

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: -yl 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



Functional Groups Pearson Chemistry Workbook

G Orfield



Functional Groups Pearson Chemistry Workbook:

Textbook of Chemistry Mr. Prashik M. Walke, Dr. Shailesh K. Bhagat, Dr. Pankaj Meshram Ashvini Meshram & Dr. Umesh B. Kosurkar ,2026-01-14 This textbook has been specially designed for the B Sc 4th Semester Chemistry students of R T M Nagpur University Nagpur as per the NEP 2020 curriculum It covers the core topics of Inorganic Chemistry Paper I and Organic Chemistry Paper II in a clear concise and systematic manner The objective is to provide students with a solid conceptual foundation while developing an appreciation for the structural theoretical and practical aspects of chemistry In the Inorganic Chemistry section emphasis is placed on coordination chemistry isomerism bonding theories and redox behavior along with related applications The Organic Chemistry section deals with reaction mechanisms stereochemistry and functional group transformations helping students to connect theory with synthetic and analytical approaches The subject matter has been presented in simple language supported by illustrative examples well labeled diagrams and step by step derivations wherever necessary Each chapter includes review questions to encourage self assessment and deeper understanding This book aims not only to serve as a textbook for university examinations but also as a reliable companion for students preparing for various competitive and higher level chemistry examinations We sincerely thank teachers colleagues and students whose constant feedback and encouragement have inspired the preparation of this volume We welcome constructive suggestions for the improvement of future editions *Students Study Guide* Fredeen,Pearson,2003-07

Chemistry and Industry ,1954 **Introduction to Organic Laboratory Techniques** ,2006 Books in Print ,1994
Subject Guide to Books in Print ,1991 *Introduction to Chemistry for Biology Students* George I. Sackheim,2005 An Introduction to Chemistry for Biology Students Eighth Edition is a unique workbook designed to teach readers the basic concepts of chemistry that are essential for success in the life sciences Today s biology research places an increasing emphasis on the chemical processes that underlie critical biological functions This workbook helps readers master all the basic facts concepts and terminology of chemistry they need to understand those processes Atomic Structure Chemical Symbols Atoms and Molecules Ionization Liquid Mixtures Diffusion and Osmosis Nerve Cells The Covalent Bond Polar and Nonpolar Covalent Bonds Functional Groups in Organic Compounds Hydrogen Bonds Isomers Carbohydrates Lipids Proteins Nucleotides Enzymes Biologic Oxidation Photosynthesis Oxygen Carbon Dioxide Transport in the Blood For college instructors and students or anyone interested in issues relating to chemistry *Experimental Organic Chemistry* H. Dupont Durst,George W. Gokel,1980 Whitaker's Five-year Cumulative Book List ,1968 *A Basic Booklist and Core Journals for Pharmaceutical Education* Patricia A. Piermatti,Barbara M. Hill,1986 **Fundamentals of General, Organic, and Biological Chemistry: Pearson New International Edition** John E. McMurry,Carl A. Hoeger, Virginia E. Peterson,David S. Ballantine,2013-08-27 Were you looking for the book with access to MasteringChemistry This product is the book alone and does NOT come with access to MasteringChemistry Buy the book and access card package to save money on this resource

Fundamentals of General Organic and Biological Chemistry by McMurry Ballantine Hoeger and Peterson provides background in chemistry and biochemistry with a relatable context to ensure students of all disciplines gain an appreciation of chemistry's significance in everyday life. Known for its clarity and concise presentation, this book balances chemical concepts with examples drawn from students' everyday lives and experiences to explain the quantitative aspects of chemistry and provide deeper insight into theoretical principles. The Seventh Edition focuses on making connections between General Organic and Biological Chemistry through a number of new and updated features, including all new Mastering Reactions boxes, Chemistry in Action boxes, new and revised chapter problems that strengthen the ties between major concepts in each chapter, practical applications, and much more. This package contains Fundamentals of General Organic and Biological Chemistry, Seventh Edition, *Book of Abstracts* (American Chemical Society Meeting, American Chemical Society, 1973), *The British National Bibliography* (Arthur James Wells, 2009), **Functional Groups in Organic Compounds** (Walter S. Trahanovsky, 1971), **Operational Organic Chemistry** (John W. Lehman, 1988), **Comprehensive Chemical Kinetics** (C. H. Bamford, Charles Frank Howlett Tipper, R. G. Compton, 1969), **Technical Books in Print** (1974), **Directory of Research in Chemistry at Primarily Undergraduate Institutions** (1989), a directory of chemistry department information for *Organic Chemistry Laboratory* (Oscar R. Rodig, Charles E. Bell, Allen K. Clark, 1990), *Practicing Biology* (Jean Heitz, Jane B. Reece, 2004). Table of contents continued: How are water and good transported in plants? What do you need to consider in order to grow plants in space or anywhere else for that matter? How can plant reproduction be modified using biotechnology? How do gravity and light affect plant growth responses? How does an organism's structure help it maintain homeostasis? How are form and function related in the digestive system? How is mammalian heart structure related to function? How do we breathe and why do we breathe? How does the immune system keep the body free of pathogens? What is nitrogenous waste and how is it removed from the body? How do hormones regulate cell functions? How does the production of male and female gametes differ in humans? What common events occur in the early development of animals? How do neurons function to transmit information? What would happen if you modified a particular aspect of neuron function? How does sarcomere structure affect muscle function? What would happen if you modified particular aspects of muscle function? What factors determine climate? What determines behavior? What methods can you use to determine population density and distribution? What models can you use to calculate how quickly a population can grow? What do you need to consider when analyzing communities of organisms? What limits do available solar radiation and nutrients place on carrying capacities? What factors can affect the survival of a species or community? The activities of this workbook focus on key ideas, principles, and concepts that are basic to understanding biology. The overall organization follows that of Campbell Reece Biology 7th edition.

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