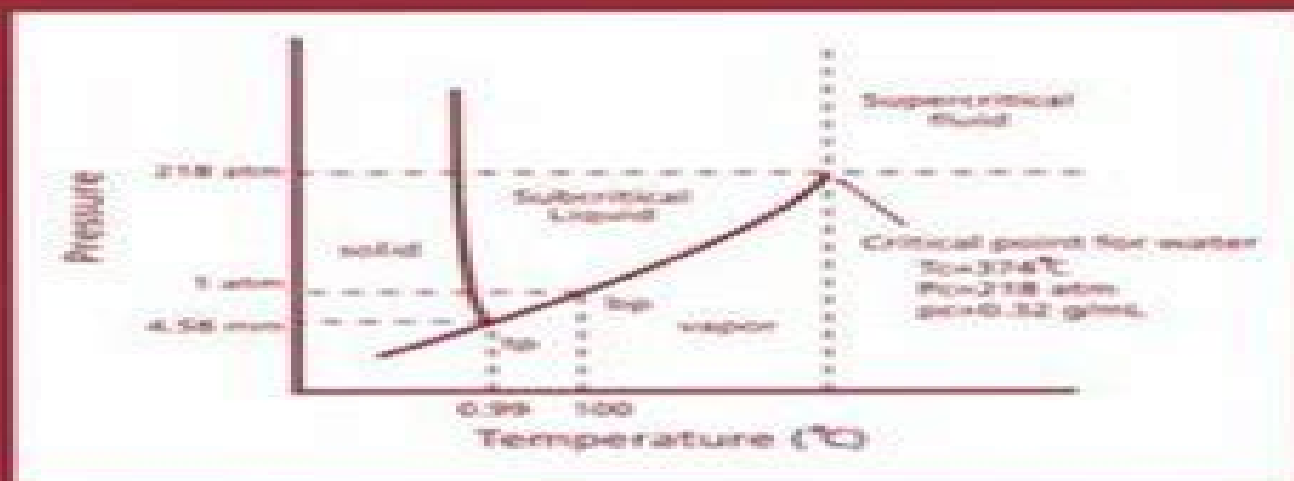


# Supercritical Fluid Technology for Drug Product Development



edited by  
**Peter York**  
**Uday B. Kompella**  
**Boris Y. Shekunov**

# Supercritical Fluid Technology For Drug Product Development

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Shekunov, 2004-03-23 Interconnecting the fundamentals of supercritical fluid SCF technologies their current and anticipated utility in drug delivery and process engineering advances from related methodological domains and pharmaceutical applications this volume unlocks the potential of supercritical fluids to further the development of improved pharmaceutical products from drug powders for respiratory delivery to drug delivery systems for controlled release **Generic Drug**

**Product Development** Isadore Kanfer, Leon Shargel, 2007-11-15 The assessment of bioequivalence is an important process whereby the bioavailability of a generic drug product is compared with its brand name counterpart Generic pharmaceutical products must be approved as therapeutic equivalents to the brand name alternative in order to be interchangeable The demonstration of bioequivalence is an important comp **Handbook of Pharmaceutical Granulation Technology** Dilip

M. Parikh, 2016-04-19 The Third Edition presents all pharmaceutical industry personnel and those in academia with critical updates on the recent advances in granulation technology and changes in FDA regulatory guidelines Addressing precisely how these recent innovations and revisions affect unit operation of particle generation and granulation this text assists the re

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Lechuga-Ballesteros, 2020-02-03 A comprehensive source of information about modern drying technologies that uniquely focus on the processing of pharmaceuticals and biologicals Drying technologies are an indispensable production step in the pharmaceutical industry and the knowledge of drying technologies and applications is absolutely essential for current drug product development This book focuses on the application of various drying technologies to the processing of pharmaceuticals and biologicals It offers a complete overview of innovative as well as standard drying technologies and addresses the issues of why drying is required and what the critical considerations are for implementing this process operation during drug product development Drying Technologies for Biotechnology and Pharmaceutical Applications discusses the state of the art of established drying technologies like freeze and spray drying and highlights limitations that need to be overcome to achieve the future state of pharmaceutical manufacturing The book also describes promising next generation drying technologies which are currently used in fields outside of pharmaceuticals and how they can be implemented and adapted for future use in the pharmaceutical industry In addition it deals with the generation of synergistic effects e g by applying process analytical technology and provides an outlook toward future developments Presents a full technical overview of well established standard drying methods alongside various other drying technologies possible improvements limitations synergies and future directions Outlines different drying technologies from an application oriented point of view and with consideration of real world challenges in the field of drug product development Edited by renowned experts from the pharmaceutical industry and assembled by leading experts from industry and academia Drying Technologies

