



Chiral Separations and Stereochemical Elucidation: Fundamentals, Methods, and Applications

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DESCRIPTION

An expert resource for chemists using stereochemical analysis methods

In *Chiral Separations and Stereochemical Elucidation: Fundamentals, Methods, and Applications*, a team of distinguished researchers delivers a robust and authoritative discussion of the theoretical fundamentals of chiral separation, the most commonly used chiral selectors, and stereochemical elucidation methods. The book offers expert discussions of a variety of chiral separation methods by gas chromatography (GC), supercritical fluid chromatography (SFC), capillary electrophoresis (CE), and liquid chromatography (LC).

The authors also describe several methods for stereochemical elucidation, including X-ray crystallography, nuclear magnetic resonance spectroscopy, and chiroptical methods. The explored material is ideal for practicing chemists seeking a resource to help them guide method development and optimization or to explain quality control-complements during target compound production.

Readers will also find:

- A thorough introduction to the most important advances and applications in LC, GC, CE, SFC, and preparative chromatography
- Comprehensive explorations of the role of 2D-LC for chiral separation methods development and applications
- Practical discussions of the design, mechanisms, and applications of the most commonly used chiral selectors
- Fulsome treatments of the theoretical backgrounds, advantages, limitations, and applications of stereochemical elucidation methods

Perfect for academic and industrial chemists specially in organic, analytical chemistry and pharmaceutical analysis. *Chiral Separations and Stereochemical Elucidation: Fundamentals, Methods, and Applications* will also benefit biochemists, environmental analysts, forensic and medicinal chemists as well as natural product chemists and those involved with stereochemistry or structural elucidation.

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