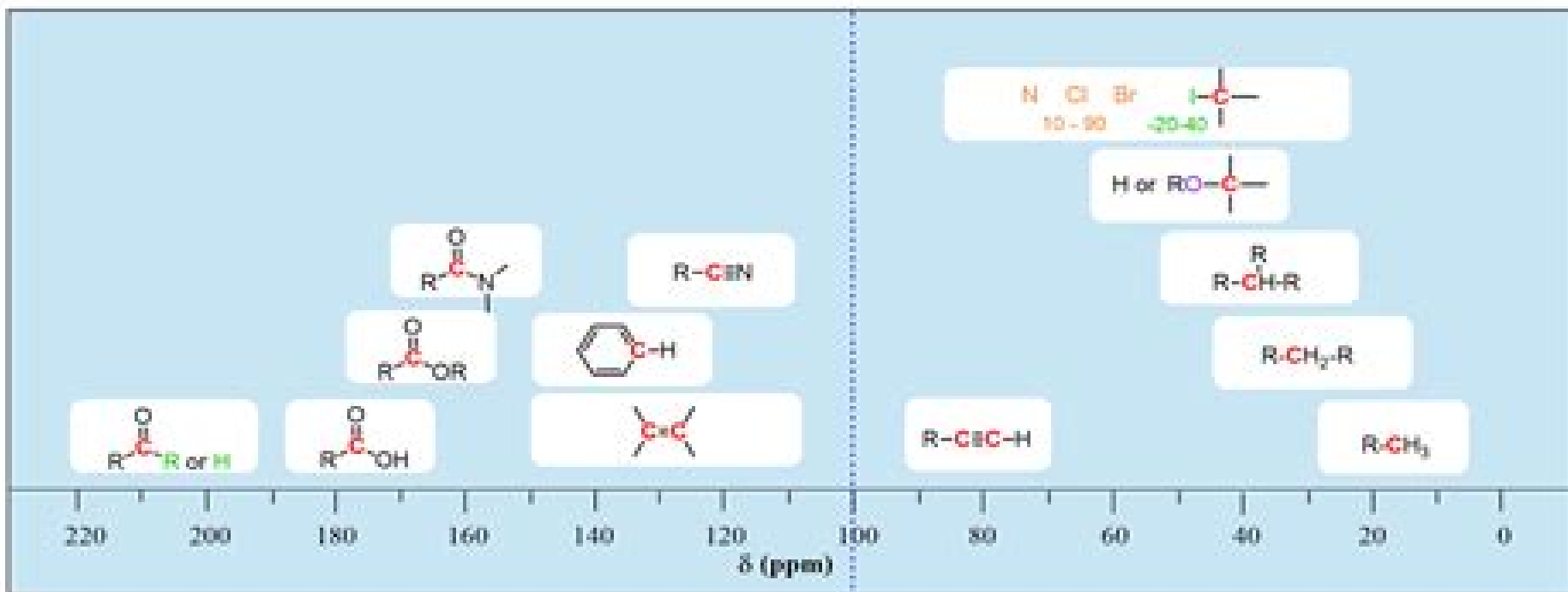


¹³C NMR Chemical Shift Values



Unsaturated carbons (sp^2)

Saturated carbons (sp^3)

Approximate Values of Chemical Shifts for ¹³C NMR

$(CH_3)_4Si$	0	$I-C$	-20 - 40	$C=C$	100 - 150	$R-C(=O)N$	155 - 185
$R-CH_3$	8 - 30	$Br-C$	25 - 65	$C-H$ (aromatic)	110 - 170	$R-C(=O)OH$ $R-C(=O)OR$	165 - 185
$R-CH_2-R$	15 - 55	$Cl-C$	35 - 80	$C\equiv N$	150 - 170	$R-C(=O)H$ $R-C(=O)R$	190 - 220
R_2CH	20 - 60	$O-C$	40 - 80	$C\equiv N$	110 - 140		
R_4C	30 - 50	$N-C$	30 - 65				

