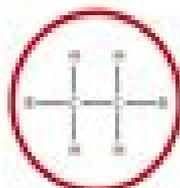


FUNCTIONAL GROUPS IN ORGANIC CHEMISTRY

FUNCTIONAL GROUPS ARE GROUPS OF ATOMS IN ORGANIC MOLECULES THAT ARE RESPONSIBLE FOR THE CHARACTERISTIC CHEMICAL REACTIONS OF THOSE MOLECULES. IN THE GENERAL FORMULAE BELOW, 'R' REPRESENTS A HYDROCARBON GROUP OR HYDROGEN, AND 'X' REPRESENTS ANY HALOGEN ATOM.

● HYDROCARBONS ● SIMPLE OXYGEN HETEROATOMICS ● HALOGEN HETEROATOMICS ● CARBONYL COMPOUNDS ● NITROGEN BASED ● SULFUR BASED ● AROMATIC



ALKANE

Naming: -ane
e.g. ethane



ALKENE

Naming: -ene
e.g. ethene



ALKYNE

Naming: -yne
e.g. ethyne



ALCOHOL

Naming: -ol
e.g. ethanol



ETHER

Naming: -oxy-ane
e.g. methoxyethane



EPOXIDE

Naming: -ene oxide
e.g. ethene oxide



HALOALKANE

Naming: halo-
e.g. chloroethane



ALDEHYDE

Naming: -al
e.g. ethanal



KETONE

Naming: -one
e.g. propanone



CARBOXYLIC ACID

Naming: -oic acid
e.g. ethanoic acid



ACID ANHYDRIDE

Naming: -oic anhydride
e.g. ethanoic anhydride



ESTER

Naming: -yl -oate
e.g. ethyl ethanoate



AMIDE

Naming: -amide
e.g. ethanamide



ACYL HALIDE

Naming: -oyl halide
e.g. ethanoyl chloride



AMINE

Naming: -amine
e.g. ethanamine



NITRILE

Naming: -nitrile
e.g. ethanenitrile



IMINE

Naming: -imine
e.g. ethanimine



ISOCYANATE

Naming: -yl isocyanate
e.g. ethyl isocyanate



AZO COMPOUND

Naming: -azo-
e.g. azoethane



THIOL

Naming: -thiol
e.g. methanethiol



ARENE

Naming: -yl benzene
e.g. ethyl benzene



General Organic Chemistry

Army Medical Library (U.S.)



General Organic Chemistry:

Introduction to General, Organic, and Biochemistry Morris Hein, Scott Pattison, Susan Arena, Leo R. Best, 2013-12-23 The most comprehensive book available on the subject *Introduction to General Organic and Biochemistry* 11th Edition continues its tradition of fostering the development of problem solving skills featuring numerous examples and coverage of current applications Skillfully anticipating areas of difficulty and pacing the material accordingly this readable work provides clear and logical explanations of chemical concepts as well as the right mix of general chemistry organic chemistry and biochemistry An emphasis on real world topics lets readers clearly see how the chemistry will apply to their career

General Organic Chemistry I CHM 237 Lawrence MORGAN, Vikas GARG, 2018-06-27 [General Organic Chemistry I](#) Ian Gould, 2020-01-20 **General Organic Chemistry** Raymond Benedict Seymour, 1971 *General Organic Chemistry II* Ian Gould, 2015-12-29 [General Organic Chemistry II](#) Ian Gould, 2016-12-15 [Principles of general organic chemistry, tr. from the author's Germ. ed. by J.B. Tingle](#) Edvard Immanuel Hjelt, 1890 [Principles of General Organic Chemistry](#) Edvard Hjelt, 1890 **General, Organic, and Biological Chemistry** Kenneth W. Raymond, 2012-12-11 This General Organic and Biochemistry text has been written for students preparing for careers in health related fields such as nursing dental hygiene nutrition medical technology and occupational therapy It is also suited for students majoring in other fields where it is important to have an understanding of the basics of chemistry Students need have no previous background in chemistry but should possess basic math skills Raymond was crafted to take advantage of recent trends in the GOB market It is a shorter lighter book with a new integrated table of contents that develops general organic and biochemistry topics together rather than in isolation In introducing GOB material this text uses an integrated approach in which related general chemistry organic chemistry and biochemistry topics are presented in adjacent chapters This approach helps students see the strong connections that exist between these three branches of chemistry and allows instructors to discuss these interrelationships while the material is still fresh in students minds Having a shorter time interval between when a topic is first presented and when it is reintroduced can help students assimilate the material more readily **Principles of General, Organic, & Biological Chemistry** Janice Smith, 2011 This new one semester General Organic and Biological Chemistry textbook is written with the same student focused direct writing style that has been so successful in the Smith Organic Chemistry and two semester General Organic and Biological Chemistry texts Smith writes with a bulleted approach that delivers need to know information in a succinct style for today s students Armed with an excellent macro to micro illustration program and many applications to biological medical consumer and environmental topics this book is a powerhouse of student learning **Advanced General Organic Chemistry (set) 3e** Sachin Kumar Ghosh, **General Organic Chemistry Chm 238** LAWRENCE. MORGAN, Vikas Garg, 2017-05-15 [Principles of General Organic Chemistry](#) E. Hjelt, 2015-06-25 Excerpt from *Principles of General Organic Chemistry* With regard to the object of this work there is

