

SUPERCritical FLUID EXTRACTION AND ITS USE IN CHROMATOGRAPHIC SAMPLE PREPARATION



Edited by
S.A. Westwood



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Supercritical Fluid Extraction And Its Use In Chromatographic Sample Preparation

S Ben Porath



Supercritical Fluid Extraction And Its Use In Chromatographic Sample Preparation:

Supercritical Fluid Extraction and its Use in Chromatographic Sample Preparation S.A. Westwood, 2012-12-06 by Professor D E Games Mass Spectrometry Research Unit University College of Swansea Sample preparation can be viewed as occupying a Cinderella role in analytical science However the quality of sample preparation plays a key role in high In the past decade there has been quality analysis and deserves higher stature considerable interest in the use of supercritical fluid extraction SFE as an alternative to conventional procedures for the preparation of samples for analysis The driving force for this development is the need for automated simpler faster non destructive and selective methods for extraction preferably using non toxic extraction media which are easily disposed of Utilization of supercritical fluids for extraction fulfils these requirements because of their unique physical chemical properties and usually low toxicity Selectivity can be achieved by suitable selection of pressure density temperature and modifier conditions which enable solvating power to be varied The high diffusivity of supercritical fluids provides rapid sample penetration and extraction Use of fluids with low critical temperatures enables extraction to be conducted under mild thermal conditions ensuring that thermally labile compounds do not decompose The technique can be used off line and the extracts analysed by appropriate techniques or it can be used on line by coupling with a variety of chromatographic techniques These can then if necessary be coupled further with spectroscopic techniques such as Fourier transform infrared ultra violet or mass spectrometry to provide specific identification or structural information

Analytical Supercritical Fluid Extraction Techniques E.D. Ramsey, 2012-12-06

During the past decade supercritical fluid extraction SFE has attracted considerable attention as a sample preparation procedure in analytical chemistry The successful implementation of this technique can lead to improved sample throughput more efficient recovery of analytes cleaner extracts economic replacement of halogenated solvents and a high level of automation compared to conventional sample preparation procedures This book provides an overview of basic principles of SFE as well as in depth reviews of both on and off line SFE methods The on line coupling of SFE with both chromatographic and spectroscopic techniques has been the subject of a great deal of research effort and is dealt with in detail Newer developments such as off line SFE of solid and liquid matrices are starting to attract a great deal of interest and the coverage of these areas will prove of particular value to the analytical chemist The international team of authors has illustrated these topics with many state of the art applications and each chapter provides a comprehensive list of references For the convenience of the reader an appendix which contains pressure conversion scales and supercritical fluid carbon dioxide density tables appears at the end of the book The volume's extensive coverage of both on line and off line extraction will be particularly useful to analytical chemists in a wide range of environments seeking to develop high quality simple and robust SFE methods

Supercritical Fluid Methods and Protocols John R. Williams, Anthony A. Clifford, 2008-02-05 Over the last 15 years there has been renewed interest in supercritical fluids owing to their unique properties and relatively low

environmental impact Greatest attention has been given to the extraction and separation of organic compounds Supercritical fluids have also been successfully used for particle production as reaction media and for the destruction of toxic waste Supercritical carbon dioxide has been the most widely used supercritical fluid mainly because it is cheap relatively nontoxic and has convenient critical values Supercritical fluids have also been used on analytical and preparative scales for many biological and other applications Many papers have been published on the use of supercritical fluids However few have acted as a detailed instruction manual for those wanting to use the techniques for the first time We anticipate that this Methods in Biotechnology volume Supercritical Fluid Methods and Protocols will satisfy the need for such a book Every chapter has been written by experienced workers and should if closely followed enable workers with some or no previous experience of supercritical fluids to conduct experiments successfully at the first attempt

Applications of Supercritical Fluids in Industrial Analysis J.R. Dean, 2012-12-06 The continued search for rapid efficient and cost effective means of analytical measurement has introduced supercritical fluids into the field of analytical chemistry Two areas are common supercritical fluid chromatography and supercritical fluid extraction Both seek to exploit the unique properties of a gas at temperatures and pressures above the critical point The most common supercritical fluid is carbon dioxide employed because of its low critical temperature 31 °C inertness purity non toxicity and cheapness Alternative supercritical fluids are also used and often in conjunction with modifiers The combined gas like mass transfer and liquid like solvating characteristics have been used for improved chromatographic separation and faster sample preparation Supercritical fluid chromatography SFC is complementary to gas chromatography GC and high performance liquid chromatography HPLC providing higher efficiency than HPLC together with the ability to analyse thermally labile and high molecular weight analytes Both packed and open tubular columns can be employed providing the capability to analyse a wide range of sample types In addition flame ionization detection can be used thus providing universal detection

