

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



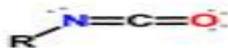
Anhydride



Imide



Cyanate

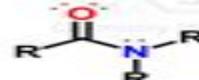


Isocyanate

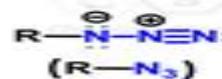
Nitrogen-containing



Amine



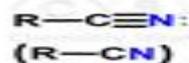
Amide



Azide



Diazonium Salts



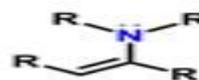
Nitrile



Nitro



Imine



Enamine

Sulfur-containing



Thiol



Thioether



* Thioester



* Thiocyanate



* Isothiocyanates

Chemistry Test Functional Groups Chapter 23

Wilhelm Paul Neumann



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Chemistry Workbook For Dummies Peter J. Mikulecky, Katherine Brutlag, Michelle Rose Gilman, Brian Peterson, 2008-08-06 From liquids and solids to acids and bases work chemistry equations and use formulas with ease Got a grasp on the chemistry terms and concepts you need to know but get lost halfway through a problem or worse yet not know where to begin Have no fear this hands on guide helps you solve many types of chemistry problems in a focused step by step manner With problem solving shortcuts and lots of practice exercises you ll build your chemistry skills and improve your performance both in and out of the science lab You ll see how to work with numbers atoms and elements make and remake compounds understand changes in terms of energy make sense of organic chemistry and more 100s of Problems Know where to begin and how to solve the most common chemistry problems Step by step answer sets clearly identify where you went wrong or right with a problem Understand the key exceptions to chemistry rules Use chemistry in practical applications with confidence

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Prentice Hall Chemistry Antony C. Wilbraham, 2008 **An Introduction to Drug Synthesis** Graham L. Patrick, 2015 Introduction to Drug Synthesis explores the central role played by organic synthesis in the process of drug design and development from the generation of novel drug structures to the improved efficiency of large scale synthesis

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Organic Chemistry Marye Anne Fox, James K. Whitesell, 2004 Accompanying CD ROM has been enhanced with updated animated illustrations to accompany the presentations and Chem3D files for helpful structure visualization Page 4 of cover

The Chemistry of Sulphur-Containing Functional Groups, Supplement S Saul Patai, Zvi Rappoport, 1993-11-16 Leading experts contribute articles dealing with structural theoretical analytical and chemical aspects of the many functional groups containing sulphur

The Chemistry of Double-bonded Functional Groups Saul Patai, 1989 *College Chemistry* Peter C. Scott, 1980

Whitaker's Books in Print, 1998 **General Chemistry** James E. Brady, 1986 **Experimental Methods in Organic Chemistry** James Alexander Moore, David L. Dalrymple, Oscar R. Rodig, 1982 **CHEM 130, Theory and Practice of Identification, CHEM 132, Qualitative Organic Analysis** Christopher Robert Moylan, 2003 *Students Study Guide* Fredeen, Pearson, 2003-07 Study Guide [to Accompany] General Chemistry James E. Brady, 1982 **Im/Tb Chemistry F/Today** Slabaugh, Seager, 2004 *Lecture Notes on Clinical Chemistry* Lionel Gordon Whitby, Iain Walter Percy-Robb, Alistair Fairley Smith, 1975 The Johns Hopkins University Studies in Education, 1936

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