



# Preparative Enantioselective Chromatography

Edited by Geoffrey B. Cox



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# Preparative Enantioselective Chromatography

**Wilfried A. König**



## **Preparative Enantioselective Chromatography:**

*Preparative Enantioselective Chromatography* Geoffrey B. Cox, 2008-04-15 The development of chiral liquid chromatography facilitating the straightforward separation of enantiomers was a significant advance in chromatography leading to widespread application in analytical chemistry. Application in preparative chromatography has been less rapid but with the development of single enantiomer pharmaceuticals its use is increasingly common in chemical synthesis at laboratory pilot plant and even full production scale. Brings non experts up to speed quickly and comprehensively facilitating the rapid development of effective separations of enantiomeric mixtures on a range of process scales. Presents case studies drawn from within the pharmaceutical industry to clearly illustrate the utility and value of preparative scale enantioselective chromatography in chemical research development and production. Key reference source and entry to the literature so the reader does not have to engage in expensive and time consuming literature searching.

## **Comprehensive Chirality**

, 2012-12-31 Although many books exist on the subject of chiral chemistry they only briefly cover chiral synthesis and analysis as a minor part of a larger work to date there are none that pull together the background information and latest advances in one comprehensive reference work. *Comprehensive Chirality* provides a complete overview of the field and includes chiral research relevant to synthesis, analytic chemistry, catalysis and pharmaceuticals. The individual chapters in each of the 9 volumes provide an in depth review and collection of references on definition, technology, applications and a guide links to the related literature. Whether in an Academic or Corporate setting these chapters will form an invaluable resource for advanced students, researchers new to an area and those who need further background or answers to a particular problem, particularly in the development of drugs. Chirality research today is a central theme in chemistry and biology and is growing in importance across a number of disciplinary boundaries. These studies do not always share a unique identifying factor or subject themselves to clear and concise definitions. This work unites the different areas of research and allows anyone working or researching in chiral chemistry to navigate through the most essential concepts with ease, saving them time and vastly improving their understanding. The field of chirality counts several journals that are directly and indirectly concerned with the field. There is no reference work that encompasses the entire field and unites the different areas of research through deep foundational reviews. *Comprehensive Chirality* fills this vacuum and can be considered the definitive work. It will help users apply context to the diverse journal literature, offering and aid them in identifying areas for further research and or for solving problems. Chief Editors Hisashi Yamamoto, University of Chicago and Erick Carreira, ETH Zurich have assembled an impressive world class team of Volume Editors and Contributing Authors. Each chapter has been painstakingly reviewed and checked for consistent high quality. The result is an authoritative overview which ties the literature together and provides the user with a reliable background information and citation resource.

## **Drug Stereochemistry** Krzysztof Jozwiak, W. J.

Lough, Irving W. Wainer, 2012-04-23 *Drug Stereochemistry: Analytical Methods and Pharmacology* Third Edition covers all

aspects of chiral drugs from academic governmental industrial and clinical perspectives reflecting the many advances in techniques and methodology Topics include The use of enzymes in the synthesis and resolution of enantiometrically pure compounds in drug disc Supercritical Fluid Chromatography Gérard Rossé,2018-12-17 Supercritical Fluid Chromatography SFC provides a timely overview of SFC application areas which were unimaginable just a decade ago This two volume series opens with an overview of the history and expectant future of SFC and continues with recent applications in the pharmaceutical industry and other fascinating areas of science SFC has found its place in the pharmaceutical industry with an increasing body of applications for chiral and achiral molecules in both the research and development phases of the drug discovery process As illustrated in this two volume series the current interest in SFC extends well beyond the pharmaceutical industry Chapters encompassing applications for polar and non polar mixtures of importance are covering widely disparate areas in substance abuse natural products including cannabinoids bioactive lipids flavor and fragrance With its broad balance and coverage this two volume book constitutes a unique educational platform to students and scientists for many years to come The major objective of this book editions is to inspire and stimulate readers to continue exploring the possibilities of exploiting supercritical fluids as a particular media for analysis purifications and synthesis

**Chromatography** Robert L. Wixom, Charles W. Gehrke, 2011-01-31 Leading researchers discuss the past and present of chromatography More than one hundred years after Mikhail Tswett pioneered adsorption chromatography his separation technique has developed into an important branch of scientific study Providing a full portrait of the discipline Chromatography A Science of Discovery bridges the gap between early twentieth century chromatography and the cutting edge of today s research Featuring contributions from more than fifty award winning chromatographers Chromatography offers a multifaceted look at the development and maturation of this field into its current state as well as its importance across various scientific endeavors The coverage includes Consideration of chromatography as a unified science rather than just a separation method Key breakthroughs revolutions and paradigm shifts in chromatography Profiles of Nobel laureates who used chromatography in their research and the role it played Recent advances in column technology Chromatography s contributions to the agricultural space biological medical sciences pharmaceutical science and environmental natural products and chemical analysis Future trends in chromatography With numerous references and an engaging series of voices Chromatography A Science of Discovery offers a diverse look at an essential area of science It is a unique and invaluable resource for researchers students and other interested readers who seek a broader understanding of this field

