

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, us the suffix -diol
 - Include the location (carbon number) of BOTH -OH groups



- Propane-1,3-diol

Organic Study Guide

**T. W. Graham Solomons, Craig B.
Fryhle, Scott A. Snyder**

Organic Study Guide:

Study Guide and Solutions Manual for Essential Organic Chemistry Paula Yurkanis Bruice,2015-03-04 This Study Guide Solution Manual contains learning objectives chapter summaries and outlines as well as examples self tests and concept questions as well as complete step by step solutions to selected problems

A Self-study Guide to the Principles of Organic Chemistry Jiben Roy,2013 A Self Study Guide to the Principles of Organic Chemistry Key Concepts Reaction Mechanisms and Practice Questions for the Beginner will help students new to organic chemistry grasp the key concepts of the subject quickly and easily as well as build a strong foundation for future study Starting with the definition of atom the author explains molecules electronic configuration bonding hydrocarbons polar reaction mechanisms stereochemistry reaction varieties organic spectroscopy aromaticity and aromatic reactions biomolecules organic polymers and a synthetic approach to organic compounds The over one hundred diagrams and charts contained in this volume will help students visualize the structures and bonds as they read the text and make the logic of organic chemistry clear and easily understood Each chapter ends with a list of frequently asked questions and answers followed by additional practice problems Answers are included in the Appendix

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This edition now includes all new artwork expanded in text problems summary quizzes approximately every three chapters more detailed explanations in solutions and chapter outlines **Organic Chemistry, 12e Binder Ready Version Study Guide & Student Solutions Manual** T. W. Graham Solomons,Craig B. Fryhle,Scott A. Snyder,2016-04-11 This is the Student Study Guide Solutions Manual to accompany Organic Chemistry 12th Edition The 12th edition of Organic Chemistry continues Solomons Fryhle Snyder's tradition of excellence in teaching and preparing students for success in the organic classroom and beyond A central theme of the authors approach to organic chemistry is to emphasize the 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

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