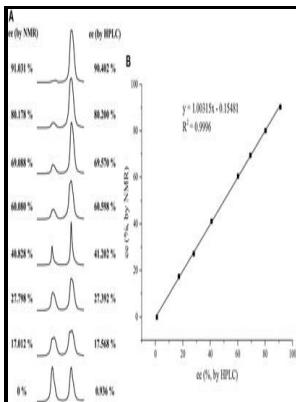


# Lanthanide shift reagents in stereochemical analysis

## VCH - [3] Lanthanide shift reagents

Description: -



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Stereochemistry.  
Nuclear magnetic resonance spectroscopy.  
Lanthanide shift reagents. Lanthanide shift reagents in stereochemical analysis

v. 5

Methods in stereochemical analysis ; Lanthanide shift reagents in stereochemical analysis

Notes: Includes bibliographies and indexes.

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Tags: #19.4: #Enantiomeric #Purity

## NMR Shift Reagent

Google has not performed a legal analysis and makes no representation as to the accuracy of the status listed. Reference standards of acceptable purity should be prepared for each component.

## Modern Methods of Steroid Analysis

Reproduced by permission of G. Oxydation en sulfoxydes de benzo b thiophenes par l'hypochlorite de tertiobutyle.

## Method of spectral analysis using NMR shift reagents

It has previously been demonstrated that certain NMR shift reagents composed of tris chelates of chiral β-diketone ligands with europium III , shift corresponding resonances of many enantiomeric organic substances to different extents. The solubilities of shift reagent and sample in a given solvent generally go down and the widths of lines may increase with lower temperatures, and thus phase separation and spectral resolution difficulties may ensue if too low temperatures are attempted.

## Conformational analysis. 15 —Lanthanide-induced shift investigation of 2- exo -norborneol using tailored models of lanthanide complexation, Magnetic Resonance in Chemistry

Sensitivity of NMR Methods References Chapter 11. The shift reagents in accordance with this invention are thermally stable, oxygen-insensitive glasses or solids which have good solubility in organic solvents.

## NMR Shift reagents

This is demonstrated with an example.

## Modern Methods of Steroid Analysis

The lanthanide complexes that produce these large shift changes are called shift reagents. Methane was evolved during the addition of the first

equivalent of methylolithium

### **Stereochemical analysis of the nerve agents soman, sarin, tabun, and VX by proton NMR**

Because of their higher binding capacities, the cryptands, which have also been studied, in general display better isotopic separation factors.

#### **[3] Lanthanide shift reagents**

Comparison of H and  $^{13}\text{C}$  NMR for Steroid Structural Studies VII. It is anticipated that, if such a situation were to arise, the enantiomeric behaviour of such a compound would be widely known. Chiral Inversion Conversion of one enantiomer into its mirror image.

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