**Differentiation of 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 Separation Techniques Ganapathy Subramanian,2008-01-08 Thoroughly revised with either entirely new or completely updated contents this is a practical manual for the small and large scale preparation of enantiomerically pure products The result is a vital resource for meeting the highest purity standards in the manufacture of chiral pharmaceuticals food additives and related compounds All the approaches covered here are highly relevant to modern manufacturing and quality control schemes in the pharmaceutical and biotech industries addressing the increasingly important issue of drug safety in view of tougher regulatory standards worldwide

*Chiral Separation Methods for Pharmaceutical and Biotechnological Products* Satinder Ahuja,2011-03-31 Discusses chiral separations and offers guidance for selecting the optimum method for desired results Chiral separations represent the most intriguing and by some measures most difficult separations of chemical compounds This book provides researchers and students an understanding of chiral separations and offers a convenient route to selecting the best separation method saving considerable time and cost in product development Considering chiral separations in the biotechnological and pharmaceutical industries as well as for food applications Dr Ahuja provides insights into a broad range of topics Opening with a broad overview of chiral separations regulatory considerations in drug product development and basic issues in method development the book Covers a variety of modern methods such as gas chromatography high performance liquid chromatography supercritical fluid chromatography and capillary electrophoresis Deals with the impact of chirality on the biological activity of small and large molecules Provides detailed information on useful chiral stationary phases CSPs for HPLC Includes handy information on selection of an appropriate CSP including mechanistic studies Offers strategies for fast method development with HPLC SFC and CE Discusses preparatory methods utilized in the pharmaceutical industry With in depth discussions of the current state of the field as well as suggestions to assist future developments *Chiral Separation Methods for Pharmaceutical and Biotechnological Products* is an essential text for laboratory investigators managers and regulators who are involved in chiral separations in the pharmaceutical industry as well as students preparing for careers in these fields

Journal of Chromatography ,2003 **Nature** Sir Norman Lockyer,2008

The Practice of Enantiomer Separation by Capillary Gas Chromatography Wilfried A. König,1987 *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 *Encyclopedia of Separation Science* Michael Cooke,C. F. Poole,2000 [A Practical Approach to Chiral Separations by Liquid Chromatography](#) G. Subramanian,1994-10-17 Both analytical and preparative scale enantioseparation techniques are covered in a down to earth practical way The most important aspects of design economics and safety are considered with emphasis on current European and North American legislation In addition the theory of chiral separation is covered in sufficient detail to guide the practising chromatographer interested in developing new techniques A team of experts from academic and industrial laboratories throughout the world have compiled their findings and experience to make this book an exceptionally timely and unique contribution to 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 Separation Techniques](#) G. Subramanian,2001 This is a completely revised and updated sequel to *A Practical Approach to Chiral Separations by Liquid Chromatography* by the same editor The scope has been extended to further chiral separation techniques like electrophoresis membrane separations or biological assays More emphasis is put on preparative separation techniques From reviews of the previous edition A team of experts from academic and industrial laboratories throughout the world have compiled their findings and experience to make this book an exceptionally timely and unique contribution to the field

European Journal of Drug Metabolism The dense mass of information contained in this book will make it a valuable resource

Chemical Engineering Research this is a worthwhile addition to the expanding chiral literature and the book should be of value to those working in this field

The Analyst

**The Encyclopedia of Mass Spectrometry** Michael L. Gross,Wilfried Niessen,R. M. Caprioli,2003 Presents information on the biographies of recognized pioneers and innovators in the field of mass spectrometry Highlights over 120 innovators in mass spectrometry including several Nobel Prize winners Discusses instrumentation and their uses also providing interesting information on the careers characters and life stories of the people who did the work Offers unique insight into the careers and personalities of luminaries in the field

[Bulletin of the Korean Chemical Society](#) ,2006

**Chiral Separations by Chromatography** Satinder Ahuja,2000 A large number of examples are given that will assist in the selection of a method including thin layer chromatography capillary electrophoresis and membrane separations This book will be a reliable guide for those just starting

out in pharmaceutical and related industries as well as those with experience in the field Jacket

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