

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 typos 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, d/l , $+/-$),
- 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 in 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

Acs Exam Organic Study Guide

Jiyuan Zhang



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Preparing for Your ACS Examination in Organic Chemistry I. Dwaine Eubanks, Lucy T. Eubanks, 2002-01-01

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education and improve student outcomes *Chemists' Guide to Effective Teaching* Norbert J. Pienta, Melanie M. Cooper, Thomas J. Greenbowe, 2005 For courses in Methods of Teaching Chemistry Useful for new professors chemical educators or students learning to teach chemistry Intended for anyone who teaches chemistry or is learning to teach it this book examines applications of learning theories presenting actual techniques and practices that respected professors have used to implement and achieve their goals Each chapter is written by a chemist who has expertise in the area and who has experience in applying those ideas in their classrooms This book is a part of the Prentice Hall Series in Educational Innovation for Chemistry *ACS General Chemistry* Sterling Test Prep, 2022-10-06 *Organic Chemistry* K. Peter C. Vollhardt, Neil E. Schore, 2006-03-31 **Organic Chemistry** K. Peter C. Vollhardt, American Chemical Society, Neil E. Schore, 2006-01-20 ACS General Chemistry Study Guide Joshua Rueda, 2023-04-12 Test Prep Books ACS General Chemistry Study Guide 2 Practice Exams and ACS Test Prep Book 3rd Edition Made by Test Prep Books experts for test takers trying to achieve a great score on the ACS General Chemistry exam This comprehensive study guide includes Quick Overview Find out what's inside this guide Test Taking Strategies Learn the best tips to help overcome your exam Introduction Get a thorough breakdown of what the test is and what's on it Chemistry Reference Sheet Atomic Structure Electronic Structure Formula Calculations and the Mole Stoichiometry Solutions and Aqueous Reactions Heat and Enthalpy Structure and Bonding States of Matter Kinetics Equilibrium Acids and Bases Solubility Equilibria Thermodynamics Electrochemistry Nuclear Chemistry Practice Test 1 Practice Test 2 Detailed Answer Explanations Studying can be hard We get it That's why we created this guide with these great features and benefits Comprehensive Review Each section of the test has a comprehensive review created by Test Prep Books that goes into detail to cover all of the content likely to appear on the test ACS General Chemistry Practice Test Questions We want to give you the best practice you can find That's why the Test Prep Books practice questions are as close as you can get to the actual test Answer Explanations Every single problem is followed by an answer explanation We know it's frustrating to miss a question and not understand why The answer explanations will help you learn from your mistakes That way you can avoid missing it again in the future Test Taking Strategies A test taker has to understand the material that is being covered and be familiar with the latest test taking strategies These strategies are necessary to properly use the time provided They also help test takers complete the test without making any errors Test Prep Books has provided the top test taking tips Customer Service We love taking care of our test takers We make sure that you interact with a real human being when you email your comments or concerns Anyone planning to take this exam should take advantage of this Test Prep Books study guide Purchase it today to receive access to ACS General Chemistry review materials ACS General Chemistry practice test questions Test taking strategies Acing the ACS James Coy-Dibley, 2017-09-05 Study guide for first year general chemistry ACS Exam Organic Chemistry, Study Guide/solutions Manual, E-book, Acs Modular Kit & Guide K. Peter C. Vollhardt, Neil E. Schore, American Chemical

Society,2006-04-27 **Nuts and Bolts of Chemical Education Research** Diane M. Bunce,Renée S. Cole,2008 The purpose of this book is to address the key elements of planning chemical education research projects and educational outreach evaluation components of science grants from a pragmatic point of view

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