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# Chiral Recognition in Separation Methods

Mechanisms and Applications



Springer

# Chiral Recognition In Separation Methods Mechanisms And Applications

**Volker Schurig**

## **Chiral Recognition In Separation Methods Mechanisms And Applications:**

Chiral Recognition in Separation Methods Alain Béthod, 2010-06-16 What drives a scientist to edit a book on a specific scientific subject such as chiral mechanisms in separation methods Until December 2005 the journal Analytical Chemistry of the American Chemical Society Washington DC had an A page section that was dedicated to simple and clear presentations of the most recent techniques or the state of the art in a particular field or topic The A page section was prepared for a broad audience of chemists including industrial professionals students as well as academics looking for information outside their field of expertise 1 Daniel W Armstrong one of the editors of this journal and a twenty year long friend invited me to present my view on chiral recognition mechanisms in a simple and clear way in an A page article In 2006 the A page section was maintained as the first articles at the beginning of each first bi monthly issue but the pagination was no longer page distinguished from the regular research articles published by the journal During the time between the invitation and the submission the A page section was integrated into the rest of the journal and the article appeared as 2006 Anal Chem 78 2093 2099

**Specification of Drug Substances and Products** Christopher M. Riley, Thomas W. Rosanske, George L. Reid, 2020-07-23 Specification of Drug Substances and Products Development and Validation of Analytical Methods Second Edition presents a comprehensive and critical analysis of the requirements and approaches to setting specifications for new pharmaceutical products with an emphasis on phase appropriate development validation of analytical methods and their application in practice This thoroughly revised second edition covers topics not covered or not substantially covered in the first edition including method development and validation in the clinical phase method transfer process analytical technology analytical life cycle management special challenges with generic drugs genotoxic impurities topical products nasal sprays and inhalation products and biotechnology products The book's authors have been carefully selected as former members of the ICH Expert Working Groups charged with developing the ICH guidelines and/or subject matter experts in the industry academia and in government laboratories Presents a critical assessment of the application of ICH guidelines on method validation and specification setting Written by subject matter experts involved in the development and application of the guidelines Provides a comprehensive treatment of the analytical methodologies used in the analysis control and specification of new drug substances and products Covers the latest statistical approaches including analytical quality by design in the development of specifications method validation and shelf life prediction

**Chiral Separations and Stereochemical Elucidation** Quezia Bezerra Cass, Maria Elizabeth Tiritan, João Marcos Batista Junior, Juliana Cristina Barreiro, 2023-04-04 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

### **Essentials in Modern HPLC Separations** Serban C. Moldoveanu,Victor

David,2022-06-24 Essentials in Modern HPLC Separations Second Edition discusses the role of separation in high performance liquid chromatography HPLC This new and updated edition systematically presents basic concepts as well as new developments in HPLC Starting with a description of basic concepts it provides important guidance for the practical utilization of various HPLC procedures such as the selection of the HPLC type proper choice of the chromatographic column selection of mobile phase and selection of the method of detection all of which are in correlation with the physico chemical characteristics of the compounds separated Every chapter has been carefully reviewed with several new sections added to bring the book completely up to date Hence it is a valuable reference for students and professors in chemistry Provides a thoroughly updated resource with an entirely new section on Computer aided Method Development in HPLC and new subsections on miniaturization and automation in HPLC chemometric aspects of HPLC green solvent use in HPLC and more Includes insights into the chromatographic process to find the optimum solution for analyzing complex samples Presents a basis for understanding the utilization of modern HPLC for applications particularly for the analysis of pharmaceutical biological food beverage and environmental samples

### **Recent Advances in Analytical Techniques: Volume 5**

Atta-ur-Rahman,Sibel Ozkan,2022-01-05 Recent Advances in Analytical Techniques is a series of updates in techniques used in chemical analysis Each volume presents a selection of chapters that explain different analytical techniques and their use in applied research Readers will find updated information about developments in analytical methods such as chromatography electrochemistry optical sensor arrays for pharmaceutical and biomedical analysis The fifth volume of the series features five reviews which demonstrate chemical analysis techniques applied in different disciplines Superior Aspects of Liquid Chromatography Based Mass Spectrometers in Chiral Analysis New Trends in Sample Preparation for Pharmaceutical and

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### **Selection of the HPLC Method in Chemical Analysis**

Serban C. Moldoveanu, Victor David, 2016-11-01 Selection of the HPLC Method in Chemical Analysis serves as a practical guide to users of high performance liquid chromatography and provides criteria for method selection development and validation. High performance liquid chromatography HPLC is the most common analytical technique currently practiced in chemistry. However the process of finding the appropriate information for a particular analytical project requires significant effort and pre existent knowledge in the field. Further sorting through the wealth of published data and literature takes both time and effort away from the critical aspects of HPLC method selection. For the first time a systematic approach for sorting through the available information and reviewing critically the up to date progress in HPLC for selecting a specific analysis is available in a single book. Selection of the HPLC Method in Chemical Analysis is an inclusive go to reference for HPLC method selection development and validation. Addresses the various aspects of practice and instrumentation needed to obtain reliable HPLC analysis results. Leads researchers to the best choice of an HPLC method from the overabundance of information existent in the field. Provides criteria for HPLC method selection development and validation. Authored by world renowned HPLC experts who have more than 60 years of combined experience in the field.

