

# Functional Groups in Organic Chemistry

## Hydrocarbons



Alkane



Cycloalkane



Alkene



Alkyne



Aromatic  
(Arene)



\* Allene

Asterisks \* indicate that the group is less common, so you can skip them for Organic 1.

## Oxygen-containing



Alcohol



Ether



Epoxide



Peroxide

## Carbonyl (C=O) - containing



Aldehyde



Ketone



Carboxylic Acid



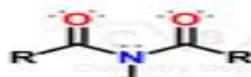
Ester



Acid (acyl)  
chloride



Anhydride



Imide



Cyanate

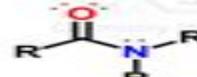


Isocyanate

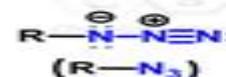
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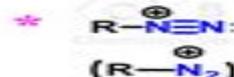
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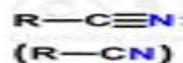
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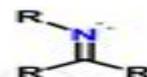
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Diazonium Salts



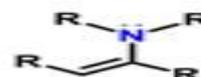
(R-CN)  
Nitrile



Nitro



Imine



Enamine

## Sulfur-containing



Thiol



Thioether



\* Thioester



\* Thiocyanate



\* Isothiocyanates

# Functional Groups Chemistry Answers

**Susan McMurry**



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*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

**Study Guide, Answer Book to Accompany Organic Chemistry** Alan S. Wingrove, Robert L. Caret, 1981

**Answer Book : Chemistry, a Life Science Approach** Stuart J. Baum, C. W. J. Scaife, 1975

**Basic Concepts in Medicinal Chemistry** Marc Harrold, Robin Zavod, 2013-01-18 Medicinal chemistry is a complex topic Written in an easy to follow and conversational style Basic Concepts in Medicinal Chemistry focuses on the fundamental concepts that govern the discipline of medicinal chemistry as well as how and why these concepts are essential to therapeutic decisions The book emphasizes functional group analysis and the basics of drug structure evaluation In a systematic fashion learn how to identify and evaluate the functional groups that comprise the structure of a drug molecule and their influences on solubility absorption acid base character binding interactions and stereochemical orientation Relevant Phase I and Phase II metabolic transformations are also discussed for each functional group Key features include Discussions on the roles and characteristics of organic functional groups including the identification of acidic and basic functional groups How to solve problems involving pH pKa and ionization salts and solubility drug binding interactions stereochemistry and drug metabolism Numerous examples and expanded discussions for complex concepts Therapeutic examples that link the importance of medicinal chemistry to pharmacy and healthcare practice An overview of structure activity relationships SARs and concepts that govern drug design Review questions and practice problems at the end of each chapter that allow readers to test their understanding with the answers provided in an appendix Whether you are just starting your education toward a career in a healthcare field or need to brush up on your organic chemistry concepts this book is here to help you navigate medicinal chemistry About the Authors Marc W Harrold BS Pharm PhD is Professor of Medicinal Chemistry at the Mylan School of

Pharmacy Duquesne University Pittsburgh PA Professor Harrold is the 2011 winner of the Omicron Delta Kappa Teacher of the Year award at Duquesne University He is also the two time winner of the TOPS Teacher of the Pharmacy School award at the Mylan School of Pharmacy Robin M Zavod PhD is Associate Professor for Pharmaceutical Sciences at the Chicago College of Pharmacy Midwestern University Downers Grove IL where she was awarded the 2012 Outstanding Faculty of the Year award Professor Zavod also serves on the adjunct faculty for Elmhurst College and the Illinois Institute of Technology She currently serves as Editor in Chief of the journal Currents in Pharmacy Teaching and Learning

**Model Answers in Organic Chemistry** A. J. Showler, Thomas Anderson Brown, 1965 *Questions Set at the Examinations*, 1913

**Questions set at the examinations** College Entrance Examination Board, 1916 **Chemunity News**, 1993 Newsletter for chemistry educators at the elementary high school and college levels 5 Steps to a 5 AP Chemistry, 2010-2011 Edition

John Moore, Richard H. Langley, 2010-01-01 A Perfect Plan for the Perfect Score We want you to succeed on your AP exam That's why we've created this 5 step plan to help you study more effectively use your preparation time wisely and get your best score This easy to follow guide offers you a complete review of your AP course strategies to give you the edge on test day and plenty of practice with AP style test questions You'll sharpen your subject knowledge strengthen your thinking skills and build your test taking confidence with Full length practice exams modeled on the real test All the terms and concepts you need to know to get your best score Your choice of three customized study schedules so you can pick the one that meets your needs The 5 Step Plan helps you get the most out of your study time Step 1 Set Up Your Study Program Step 2 Determine Your Readiness Step 3 Develop the Strategies Step 4 Review the Knowledge Step 5 Build Your Confidence Topics include Reactions and Periodicity Stoichiometry Gases Thermodynamics Spectroscopy Light and Electrons Bonding Solids Liquids and Intermolecular Forces Solutions and Colligative Properties Kinetics Equilibrium Electrochemistry Nuclear Chemistry and Organic Chemistry Also includes AP Chemistry practice exams AP Advanced Placement Program and College Board are registered trademarks of the College Entrance Examination Board which was not involved in the production of and does not endorse this product **The Southern California Practitioner**, 1920 Metal Ion Chemical Ionization - the Gas Phase Chemistry of Cobalt Containing Ions Michael Lombarski, 1984 **EIT Review Manual** Michael R. Lindeburg, 1998 The best selling review book for the general Fundamentals of Engineering FE EIT exam New to this edition are coverage of new subjects within selected topic areas following the official exam hand out and more practice problems Every exam topic is reviewed and there are more than 1100 problems and a realistic 8 hour practice exam Solutions to all problems and the practice exam are included The EIT Review Manual features a money back guarantee from the publisher *Study Guide and Solutions Manual for Organic Chemistry* Susan McMurry, 1996 This revision of the best selling organic chemistry textbook today has been fully updated and revised to offer more applications a completely new chapter and dozens of new problems and examples McMurry's text is currently in use at hundreds of colleges and universities throughout the United States and

Canada and is an international bestseller from the United Kingdom to the Pacific Rim In this edition McMurry continues to do what he does best focus on the important material of the course and explain it in a concise clear way

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