = conformations
 - o eclipsed
 - values: H/H; CH₃/H; CH₃/CH₃
 - o staggered, anti, gauche
 - value: gauche: CH₃/CH₃

***Task:** draw an energy rotational energy plot (360°) for pentane along C2-C3 bond*

- Cycloalkanes:
 - o Spiro, fused, bridged: naming
 - o Heats of combustion: ring strains (angle, torsional, sterics)
 - o Cis/trans
 - o 1,3-diaxial interactions
 - value H/CH₃
 - o Ring-flip for cyclohexane

Organic Final Study Guide

Kim Heldman

Organic Final Study Guide:

Study Guide with Solutions to Accompany Burgoyne, A Study Course in Organic Chemistry N. Sue Barnes, 1979

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PhD,2024-11-10 Organic Chemistry A Comprehensive Guide for Students and Professionals Unlock the Secrets of Organic Chemistry with Clear Explanations and Practical Applications Dive into the world of organic chemistry with this in depth guide designed for students and professionals alike Covering all essential concepts from molecular structures to complex reactions this book provides Detailed Explanations Understand foundational principles with clear accessible language Step by Step Reactions Learn key reaction mechanisms with step by step guidance Practice Problems Solutions Test your knowledge and master concepts with a range of practice problems and detailed solutions Real World Applications Explore

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