### **Recent Trends in Carbohydrate**

**Chemistry** Amélia Pilar Rauter, Bjørn E. Christensen, László Somsák, Paul Kosma, Roberto Adamo, 2020-04-27 Carbohydrate chemistry provides access to carbohydrate based natural products and synthetic molecules as useful biologically active structures relevant to many health care and disease related biological processes. Recent Trends in Carbohydrate Chemistry Synthesis Structure and Function of Carbohydrates covers green and sustainable reactions, organometallic carbohydrate chemistry, synthesis of glycomimetics, multicomponent reactions and chemical transformations leading to molecular diversity based on carbohydrates. These include inhibitors of glycogen phosphorylase which are relevant in controlling type 2 diabetes and sugar sulfates. Polysaccharides which are commonly modified chemically are also examined with contributions covering polysaccharide synthesis and modification of polysaccharides to obtain new structures and properties. Recent Trends in Carbohydrate Chemistry Synthesis Structure and Function of Carbohydrates is ideal for researchers working as synthetic organic chemists and for those interested in biomolecular chemistry, green chemistry, organometallic chemistry and material chemistry in academia as well as in industry. Demonstrates the importance of carbohydrate chemistry as green and sustainable chemistry. Details monosaccharide syntheses and transformations toward biologically active small molecular entities. Provides the most recent findings on polysaccharide synthesis and bioapplications.

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**Enantiomers I** Volker Schurig, 2013-12-16 The series Topics in Current Chemistry presents critical reviews of the present and future trends in modern chemical research. The scope of coverage is all areas of chemical science including the interfaces

with related disciplines such as biology medicine and materials science The goal of each thematic volume is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also offer an outlook on potential future developments in the field

**Chiral Separations** Satinder Ahuja,1997 Asymmetric synthesis resolution the basic approaches to obtaining chiral compounds are discussed in a variety of innovative contexts including enantioselective reactions and additions enzyme catalyzed reactions chromatographic methods with various chiral stationary phases or chiral discriminators and enantioselective membrane transport

**Chiral Separations by Liquid Chromatography** Satinder Ahuja,1991 A definitive reference for researchers working on problems involving chirality Presenting state of the art information this volume covers all the major modes of separation and offers contributions from the leading researchers who developed these techniques Four chapters provide a detailed review of the commonly used columns brush type cyclodextrin polysaccharide carbonate and protein Many of the papers focus on HPLC a technique which is also ideally suited for large scale preparation of optical isomers In addition the volume provides significant discussion on the use of chiral discriminators or selectors

**Chromatographic Enantioseparation** Stig G. Allenmark,1991 **Journal of Planar Chromatography--modern TLC** ,1989

**Chiral Separations by HPLC** Ante M. Krstulović,1989

**High-Performance Capillary Electrophoresis**

Morteza G. Khaledi,1998-04-27 A complete and up to date manual on HPCE theory and practice High Performance Capillary Electrophoresis brings together in one volume essential coverage of the theory techniques and applications of this highly useful and efficient technology Suitable for the novice as well as the experienced user of HPCE this book features expert contributions from highly respected scientists representing a wide range of disciplines Chapters which are grouped into sections to make information easy to find cover Theory and principles of the six HPCE techniques Detection systems including indirect detection Essential operation topics such as sample introduction and stacking coated capillaries and method validation Recently developed methods including two dimensional separations nonaqueous CE and HPCE on microchips All of the basic HPCE applications with an emphasis on bioanalytical uses HPCE in the determination of physico chemical properties of molecules With features and capabilities that match and even surpass those of conventional electrophoresis and HPLC high performance capillary electrophoresis HPCE is the fastest developing technology for the separation and analysis of chemical compounds Keeping pace with the rapid changes in this field and the wealth of journal articles on the subject is a difficult and time consuming challenge for anyone needing a basic and up to date grasp of HPCE

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**Chiral Analysis** Kenneth W. Busch, Marianna A. Busch, 2006-10-30. Chiral Analysis covers an important area of analytical chemistry of relevance to a wide variety of scientific professionals. The target audience is scientific professionals with an undergraduate background in chemistry or a related discipline specifically organic chemists researchers in drug discovery pharmaceutical researchers involved with process analysis or combinatorial libraries and graduate students in chemistry. Chapters have been written with the nonspecialist in mind so as to be self contained. Broad coverage spectroscopic and separation methods covered in a single volume. Up to date and detailed review of the various techniques available and or under development in this field. Contributions from leading experts in the field.

The Encyclopedia of Mass Spectrometry: Hyphenated methods Michael L. Gross, R. M. Caprioli, 2003

*Journal of Chromatography*, 2003    Science in China, 2001    Analytical Methods James D. Morrison, 1983

**Journal** American Chemical Society, 2004

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