Analysis with Supercritical Fluids: Extraction and Chromatography Bernd Wenclawiak, 2012-12-06 The use of supercritical fluids in analytical chemistry is still growing More and more analysts are discovering the favorable advantages for a number of applications Especially supercritical fluid extraction SFE has attracted a lot of interest in recent years due to its simplicity Supercritical fluid chromatography SFC has become better established and the development of this technique has been accelerated by the many applications with capillary columns which have been published in the literature At first SFC equipment was based on instruments commonly used for liquid chromatography and the first commercial instruments were derived from this technology However capillary columns can be much more easily interfaced to gas chromatography equipment especially to the detectors commonly used for GC Many stationary phases both for packed micro columns and capillary columns have been designed for SFC purposes extending this technology to LC and GC The most common fluid applied in SFC and SFE is carbon dioxide The advantages of supercritical CO₂ such as having diffusivity like a gas and solvating power depending on temperature and pressure are also

valid for other fluids and modified fluids Both properties are valuable for sample extraction and extraction selectivity

Practical Supercritical Fluid Chromatography and Extraction Thomas Caudell, 1999-03-08 This book explores the fundamental and practical aspects of supercritical fluid chromatography SFC and extraction It discusses packed columns in SFC detection in SFC supercritical fluid chromatography mass spectroscopy and evaporative light scattering detection in SFC **Supercritical Fluid Extraction and Its Use in Chromatographic Sample Preparation** S. A.

Westwood, 1993-01-01 *Practical Application of Supercritical Fluid Chromatography for Pharmaceutical Research and Development*, 2022-12-02 Practical Application of Supercritical Fluid Chromatography for Pharmaceutical Research and Development provides a valuable go to reference for many difficult to solve challenges using pertinent chromatographic theory first hand case studies and examples provided from academic and industry experts This text also enables professors teaching an analytical instrumental course to introduce and instruct students about one of the most sustainable and powerful separation methods currently available While the text has broad applicability across industrial sectors it focuses primarily on application in the pharmaceutical industry The book is designed to allow readers to align current HPLC UHPLC capabilities with SFC as an orthogonal tool for project specific methods in the pharmaceutical industry It highlights where SFC falls on the spectrum of useful chromatographic tools for routine and challenging separative methods Experienced HPLC users who are interested in developing knowledge in orthogonal separation techniques as well as newcomers to the field of separation science will find this text particularly useful Chapters address where SFC may fit the analytical needs of the pharmaceutical industry and alert the readers as to where the technique will not fit Readers will gain an understanding of how and where SFC may be applied and adapted more routinely across the pharmaceutical industry as a green way of undertaking separation opportunities and challenges Areas within the pharmaceutical industry include early drug discovery process chemistry and late stage development and manufacturing Describes approaches to SFC column and mobile phase selection for method development for both analytical and preparative tasks Gives practical examples of how analytical SFC enables the monitoring of synthetic reactions including unstable intermediates chiral and achiral polar reactants and products across small and large modalities Provides need focused case studies for pharmaceutical analysts process chemists and contract chemistry facilities that can benefit from monitoring or purifying polar intermediates mutagenic impurities nitrosamines and other reaction by products including excipients and metabolites **Advances in Lipid Methodology** R O Adlof, 2003-10-01 The fifth volume in the Advances in lipid methodology series is the first with new editor Richard O Adlof but its objectives are still those of the previous editor William W Christie To provide readable up to date reviews of rapidly expanding areas of lipid analysis and practical examples which should be of immediate use to lipid analysts As in the previous volumes of Advances in lipid methodology the editor has chosen leading international experts to write individual chapters Volume 5 contains four chapters on specific methodologies of lipid analysis and three which describe specific applications or standardization of

methods The methodologies are different scanning calorimetry for the study of physical properties of fats and oils silver ion chromatography atmospheric pressure chemical ionization mass spectrometry APCI MS and supercritical fluid chromatography SFC Chapters on specific applications cover the analysis of genetically modified oils and the use of fatty acid profiling in the characterization of metabolic diseases A further chapter provides an overview of the official standard methods used for fats and oils analysis and gives extensive listings of information on standards organizations *Separation Techniques in Clinical Chemistry* Hassan Y. Aboul-Enein, 2003-05-28 This reference examines innovations in separation science for improved sensitivity and cost efficiency increased speed higher sample throughput and lower solvent consumption in the assessment evaluation and validation of emerging drug compounds It investigates breakthroughs in sample pretreatment HPLC mass spectrometry capillary electrophor

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