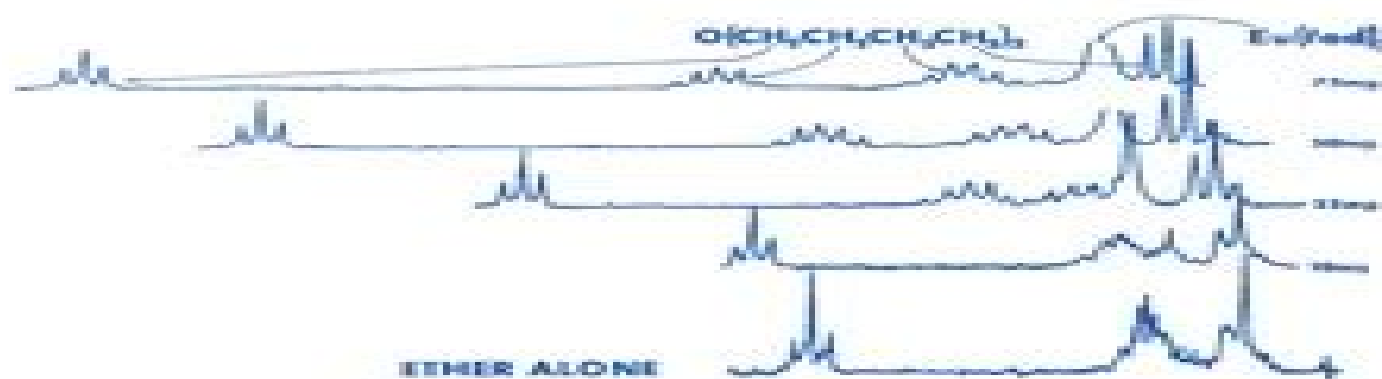


# NUCLEAR MAGNETIC RESONANCE *SHIFT* REAGENTS



Edited by  
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# Nuclear Magnetic Resonance Shift Reagents

**R J Abraham**



## **Nuclear Magnetic Resonance Shift Reagents:**

Nuclear Magnetic Resonance Shift Reagents Robert Sievers, 2012-12-02 Nuclear Magnetic Shift Reagents presents the proceedings of the Symposium on the Chemistry of Nuclear Magnetic Resonance Shift Reagents held in Dallas Texas on April 9 11 1973 This book discusses the fundamental aspects of shift reagent chemistry as well as the physical and chemical properties of shift reagents Comprised of 16 chapters this compilation of papers starts with an overview of the deuterium isotope effect in lanthanide shifts This text then examines the variations in coordination geometries for chemically equivalent molecules of shift reagent substrate complexes in the solid state which illustrate the ease with which changes occur in the coordination sphere of lanthanide complexes Other chapters discuss the dipolar nature of proton resonance shifts in lanthanide shift reagent systems This book considers as well the feasibility of using chiral shift reagents The final chapter deals with the effects of chemical equilibrium and adduct stoichiometry in studies of shift reagent Chemists biochemists and molecular physicists will find this book useful *Lanthanide shift reagents for nuclear magnetic resonance spectroscopy* Anthony F. Cockerill, 1973 Nuclear Magnetic Resonance Studies with Shift Reagents C. Crogan, Chemistry, 1977

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Nuclear Magnetic Resonance Spectroscopy Frank A. Bovey, Peter A. Mirau, H. S. Gutowsky, 1988-11-01 Nuclear Magnetic Resonance Spectroscopy Second Edition focuses on two dimensional nuclear magnetic resonance NMR spectroscopy high resolution NMR of solids water suppression multiple quantum spectroscopy and NMR imaging The selection first takes a look at the fundamental principles and experimental methods Discussions focus on the NMR phenomenon dipolar broadening and spin spin relaxation nuclear electric quadrupole relaxation saturation magnetic shielding and chemical shift magnetic field transitions between the nuclear energy levels and resolution and sensitivity considerations The manuscript then ponders on chemical shift coupling of nuclear spins and nuclear relaxation and chemical rate processes Topics include spin lattice relaxation spin spin relaxation spin decoupling and associated techniques and description and analysis of spin systems The text examines two dimensional NMR spectroscopy macromolecules and NMR of solids including magic angle spinning cross polarization proton dipolar broadening biopolymers and chain motion in macromolecules The selection is a valuable source of data for readers interested in nuclear magnetic resonance spectroscopy

