

# Phosphorus-31 Nuclear Magnetic Resonance Spectroscopy in Stereochemical Analysis (Methods in Stereochemical Analysis)



This summary of modern applications of <sup>31</sup>P NMR spectroscopy in organic and coordination chemistry brings together 20 of the world's best-known researchers in the field. The book is aimed at introducing the topic to chemists who are considering the use of <sup>31</sup>P NMR spectroscopy and at aiding more experienced chemists in filling out their knowledge as well as supplying them with relevant references. The authors describe the significance of <sup>31</sup>P NMR shifts as well as experimental techniques and the underlying theory. Among the topics discussed are applications of shift measurements in solving structural, conformational and mechanism problems, and the concept of stereospecificity in <sup>31</sup>P couplings. Tabular data on representative inorganic, organic, and biochemical compounds and data on compounds associated with new frontiers in phosphorus chemistry, such as low-coordinate and hypervalent phosphorus systems, are also included.

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ensures the continued visibility and excellence of VCH in this field. Volume 18 of Methods in Stereochemical Analysis. **Observation of  $^{31}\text{P}$ - $^{31}\text{P}$  Indirect Spin-Spin Coupling in Copper-Bis** tures, can make quantitative analysis impossible. On the other hand,  $^{15}\text{N}$  See also: Nuclear Magnetic Resonance Spectroscopy: copy to the study of molecular structure, stereochemistry  $^{31}\text{P}$  NMR method is widely used, with both one-. **Dr. Allen D. Hunter** Phosphorus-31 NMR spectroscopy in stereochemical analysis / edited by John G. Verkade, Louis D. Quin on ResearchGate, the professional network for **Phosphorus-31 NMR spectroscopy in stereochemical analysis** (2) Jameson, C. J. In Phosphorus-31 NMR Spectroscopy in Stereochem- Quin, L. D., Eds. Methods in Stereochemical Analysis 8 VCH Publishers,. **Phosphorus-31 NMR Spectroscopy in Stereochemical Analysis** Phosphorus-31 NMR spectroscopy in stereochemical analysis / edited by John G. xvi, 717 p. : ill. 25 cm. Series. Methods in stereochemical analysis v. 8. **Phosphorus-31 Nmr Spectroscopy In Stereochemical Analysis Essay** Granger, P., Harris, R. K. (1990), Multinuclear Magnetic Resonance in Liquids L. D. (1987), Phosphorus-31 NMR Spectroscopy in Stereochemical Analysis: **Phosphorus-31 NMR Spectroscopy: A Concise Introduction for the - Google Books Result** Analysis of these  $^{31}\text{P}$  NMR spectra suggested chemical shift tensor orientations Verkade, J. G., Quin, L. D., Eds. Methods in Stereochemical Analysis. **Phosphorus-31 solid-state nuclear magnetic resonance study of** W. G. Setzer W. N. In Phosphorus-31 NMR Spectroscopy in Stereo- chemical Analysis .. in Methods in Stereochemical Analysis, Vol 8: Phosphorus-31 NMR. **Phosphorus-31 Solid-State NMR Studies of Homonuclear Spin Pairs** Phosphorus-31 NMR spectroscopy in stereochemical analysis. Responsibility: edited xvi, 717 p. : ill. 25 cm. Series: Methods in stereochemical analysis v. 8 **Anisotropies of the  $^{31}\text{P}$  Chemical Shift and  $^{31}\text{P}$  - ACS Publications** W. G. Bentrude, W. N. Setzer in Phosphorus-31 NMR Spectroscopy in Stereochemical Analysis, J. G. Verkade, L. D. Quin, Eds., p 365, VCH, Weinheim 1987. **Phosphorus-31 NMR spectral properties in compound - Copac - Jisc** Series: Methods in stereochemical analysis [series]. Subjects: Published: (1978) Practical interpretation of P-31 NMR spectra and computer assisted structure **Lignin and Lignans: Advances in Chemistry - Google Books Result** The structure of fluorophosphoranes has been analyzed in detail in [1-13]. Parameters of the NMR spectra of phosphorus fluorides are given in [2, 3, 7, 14-24]. triplet in the  $^{31}\text{p}$  spectrum) and the other containing one fluorine atom (the  $^{31}\text{p}$  .. J.C. Verkade and J. A. Mosbo, Methods in Stereochemical Analysis, Vol. **Phosphorus-31 NMR Spectral Properties in Compound** For an isolated  $^{31}\text{P}$ - $^{14}\text{N}$  spin pair, the  $^{31}\text{P}$  nmr frequencies depend method of Valentine et al/. .. spectroscopy in stereochemical analysis-Organic compounds. **Synthesis and Conformational Study of 1,3,2 - ACS Publications** Phosphorus-31 NMR spectroscopy in stereochemical analysis: Organic compounds and metal complexes. VCH, Deerfield Beach, FL, 1987, DM 258 **The Range of Chemical Shifts, Coupling Constants - Springer Link** L. D., Phosphorus-31 NMR spectroscopy in stereochemical analysis of organic compounds and metal complexes, in Methods of Stereochemical Analysis, **Spectroscopic Methods in Organic Chemistry, 2nd Edition 2007 - Google Books Result** chemistry methods, or in rival concepts such as the molecular orbital theory. We upfield and downfield chemical shifts in the  $^{31}\text{P}$ -NMR spectra of compounds that we .. 2.8  $^{31}\text{P}$ -NMR chemical shift values for phosphorus carbon multiple bonds .. Quin L D [eds],  $^{31}\text{P}$ -NMR Spectroscopy in Stereochemical Analysis, VCH, **Handbook of Organophosphorus Chemistry - Google Books Result** Spectroscopic and Structure Determination Methods Texts and References . Phosphorus-31 NMR Spectroscopy in Stereochemical Analysis, 1987, VCH, NY. **Phosphorus-31 - Twyman Research Management Ltd** Nelson J H, Nuclear Magnetic Resonance Spectroscopy, Prentice Hall, Upper  $^{31}\text{P}$ -NMR Spectroscopy in Stereochemical Analysis, VCH, Weinheim, 1987.