

IR Absorptions of Common Functional Groups

<i>Functional Group</i>	<i>Absorption Location (cm⁻¹)</i>	<i>Absorption Intensity</i>
Alkane (C–H)	2,850–2,975	Medium to strong
Alcohol (O–H)	3,400–3,700	Strong, broad
Alkene (C=C)	1,640–1,680	Weak to medium
(C=C–H)	3,020–3,100	Medium
Alkyne (C≡C)	2,100–2,250	Medium
(C≡C–H)	3,300	Strong
Nitrile (C≡N)	2,200–2,250	Medium
Aromatics	1,650–2,000	Weak
Amines (N–H)	3,300–3,350	Medium
Carbonyls (C=O)		Strong
Aldehyde (CHO)	1,720–1,740	
Ketone (RCOR)	1,715	
Ester (RCOOR)	1,735–1,750	
Acid (RCOOH)	1,700–1,725	

Characteristic Functional Group Nmr Absorptions

T. W. Graham Solomons



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Organic Chemistry G. Marc Loudon, 2009 Introduces organic chemistry through a mechanistic approach within a functional group framework Contains 1 668 exercises many of which are taken directly from the scientific literature that encourage readers to analyze and synthesize chemical concepts Includes modern topics such as alkene metathesis Suzuki and Stille cross coupling reactions and examples drawn from contemporary medical practice Provided by the publisher

CRC Handbook of Chemistry and Physics, 94th Edition William M. Haynes, 2016-04-19 Celebrating the 100th anniversary of the CRC Handbook of Chemistry and Physics this 94th edition is an update of a classic reference mirroring the growth and direction of science for a century The Handbook continues to be the most accessed and respected scientific reference in the science technical and medical communities An authoritative resource consisting of tables of data its usefulness spans every discipline Originally a 116 page pocket sized book known as the Rubber Handbook the CRC Handbook of Chemistry and Physics comprises 2 600 pages of critically evaluated data An essential resource for scientists around the world the Handbook is now available in print eBook and online formats New tables Section 7 Biochemistry Properties of Fatty Acid Methyl and Ethyl Esters Related to Biofuels Section 8 Analytical Chemistry Gas Chromatographic Retention Indices Detectors for Liquid Chromatography Organic Analytical Reagents for the Determination of Inorganic Ions Section 12 Properties of Solids Properties of Selected Materials at Cryogenic Temperatures Significantly updated and expanded tables Section 3 Physical Constants of Organic Compounds Expansion of Diamagnetic Susceptibility of Selected Organic Compounds Section 5 Thermochemistry Electrochemistry and Solution Chemistry Update of Electrochemical Series Section 6 Fluid Properties Expansion of Thermophysical Properties of Selected Fluids at Saturation Major expansion and update of Viscosity of Liquid Metals Section 7 Biochemistry Update of Properties of Fatty Acids and Their Methyl Esters Section 8 Analytical Chemistry Major expansion of Abbreviations and Symbols Used in Analytical Chemistry Section 9 Molecular Structure and Spectroscopy Update of Bond Dissociation Energies Section 11 Nuclear and Particle Physics Update of Summary Tables of Particle Properties Section 14 Geophysics Astronomy and Acoustics Update of Atmospheric Concentration of Carbon Dioxide 1958 2012 Update of Global Temperature Trend 1880 2012 Major update of Speed of Sound in Various Media Section 15 Practical Laboratory Data Update of Laboratory Solvents and Other Liquid Reagents Major update of Density of Solvents as a Function of Temperature Major update of Dependence of Boiling Point on Pressure Section 16 Health and Safety Information Major update of Threshold Limits for Airborne Contaminants Appendix A Major update of Mathematical Tables Appendix B Update of Sources of Physical and Chemical Data *CRC Handbook of Chemistry and Physics, 96th Edition* William M. Haynes, 2015-06-09 Proudly serving the scientific community for over a century this 96th edition of the CRC Handbook of Chemistry and Physics is an update of a classic reference mirroring the growth and direction of science This venerable work continues to be the most accessed and respected scientific reference in the world An

