

Organic Chemistry II Study Guide for Exam I
Chapters 10, 11, and 14

- Classification of Alcohols
 - Alcohols are classified according to how many carbons are attached to the carbon containing the -OH group.

- Methyl, primary, secondary, and tertiary

- Nomenclature of Alcohols

- Naming an alcohol

- Start numbering the carbon chain to reach the -OH group first
 - Include the location (carbon number) of the -OH group



- 2-methylhexan-2-ol

- Naming an alcohol as a substituent

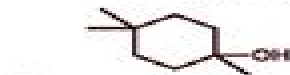
- Do this when alcohol is NOT the highest priority group (carboxylic acid, etc.)
 - Start numbering the carbon chain at the higher priority group
 - Use the prefix hydroxy- and include the location (carbon number) of the -OH group



- 4-hydroxybutanoic acid

- Naming cyclic alcohols

- If the -OH is the highest priority group, do NOT include the location (carbon number)
 - It is implied so it is unnecessary



- 1,4,4-trimethylcyclohexanol

- Naming diols

- When 2 -OH groups are present and is the highest priority group, use the suffix -diol
 - Include the location (carbon number) of BOTH -OH groups



- Propane-1,3-diol

Organic Chemistry Study Guide University Of Arizona

KJ Lindholm-Leary



Organic Chemistry Study Guide University Of Arizona:

Organic Chemistry T. W. Graham Solomons, Craig B. Fryhle, Scott A. Snyder, 2022-01-19 Organic Chemistry 13th Edition continues Solomons Fryle and Snyder s tradition of excellence in teaching and preparing students for success in both the classroom and beyond Central to the authors is their approach in emphasizing organic chemistry s relationship between structure and reactivity To accomplish this the content is organized in a way that combines the most useful features of a functional group approach with one largely based on reaction mechanisms The authors philosophy is to emphasize mechanisms and their common aspects as often as possible and at the same time use the unifying features of functional groups as the basis for most chapters The structural aspects of the authors approach show students what organic chemistry is Mechanistic aspects of their approach show students how it works And wherever an opportunity arises the authors show students what it does in living systems and the physical world around us Organic Chemistry David R. Klein, 2017-08-14 In Organic Chemistry 3rd Edition Dr David Klein builds on the phenomenal success of the first two editions which presented his unique skills based approach to learning organic chemistry Dr Klein s skills based approach includes all of the concepts typically covered in an organic chemistry textbook and places special emphasis on skills development to support these concepts This emphasis on skills development in unique SkillBuilder examples provides extensive opportunities for two semester Organic Chemistry students to develop proficiency in the key skills necessary to succeed in organic chemistry **A Guide to Undergraduate Science Course and Laboratory Improvements** National Science Foundation (U.S.). Directorate for Science Education, 1979 Ebook: Organic Chemistry Janice Smith, 2014-10-16 Serious Science with an Approach Built for Today s Students Smith s Organic Chemistry continues to breathe new life into the organic chemistry world This new fourth edition retains its popular delivery of organic chemistry content in a student friendly format Janice Smith draws on her extensive teaching background to deliver organic chemistry in a way in which students learn with limited use of text paragraphs and through concisely written bulleted lists and highly detailed well labeled teaching illustrations Don t make your text decision without seeing Organic Chemistry 4th edition by Janice Gorzynski Smith *The Latino Student's Guide to College Success* Leonard A. Valverde, 2012-07-06 This book provides Latino students with a step by step roadmap for navigating the college process from overcoming cultural barriers to attending college to selecting the right school to considering advanced degrees The Latino community is the fastest growing minority group in America and quickly becoming a major player in America s workforce Unfortunately Latinos encounter cultural and societal obstacles that can hinder academic achievement This inspirational guide gives Latino students practical skills for advancing in a college environment The Latino Student s Guide to College Success Second Edition Revised and Updated provides a blueprint for collegiate success The first eight chapters guide students through subjects such as selecting a college navigating the application process forming effective study habits accessing student support services and planning for advanced degrees The second

part is comprised of eight inspirational stories by Latino graduates sharing their college experiences Lastly a third section features a listing of colleges with a record of graduating the most Latinos as well as a list of the top ten colleges with the most undergraduate Latino students The revised and updated second edition of this popular book features the latest economic and demographic changes that have emerged since the first edition was published It also includes six new chapters introducing the impact of technological advancements and changes in cultural trends 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 *Current Organic Chemistry*, 1999-09 **Organic Chemistry** Walter William Linstromberg, Henry E. Baumgarten, 1987 **Current Organic Chemistry**, 1999-07 *Guide to Opportunities for Education, Training, and Research in the Sciences* Stanley Field, 1967 Language, Literacy, and Learning in STEM Education Mary Jane Curry, David I. Hanauer, 2014-06-15 This edited book is an introduction to the interdisciplinary field of applied linguistics literacies studies in STEM science technology engineering and mathematics It brings together a host of experts involved in actual research projects on STEM practice and education The book presents a range of projects covering the areas of science engineering and mathematics and provides a conceptualization of the concepts and methodologies that underpin these projects A range of epistemologies approaches and methodologies including discourse conversation analysis ethnographic content analysis and text linguistic analysis is exemplified and explained in relation to specific interdisciplinary studies in STEM This book provides a much needed introduction to the ways in which applied linguists can work in the areas of STEM and the ways in which function in these professions and academic disciplines can benefit from the research and educational knowledge of applied linguists **Florida Ethnobotany** Daniel F. Austin, 2004-11-29 Winner of the 2005 Klinger Book Award Presented by The Society for Economic Botany Florida Ethnobotany provides a cross cultural examination of how the states native plants have been used by its various peoples This compilation includes common names of plants in their historical sequence weaving together what was formerly esoteri American Universities and Colleges, 2014-10-08 No detailed description available for American Universities and Colleges *Chemical Kinetics and Catalysis*, **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1972 **Resources in Education**, 1996 **Research in Education**, 1974 *Opening New Frontiers in Space* National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on New Opportunities in Solar System Exploration: An Evaluation of the New Frontiers Announcement of Opportunity, 2008-08-21 The New Frontiers Program was created by NASA in 2002 at the recommendation of the NRC s decadal survey for solar

system research In order to optimize solar system research the NRC recommended a series of principal investigator missions that encourage innovation and accomplish the main scientific objectives presented in the survey Two of the five recommended missions have been selected and as was also recommended in the survey the NRC was asked in 2007 to provide criteria and guiding principles to NASA for determining the list of candidate missions This book presents a review of eight missions the three remaining from the original list of five from the survey plus five missions considered by the survey committee but which were not recommended Included in the review of each mission is a discussion of relevant science and technology developments since the survey and set of recommended science goals **Monthly Catalogue, United States Public Documents** ,1995 **Monthly Catalog of United States Government Publications** United States. Superintendent of Documents,1995 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index

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