**Nuclear magnetic Resonance in biochemistry** Thomas James, 2012-12-02 Nuclear Magnetic Resonance in Biochemistry Principles and Applications focuses on the principles and applications of nuclear magnetic resonance NMR in biochemistry Topics covered include experimental methods in NMR the mechanisms of NMR relaxation chemical and paramagnetic shifts spin spin splitting the use of NMR in investigations of biopolymers and biomolecular interactions and molecular dynamics in biological and biochemical systems This text is comprised of eight chapters the first of which gives an overview of NMR spectroscopy and its use in studies of biological systems The next two chapters discuss the theoretical basis for NMR applications in biochemistry with emphasis on Bloch equations quantum mechanics correlation function and correlation time double resonance and chemical exchange The reader is then introduced to the basis for chemical shifts and spin spin splitting along with several examples of the use of these NMR parameters in studies of small molecule interactions and structure The experimental apparatus and procedures employed in NMR studies Fourier transform NMR and NMR spectral parameters of small molecules interacting with macromolecules are also considered The book highlights the information obtainable from the spectra of biopolymers and then concludes with a chapter on NMR

investigations of the state of motion of lipids in membranes and model membranes water in macromolecular and cellular systems and sodium ion in biological tissue This book is intended primarily for chemists biochemists biophysicists and molecular biologists as well as graduate students

**Nuclear Magnetic Resonance** A. E. Aliev, 2001 As a spectroscopic method Nuclear Magnetic Resonance NMR has seen spectacular growth over the past two decades both as a technique and in its applications Today the applications of NMR span a wide range of scientific disciplines from physics to biology to medicine Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive of the literature on this topic This Specialist Periodical Report reflects the growing volume of published work involving NMR techniques and applications in particular NMR of natural macromolecules which is covered in two reports NMR of Proteins and Acids and NMR of Carbohydrates Lipids and Membranes For those wanting to become rapidly acquainted with specific areas of NMR this title provides unrivalled scope of coverage Seasoned practitioners of NMR will find this an invaluable source of current methods and applications Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading authorities in the relevant subject areas the series creates a unique service for the active research chemist with regular in depth accounts of progress in particular fields of chemistry Subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis

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available and have been widely vetted for use in NMR spectroscopy The text covers a broad range of reagents that make it possible to determine the enantiomeric purity and assign the absolute configuration of many classes of compounds Comprehensive in scope the text describes the chiral NMR differentiating agents as derivatizing agents solvating agents metal based reagents and liquid crystals and gels and explains the range and types of compounds for which they can be used for analysis New to this edition are the most recent findings in the field as well as the development of advanced NMR measurement techniques that allow for the simplification of complex spectra resulting in more readily identified enantiodifferentiation This important resource Includes the most recent coverage of a large range of compounds that can be analyzed using chiral NMR reagents Explores the use of chiral NMR reagents and explains their relationship to the stereochemistry of the analyzed molecules Offers the essential information needed to help decide which method is the best NMR method to apply to a class or molecules Contains experimental strategies for using the reagents that are likely to improve the quality of the results *Differentiation of Chiral Compounds Using NMR Spectroscopy* is a comprehensive guide designed for investigators planning to use NMR spectroscopy to determine enantiomeric purity or assign the absolute configuration of a compound

**The Interaction of Nuclear Magnetic Resonance Shift Reagents with Inorganic Coordination Complexes** Hon Way Louie,1976      **Nuclear Magnetic Resonance Volume 3** R. K. Harris,1972

