

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



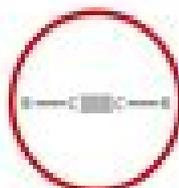
ALKANE

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



Functional Groups Pearson Chemistry Workbook

RJ Shavelson



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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

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Chemistry and Industry ,1954 *Introduction to Organic Laboratory Techniques* ,2006 *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

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in Educational Innovation for Chemistry *Review of Organic Functional Groups* Thomas L. Lemke,2003 Designed to be used as a self paced review this text outlines the functional groups common to organic chemistry reviewing the general topics of nomenclature physical and chemical properties and metabolism The text provides background material for the formal pharmacy courses in medicinal chemistry easing the transition from general organic chemistry courses required of all pre pharmacy students The Fourth Edition will include a workbook on CD ROM as well as an index on general drug metabolism Students who use this text are able to complete difficult tasks such as drawing a chemical structure or official chemical name predicting solubility of chemicals in liquids predicting and showing with chemical structures the metabolism of organic functional groups predicting and showing instabilities with chemical structures **Experimental Organic Chemistry** H. Dupont Durst,George W. Gokel,1980 *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
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