

Characteristic IR Absorptions of Some Functional Groups

Functional Group	Absorption (cm ⁻¹)	Intensity	Functional Group	Absorption (cm ⁻¹)	Intensity
Alkane			Alkene		
C-H	2850-2960	Medium	=C-H	3020-3100	Medium
			C=C	1640-1680	Medium
Alkyne			Alkyl halide		
≡C-H	3300	Strong	C-Cl	600-800	Strong
C≡C	2100-2260	Medium	C-Br	500-600	Strong
Alcohol			Amine		
O-H	3400-3650	Strong, broad	N-H	3300-3500	Medium
C-O	1050-1150	Strong	C-N	1030-1230	Medium
Arene			Carboxylic acid		
C-H	3030	Weak	O-H	2500-3100	Strong, broad
C=C	1660-2000 1450-1600	Weak Medium			
Carbonyl compound			Nitrile		
C=O	1670-1780	Strong	C≡N	2210-2260	Medium
Nitro					
NO ₂	1540	Strong			

In the box provided, write the IR frequency or range of frequencies that would *best* distinguish between the two compounds shown. Specify which compound (A or B) will display a band at this frequency in its IR spectrum.

(Choose the **most prominent** frequency. Do not include units in your answer. Use only the frequencies listed in the table given above. Write the letter of the compound, followed by the range of frequencies, separated by a comma. Example. "A,1600-1850")



Compound (A or B), IR frequency or range of frequencies: cm⁻¹

Characteristic Functional Group Nmr Absorptions

Jiyuan Zhang



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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

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 *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 authoritative resource consisting of tables of data and current international recommendations on nomenclature symbols and units its usefulness spans not only the physical sciences but also related areas of biology geology and environmental science The 96th edition of the Handbook includes 18 new or updated tables along with other updates and expansions A new series highlighting the achievements of some of the major historical figures in chemistry and physics was initiated with the 94th edition This series is continued with

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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

Instrumental Methods of Chemical Analysis Dr. B. K. Sharma, 1981 *TEXT BOOK OF MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES* Dr. K. Manikandan, Dr. J. Kavitha, Dr. K. S. Kokilambigai, Dr. R. Seetharaman, 2025-01-07 Text Book of Modern Pharmaceutical Analytical Techniques is a comprehensive resource tailored for students researchers and professionals in the pharmaceutical and analytical fields It systematically covers a wide range of analytical methods emphasizing their principles instrumentation and practical applications

1 UV Visible Spectroscopy Explains the theory laws solvent effects and diverse applications 2 IR Spectroscopy Delves into vibrational modes sample handling and modern FT IR techniques 3 Spectrofluorimetry Highlights fluorescence principles factors and instrumental setups 4 Flame Emission and Atomic Absorption Spectroscopy Discusses principles interferences and applications 5 NMR Spectroscopy Covers chemical shifts

spin spin coupling relaxation processes and ^{13}C NMR 6 Mass Spectrometry Provides insights into ionization techniques mass fragmentation and isotopic peaks 7 Chromatography A detailed overview of chromatographic techniques from paper to HPLC 8 Electrophoresis Includes types like gel and capillary electrophoresis with practical uses 9 X ray Crystallography Explores diffraction methods crystal types and structural determination 10 Immunological Assays Features RIA ELISA and bioluminescence for bioanalytical advancements This book serves as a vital guide for mastering analytical techniques critical for pharmaceutical development quality control and research Each chapter integrates theoretical frameworks with real world applications making it both practical and educational The inclusion of modern advancements ensures its relevance to current scientific demands

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 NMR MS IR and Raman spectroscopy such as pulsed field gradient technique LC NMR and DOSY He stresses the application of spectroscopic methods interpreting them in great detail and depth since most of the selected spectra may be applied to practical work as well as summarizing the rules for their interpretation He also incorporates his original ideas including a comparison of the common points in different spectroscopic techniques This monograph features a unique structure a typical example being the discussion of 2D NMR starting from pulse sequence units which construct various pulse sequences for related 2D NMR A complete chapter deals with the determination of configurations and conformations of organic compounds and even biological molecules from the viewpoint of spectroscopic methodologies while one whole section is dedicated to the interpretation of mass spectra produced by soft ionization techniques The principles of mass analyzers especially the ion trap are discussed in great depth together with a concise summary of the MS fragmentation and rearrangement of common compounds allowing readers to easily predict related mass spectrometric reactions All the three kinds of library retrieval of mass spectra are presented in detail together with recent developments in molecular vibration spectroscopy The whole is rounded off with several appendices including a subject index for rapid reference With a foreword by the Nobel prizewinner Richard R Ernst

Laboratory Experiments in Organic Chemistry Jerry R. Mohrig, Douglas C. Neckers, 1973

Organic Chemistry Study Guide Robert J. Ouellette, J. David Rawn, 2014-11-04

Organic Chemistry Study Guide Key Concepts Problems and Solutions features hundreds of problems from the companion book Organic Chemistry and includes solutions for every problem Key concept summaries reinforce critical material from the primary book and enhance mastery of this complex subject Organic chemistry is a constantly evolving field that has great relevance for all scientists not just chemists For chemical engineers understanding the properties of organic molecules and

how reactions occur is critically important to understanding the processes in an industrial plant For biologists and health professionals it is essential because nearly all of biochemistry springs from organic chemistry Additionally all scientists can benefit from improved critical thinking and problem solving skills that are developed from the study of organic chemistry Organic chemistry like any skill is best learned by doing It is difficult to learn by rote memorization and true understanding comes only from concentrated reading and working as many problems as possible In fact problem sets are the best way to ensure that concepts are not only well understood but can also be applied to real world problems in the work place Helps readers learn to categorize analyze and solve organic chemistry problems at all levels of difficulty Hundreds of fully worked practice problems all with solutions Key concept summaries for every chapter reinforces core content from the companion book

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New Polymer Composite Materials II Svetlana Yu. Khashirova,Azamat A. Zhansitov,Amina Vindizheva,2020-10-27 Selected peer reviewed full text papers from XVI International Scientific and Practical Conference New Polymer Composite Materials Selected peer reviewed papers from the XVI International scientific and practical conference New Polymer Composite Materials NPCM 2020 October 7 11 2020 Nalchik Russian Federation

Advanced Materials and Processing Technologies: IFMPT 2014 Seung Bok Choi,Yun Hae Kim,2014-02-27 Selected peer reviewed papers from the 2014 International Forum on Materials Processing Technology IFMPT 2014 January 18 19 2014 2014 Guangzhou China

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Fundamentals of Organic Chemistry, Textbook, Study Guide and Solutions Manual T. W. Graham Solomons,1996-08-15 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

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