C Nmr Spectroscopy

Sasha Hu

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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13C NMR Spectroscopy Eberhard Breitmaier, Gerhard Bauer, 1984 Carbon-13 NMR Spectroscopy Eberhard Breitmaier, Wolfgang Voelter, 1987 E Breitmaier W Voelter Carbon 13 NMR Spectroscopy High Resolution Methods and Applications in Organic Chemistry and Biochemistry Third completely revised edition New techniques and increased use of computers have led to rapid development in ^{13}C NMR spectroscopy with enhanced instrumental sensitivity and improved quality of the spectra This necessitated a complete revision when the third edition of this successful monograph was prepared The new methods described include those for multiplicity analysis and two dimensional homo or hetero nuclear shift correlations As in the second edition the authors survey the large number of ^{13}C NMR applications to organic molecules and natural products in a representative and systematic rather than an exhaustive way New sections about coupling constants organophosphorus and organometallic compounds as well as synthetic polymers have been added The scope remains limited to high resolution methods and molecular systems **Carbon-13 Nuclear Magnetic Resonance Spectroscopy** George C. Levy, Robert L. Lichter, Gordon L. Nelson, 1980-08-21 The expanded updated edition covering basic theoretical and experimental concepts and an overall view of ^{13}C spectral characteristics ^{13}C methods results and applications for aliphatic and aromatic compounds functional groups organic intermediates and organometallic compounds ^{13}C nmr of synthetic high molecular weight polymers relaxation processes applications to natural products and biopolymers and special methods and applications Contains over 1 000 references extensive tables illustrations and problems with answers Interpretation of Carbon-13 NMR Spectra F. W. Wehrli, A. P. Marchand, S. Wehrli, 1988-06-23 This is the second edition of a very successful book which provides the conceptual and experimental basis for the interpretation of ^{13}C NMR spectra Carbon-13 NMR Spectroscopy J Stothers, 1972-01-28 Carbon 13 NMR Spectroscopy focuses on the potential of ^{13}C techniques and the practical difficulties associated with the detection of ^{13}C NMR absorption This monograph includes a descriptive presentation of ^{13}C shielding results that has been adopted with emphasis on the structural and stereochemical aspects Organized into four parts encompassing 11 chapters this book starts with an overview of the characteristics of the NMR signals derived from compounds containing ^{13}C nuclei in natural abundance that are inherently much weaker than those exhibited by protons This monograph then compares the primary characteristics of ^{13}C NMR with the more familiar proton methods Other chapters consider the ^{13}C spectra of pyridine pyridazine pyrimidine pyrazine s triazine and s tetrazine The final chapter deals with the effects of solute solvent interactions on the shieldings of other nuclei This monograph is intended for organic chemists graduate students and researchers in various branches of chemistry with an interest in ^{13}C NMR methods as another approach to chemical problems **Basic ^1H - and ^{13}C -NMR Spectroscopy** Metin Balci, 2005-01-19 Nuclear Magnetic Resonance NMR spectroscopy is a powerful and theoretically complex analytical tool Basic ^1H and ^{13}C NMR Spectroscopy provides an introduction to the principles and applications of NMR spectroscopy Whilst