Annotation As a spectroscopic method Nuclear Magnetic Resonance NMR has seen spectacular growth over the past two decades both as a technique and in its applications Today the applications of NMR span a wide range of scientific disciplines from physics to biology to medicine Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive of the literature on this topic This Specialist Periodical Report reflects the growing volume of published work involving NMR techniques and applications in particular NMR of natural macromolecules which is covered in two reports NMR of Proteins and Acids and NMR of Carbohydrates Lipids and Membranes For those wanting to become rapidly acquainted with specific areas of NMR this title provides unrivalled scope of coverage Seasoned practitioners of NMR will find this an invaluable source of current methods and applications Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading authorities in the relevant subject areas the series creates a unique service for the active research chemist with regular in depth accounts of progress in particular fields of chemistry Subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis      *Nuclear Magnetic Resonance* R J Abraham,2007-10-31 As a spectroscopic method Nuclear Magnetic Resonance NMR has seen spectacular growth over the past two decades both as a technique and in its applications Today the applications of NMR span a wide range of scientific disciplines from physics to biology to medicine Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive of the literature on this topic This Specialist Periodical Report reflects the growing

volume of published work involving NMR techniques and applications in particular NMR of natural macromolecules which is covered in two reports NMR of Proteins and Acids and NMR of Carbohydrates Lipids and Membranes For those wanting to become rapidly acquainted with specific areas of NMR this title provides unrivalled scope of coverage Seasoned practitioners of NMR will find this an invaluable source of current methods and applications Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading authorities in the relevant subject areas the series creates a unique service for the active research chemist with regular in depth accounts of progress in particular fields of chemistry Subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis

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**Discrimination of Chiral Compounds Using NMR Spectroscopy** Thomas J. Wenzel, 2007-04-13 A comprehensive overview of the use of NMR spectroscopy for chiral discrimination Discrimination of Chiral Compounds Using NMR Spectroscopy concisely covers the broad array of reagents that make it possible to determine the optical purity and

assign the absolute configuration of many classes of compounds It describes chiral NMR derivatizing agents solvating agents metal based reagents and liquid crystals and discusses the range and types of compounds for which they can be used for analysis After an overview of chiral reagents and methodologies this reference Includes comprehensive coverage of the chiral reagents that have been reported Catalogs the range of compounds for which different reagents have been shown to be effective Includes specialty categories such as liquid crystals ionic liquids and the formation of chiral aggregates from achiral building blocks that do not fit into the broader categories Offers experimental strategies for using the reagents that are likely to improve the quality of the results This guide describes the various systems and their overall utility but goes further to show the full scope of the field as a way of guiding investigations into the optimal chiral reagents for use in NMR spectroscopy It s a practical reference for organic chemists in the pharmaceutical industry academia and other areas NMR spectroscopists and researchers involved in the isolation and structure determination of natural products     *Annual Reports on NMR Spectroscopy* Graham A. Webb, 2012-10-05 Nuclear magnetic resonance NMR is an analytical tool used by chemists and physicists to study the structure and dynamics of molecules In recent years no other technique has gained such significance as NMR spectroscopy It is used in all branches of science in which precise structural determination is required and in which the nature of interactions and reactions in solution is being studied *Annual Reports on NMR Spectroscopy* has established itself as a premier means for the specialist and non specialist alike to become familiar with new techniques and applications of NMR spectroscopy *Annual Reports on NMR Spectroscopy* has established itself as a premier means for the specialist and non specialist alike to become familiar with new techniques and applications of NMR spectroscopy     Physical Principles of Chirality in NMR Piotr Garbacz, 2024-09-20 How can we study one of the most elusive molecular properties chirality using nuclear interactions with the magnetic field that are apparently insensitive to handedness This book answers this question from the physicochemical point of view by providing a clear coherent and comprehensive review of methods used in NMR studies of chirality Presented arguments based on fundamental physical and chemical laws and in depth descriptions of new methods utilizing purely physical interactions are mainly addressed to spectroscopists in both academia and industry The introductory chapters provide the reader with the basics of NMR spectroscopy as a tool for the study of chiral compounds and those more interested in the methods of chiral discrimination will benefit from the brief description of their common points and reasons why some of them may or may not work In the following chapters the book shows rapid progress in a newly emerging field of chirality sensitive NMR in particular a search for effects that give direct information about the absolute configuration of a molecule     *NMR Shift Reagents* Thomas J. Wenzel, 1987-07-31



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