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The Assignment of the Absolute Configuration by NMR Using Chiral Derivatizing Agents: A Practical Guide

By Josi M. Seco, Emilio Quiqoa, Ricardo Riguera

Oxford University Press Inc. Hardback. Book Condition: new. BRAND NEW, The Assignment of the Absolute Configuration by NMR Using Chiral Derivatizing Agents: A Practical Guide, Josi M. Seco, Emilio Quiqoa, Ricardo Riguera, Nuclear magnetic resonance spectroscopy (NMR spectroscopy) is a research technique that uses the magnetic properties of atomic nuclei to determine physical and chemical properties of atoms or the molecules in which they are contained. Proton NMR (^1H NMR) is a technique that applies NMR spectroscopy specifically to the hydrogen-1 nuclei within the molecules of a substance, in order to determine the structure of that substance's molecules. The use of ^1H NMR for the assignment of absolute configuration of organic compounds is a well-established technique. Recent research describes the technique's application to mono-, bi- and trifunctional compounds. In addition, several new auxiliary reagents, mono- and biderivatization procedures, on-resin methodologies and more recently, the use of ^{13}C NMR, have been introduced to the field. In The Assignment of the Absolute Configuration by NMR using Chiral Derivatizing Agents: A Practical Guide, eminent Professor of Organic Chemistry Ricardo Riguera organizes this cutting-edge NMR research. Professor Riguera offers a short and usable guide that introduces the reader to the research with a plethora...



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