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Spectrometric Identification of Organic Compounds Robert M. Silverstein, Francis X. Webster, David J. Kiemle, David L. Bryce, 2014-09-29 First published over 40 years ago this was the first text on the identification of organic compounds using spectroscopy This text presents a unified approach to the structure determination of organic compounds based largely on mass spectrometry infrared IR spectroscopy as well as multinuclear and multidimensional nuclear magnetic resonance NMR spectroscopy The key strength of this text is the extensive set of practice and real data problems in Chapters 7 and 8 Even professional chemists use these spectra as reference data *Spectrometric Identification of Organic Compounds* is written by and for organic chemists and emphasizes the synergistic effect resulting from the interplay of spectra This text is characterized by its problem solving approach with numerous practice problems and extensive reference charts and tables

Guide to Spectroscopic Identification of Organic Compounds Karen Feinstein, 2018-02-06 *Guide to Spectroscopic Identification of Organic Compounds* is a practical how to book with a general problem solving algorithm for determining the structure of a molecule from complementary spectra or spectral data obtained from MS IR NMR or UV spectrophotometers Representative compounds are analyzed and

examples are solved Solutions are eclectic ranging from simple and straightforward to complex A picture of the relationship of structure to physical properties as well as to spectral features is provided Compounds and their derivatives structural isomers straight chain molecules and aromatics illustrate predominant features exhibited by different functional groups Practice problems are also included Guide to Spectroscopic Identification of Organic Compounds is a helpful and convenient tool for the analyst in interpreting organic spectra It may serve as a companion to any organic textbook or as a spectroscopy reference its size allows practitioners to carry it along when other tools might be cumbersome or expensive Physical Properties of Polymers Handbook James E. Mark, 2007-03-21 This book offers concise information on the properties of polymeric materials particularly those most relevant to physical chemistry and chemical physics Extensive updates and revisions to each chapter include eleven new chapters on novel polymeric structures reinforcing phases in polymers and experiments on single polymer chains The study of complex materials is highly interdisciplinary and new findings are scattered among a large selection of scientific and engineering journals This book brings together data from experts in the different disciplines contributing to the rapidly growing area of polymers and complex materials *CRC Handbook of Chemistry and Physics* William M. Haynes, 2016-04-19 Mirroring the growth and direction of science for a century the Handbook now in its 93rd edition continues to be the most accessed and respected scientific reference in the world An authoritative resource consisting tables of data its usefulness spans every discipline This edition includes 17 new tables in the Analytical Chemistry section a major update of the CODATA Recommended Values of the Fundamental Physical Constants and updates to many other tables The book puts physical formulas and mathematical tables used in labs every day within easy reach The 93rd edition is the first edition to be available as an eBook Phytochemicals in Human Health Venketeshwer Rao, Dennis Mans, Leticia Rao, 2020-02-12 Naturally present bioactive compounds in plants are referred to as Phytochemicals and are being studied extensively for their role in human health Studies have shown that they can have an important role to play in the prevention and management of several human diseases Recognizing the increasing interest in this area this book is being published in response to the need for more current information globally about phytochemicals and their role in human health Chapters of the book are authored by internationally recognized authors who are experts in their respective field of expertise The chapters represent both original research as well as up to date and comprehensive reviews We are sure that the book will be an important reference source meeting the needs of a wide range of interest groups Structural Identification of Organic Compounds with Spectroscopic Techniques Yong-Cheng Ning, 2005-05-06 Clearly structured easy to read and optimal to understand this extensive compendium fills the gap between textbooks devoted to either spectra interpretation or basic physical principles The original Chinese editions have already sold over 18 500 copies and the material is taken from the latest literature from around the world plus technical information provided by the manufacturers of spectroscopic instruments Alongside basic methods Professor Ning presents up to date developments in

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18 19 2014 2014 Guangzhou China **Organic Chemistry** K. Peter C. Vollhardt,1994 **The Synthesis, Structure, and Reactivity of 9-bicyclo[4.2.1]nona-2,4,7-trienyllithium** James Paul Barren,1985 **Encyclopedia of Artificial Intelligence** Stuart Charles Shapiro,1992 **Revue Roumaine de Chimie** ,1991 **Organic Chemistry** T. W. Graham Solomons,1996 Fundamentals of Organic Chemistry T. W. Graham Solomons,1997 A realistic approach to the study of mechanisms The book addresses real functional group chemistry with an emphasis on the biological environmental and medical applications of organic chemistry **Russian Journal of Applied Chemistry** ,1996

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