looking at the problems students encounter when using NMR spectroscopy the author avoids the complicated mathematics that are applied within the field Providing a rational description of the NMR phenomenon this book is easy to read and is suitable for the undergraduate and graduate student in chemistry Describes the fundamental principles of the pulse NMR experiment and 2D NMR spectra Easy to read and written with the undergraduate and graduate chemistry student in mind Provides a rational description of NMR spectroscopy without complicated mathematics Proton and Carbon-13 NMR Spectroscopy Raymond John Abraham, P. Loftus, 1978 Carbon-13 NMR Chemical Shifts in Structural and Stereochemical Analysis Kalevi Pihlaja, Erich Kleinpeter, 1994 A review of recent research on strategies and applications of the C 13 chemical shift a method for determining configuration of organic compounds Introduces C 13 NMR spectroscopy and describes conditions for collecting the FID for data handling and for obtaining a well resolved C 13 NMR spectrum as well as various substituent effect correlations their derivations and the origin of the effects Also discusses the use of multidimensional NMR methods For organic physical and natural products chemists Includes bandw diagrams Annotation copyright by Book News Inc Portland OR *C NMR Spectroscopy* *13C NMR Spectroscopy*, 1978 **Proton and Carbon NMR Spectra of Polymers** Quang Tho Pham, 1991 Contains 458 NMR spectra with associated analytical notes covering acrylics amides dienes ethers olefins siloxins styrenes and derivatives urethanes vinyls and vinylidenes This work provides details of the chemical structure of the analyzed sample in addition to analytical conditions including nucleus frequency spectrometer and lock **13C NMR Spectroscopy** Eberhard Breitmaier, W. Voelter, 1974 **Annual Reports on NMR Spectroscopy**, 1999-10-04 These indexes are valuable volumes in the serial bringing together what has been published over the past 38 volumes They include a preface by the editor of the series an author index a subject index a cumulative list of chapter titles and listings of contents by volume **Biological Magnetic Resonance** Lawrence Berliner, Pierre-Marie Robitaille, 1999-01-31 This volume constitutes a compilation of the latest experiments and theories on a rapidly evolving and maturing field in MRI MRS which is the use of the stable isotope ^{13}C The ^{13}C is used to probe the chemistry mechanism and function in living systems All the chapters are written by experts in the field who discuss topics such as Tracer Theory and the Suitability of ^{13}C NMR Applications of ^{13}C to Studies of Human Brain Metabolism etc Interpretation of Carbon-13 NMR Spectra F. W. Wehrli, T. Wirthlin, 1976 **Topics in Carbon-13 NMR Spectroscopy** George C. Levy, 1974 Sadtler Standard Carbon-13 NMR Spectra Sadtler Research Laboratories, 1874 **NMR — From Spectra to Structures** Terence N. Mitchell, Burkhard Costisella, 2013-04-17 Nuclear magnetic resonance spectroscopy is one of the most important analytical methods available today This practice oriented textbook aims at teaching the use of NMR spectra in the elucidation of organic structures The emphasis of NMR from Spectra to Structures is on practical rather than on theoretical aspects which are treated only briefly The book is intended as a practical guide to today's standard NMR experiments for students and laboratory personnel A set of thirty five graded problems reinforces the reader's understanding of how

problems of structure elucidation are solved by using NMR Organic Chemistry Thomas N. Sorrell, 2006 This textbook approaches organic chemistry from the ground up It focuses on the reactions of organic molecules showing why they are reactive what the mechanisms of the reactions are and how surroundings may alter the reactivity *Carbon-13 NMR Spectral Problems* Robert B. Bates, William A. Beavers, 2012-12-06 With the advent of Fourier transform spectrometers of great sensitivity it has become practical to obtain carbon 13 nuclear magnetic resonance C 13 NMR ^{13}C NMR CMR spectra routinely on organic molecules and this technique has become one of the highest utility in determining structures of organic unknowns When the usual spectrometric techniques proton magnetic resonance H I NMR ^1H NMR PMR infrared IR mass MS and ultraviolet UV do not readily reveal a compound s structure a C 13 NMR spectrum will often provide sufficient additional information to yield it unequivocally With this in mind the present work was designed to give advanced undergraduates graduate students and practicing chemists a working knowledge of and facility with the use of this valuable technique Some familiarity with other spectrometric techniques is assumed recommended book Silverstein Bassler and Morrill Spectrometric Identification of Organic Compounds but no prior knowledge of C 13 NMR which is treated very lightly if at all in the widely used elementary organic texts is necessary A discussion of C 13 NMR spectroscopy is followed by 125 problems each consisting of a molecular formula two types of C 13 NMR spectra partially and completely proton decoupled with connecting lines to facilitate multiplicity assignments an integrated H I NMR spectrum and the most important IR UV and MS data These problems have been very carefully prepared thoroughly tested by students at the University of Arizona and we believe that very few errors remain *NMR Spectroscopy* American Chemical Society. Division of Analytical Chemistry, American Chemical Society. Division of Organic Chemistry, American Chemical Society. Division of Physical Chemistry, 1982

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