little to add to Professor Hjelt's remarks it is intended for those students who have already some general elementary knowledge of organic chemistry and who wish to extend and systematise that knowledge In Part I the composition constitution and classification of organic compounds are discussed and explained as clearly and concisely as possible Part II is devoted to illustrating the connection between the constitution of organic compounds and their chief physical properties Part III deals with the chemical behaviour of organic compounds The reactions described in this section are in all cases arranged according to the results dehydration processes for instance being all classed together Although such a division is somewhat novel experience has shown that it materially assists students in obtaining a wide and thorough grasp of the subject About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works *Introduction to General, Organic, and Biological Chemistry* Robert J. Ouellette, 1992

General, Organic and Biological Chemistry, Student Study Guide and Solutions Manual Kenneth W.

Raymond, 2008-01-14 This General Organic and Biochemistry text has been written for students preparing for careers in health related fields such as nursing dental hygiene nutrition medical technology and occupational therapy It is also suited for students majoring in other fields where it is important to have an understanding of the basics of chemistry Students need have no previous background in chemistry but should possess basic math skills Raymond was crafted to take advantage of recent trends in the GOB market It is a shorter lighter book with a new integrated table of contents that develops general organic and biochemistry topics together rather than in isolation In introducing GOB material this text uses an integrated approach in which related general chemistry organic chemistry and biochemistry topics are presented in adjacent chapters This approach helps students see the strong connections that exist between these three branches of chemistry and allows instructors to discuss these interrelationships while the material is still fresh in students minds This integration involves the following sets of chapters Chapter 3 Compounds and Chapter 4 An Introduction to Organic Compounds An introduction to bonding and compounds is followed by a look at the members of a few key organic families Chapters 3 4 and 6 Reactions A study of inorganic and organic compounds is followed after a look at gases liquids and solids in Chapter 5 by an introduction to their reactions Chapter 7 Solutions and Chapter 8 Lipids and Membranes A discussion of solubility is followed by a look at the importance of solubility in biochemistry Some reactions from Chapter 6 are reintroduced Chapter 9 Acids and Bases and Chapter 10 Carboxylic Acids Phenols and Amines Principles of acid base Chemistry from an inorganic perspective are followed by a chapter on the organic and biochemical aspects of this topic Chapter 11 Alcohols Aldehydes and Ketones and

Chapter 12 Carbohydrates An introduction to the chemistry of alcohols aldehydes and ketones is followed by a presentation of related biochemical applications **Advanced General Organic Chemistry** Sachin Kumar Ghosh,2020 The branch of chemistry which focuses on the structure properties and reactions of organic compounds is known as organic chemistry This book unfolds the innovative aspects of this field which will be crucial for the holistic understanding of organic chemistry

Index-catalogue of the Library of the Surgeon General's Office, United States Army (Army Medical Library) Army Medical Library (U.S.),1938 **Index-catalogue of the Library of the Surgeon-General's Office, United States Army** National Library of Medicine (U.S.),1938 *General, Organic, and Biological Chemistry* Michael P. Garoutte,2014-02-24 Classroom activities to support a General Organic and Biological Chemistry text Students can follow a guided inquiry approach as they learn chemistry in the classroom General Organic and Biological Chemistry A Guided Inquiry serves as an accompaniment to a GOB Chemistry text It can suit the one or two semester course This supplemental text supports Process Oriented Guided Inquiry Learning POGIL which is a student focused group learning philosophy of instruction The materials offer ways to promote a student centered science classroom with activities The goal is for students to gain a greater understanding of chemistry through exploration *Fundamentals of General, Organic, and Biological Chemistry* John McMurry,2010 For two semester three quarter courses in General Organic and Biological Chemistry primarily taken by allied health majors Also suitable for one semester courses with a comprehensive approach This best selling text bears the hallmark of all John McMurry s books On style it is concise and avoids the wordiness of most GOB texts On substance it is unusual in its balance of chemical concepts to explain the quantitative aspects of chemistry and provides greater depth of insight into the theoretical chemical principles This makes for a wider spectrum of the different angles from which to view chemistry and thus captures a greater number of students who can successfully learn from the book Demanding yet logical it also sets itself apart by requiring students to master concepts before they can move on to the next chapter

Unveiling the Magic of Words: A Overview of "**General Organic Chemistry**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**General Organic Chemistry**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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