for Biotechnology and Pharmaceutical Applications is an important book for pharma engineers process engineers chemical engineers and others who work in related industries **Supercritical Antisolvent Precipitation Process** Diego T. Santos,Ádina L. Santana,M. Angela A. Meireles,Ademir José Petenate,Eric Keven Silva,Juliana Q. Albarelli,Júlio C. F. Johner,M. Thereza M. S. Gomes,Ricardo Abel Del Castillo Torres,Tahmasb Hatami,2019-10-12 This book provides deep insights on the fundamentals applications and perspectives of the Supercritical AntiSolvent SAS Precipitation Process Chapter 1 provides recent 2013 2018 reports on the use of supercritical CO<sub>2</sub> SC CO<sub>2</sub> antisolvent for micronization coprecipitation and fractionation of high value products for the food cosmetic and pharmaceutical industries Chapter 2 discusses another variant of the SAS precipitation process called Supercritical fluid extraction of emulsions SFEE This chapter provides recent data from 2016 2018 reports investigation of supercritical extraction of emulsions SFEE to encapsulate compounds of great interest to the food and non food industry Chapter 3 details the design and construction of a SAS Precipitation equipment Chapter 4 presents experimental results regarding the validation of the supercritical particle formation equipment Chapter 5 shows the effects of process parameters during particle precipitation using Combined High Turbulence Extraction Assisted by Ultrasound and Supercritical Antisolvent Fractionation SAF processes applied to semi defatted annatto seeds as a model raw material plant were investigated Chapter 6 shows experimental results regarding the process Ultrasound Emulsification Assisted by Nitrogen Hydrostatic Pressure UEANHP during the emulsification preparation step of the Supercritical Fluid Extraction of Emulsions SFEE process one of the options of the SAS Precipitation based process Finally Chapters 7 and 8 present some perspectives about the economics and process integration with other processes aiming the development of novel conceptual biorefining approaches for plant materials valorization

**Pharmaceutical Drug Product Development and Process Optimization** Sarwar Beg,Majed Al Robaian,Mahfoozur Rahman,Syed Sarim Imam,Nabil Alruwaili,Sunil Kumar Panda,2020-05-01 Pharmaceutical manufacturers are constantly facing quality crises of drug products leading to an escalating number of product recalls and rejects Due to the involvement of multiple factors the goal of achieving consistent product quality is always a great challenge for pharmaceutical scientists This volume addresses this challenge by using the Quality by Design QbD concept which was instituted to focus on the systematic development of drug products with predefined objectives to provide enhanced product and process understanding This volume presents and discusses the vital precepts underlying the efficient effective and cost effective development of pharmaceutical drug products It focuses on the adoption of systematic quality principles of pharmaceutical development which is imperative in achieving continuous improvement in end product quality and also leads to reducing cost time and effort while meeting regulatory requirements The volume covers the important new advances in the development of solid oral dosage forms modified release oral dosage forms parenteral dosage forms semisolid dosage forms transdermal drug delivery systems inhalational dosage forms ocular drug delivery systems nanopharmaceutical products and nanoparticles for oral

delivery      **Pharmacogenomics** Werner Kalow,Urs B. Meyer,Rachel F. Tyndale,2005-09-02 Reflecting the shift from genetics to genomics in the pharmaceutical sphere this Second Edition traces the evolution of the science of pharmacogenetics and gathers research from the forefront of the field spanning the most influential breakthroughs in molecular diagnostics metabonomics proteomics bioinformatics disease mapping pharmacodynamic      **Alternative Solvents for Natural Products Extraction** Farid Chemat,Maryline Abert Vian,2014-08-28 This book presents a complete picture of the current state of the art in alternative and green solvents used for laboratory and industrial natural product extraction in terms of the latest innovations original methods and safe products It provides the necessary theoretical background and details on extraction techniques mechanisms protocols industrial applications safety precautions and environmental impacts This book is aimed at professionals from industry academicians engaged in extraction engineering or natural product chemistry research and graduate level students The individual chapters complement one another were written by respected international researchers and recognized professionals from the industry and address the latest efforts in the field It is also the first sourcebook to focus on the rapid developments in this field      **Microbial Contamination Control in the Pharmaceutical Industry** Luis Jimenez,2004-08-30 This authoritative reference presents an up to date review of the testing methods emerging technologies and analytical systems and procedures used to prevent the microbial contamination of pharmaceutical processes products and environments It identifies new tools for sample analysis and evaluation and the impact of these advancements on the co      *Kirk-Othmer Chemical Technology and the Environment, 2 Volume Set* Wiley,2007-05-21 The two volume reference work Chemical Technology and the Environment provides readers with knowledge on contemporary issues in environmental pollution prevention and control as well as regulatory health and safety issues as related to chemical technology It introduces and expands the knowledge on emerging green materials and processes and greener energy technology as well as more general concepts and methodology including sustainable development and chemistry and green chemistry Based on Wiley s renowned Kirk Othmer Encyclopedia of Chemical Technology this compact reference features the same breadth and quality of coverage and clarity of presentation found in the original      **Global Food Security and Wellness** Gustavo V. Barbosa-Cánovas,Gláucia María Pastore,Kezban Candoğan,Ilce G. Medina Meza,Suzana Caetano da Silva Lannes,Ken Buckle,Rickey Y. Yada,Amauri Rosenthal,2017-05-05 This book is based on selected papers from keynote and symposium sessions given at the 16th International Union of Food Science and Technology IUFoST World Congress held in Foz do Igua u Brazil August 2012 The theme of the Congress was the challenges faced by food science in both the developed and developing regions of the world The symposia featured prominent world renowned keynote and plenary speakers young researchers and the technical sessions covered the whole spectrum of basic and applied food science and technology including consumer issues and education diets and health ethnic foods and R D      **Physico-chemical Aspects of Textile Coloration** Stephen M. Burkinshaw,2016-02-08 The production of textile

materials comprises a very large and complex global industry that utilises a diverse range of fibre types and creates a variety of textile products. As the great majority of such products are coloured predominantly using aqueous dyeing processes, the coloration of textiles is a large scale global business in which complex procedures are used to apply different types of dye to the various types of textile material. The development of such dyeing processes is the result of substantial research activity undertaken over many decades into the physico-chemical aspects of dye adsorption and the establishment of dyeing theory which seeks to describe the mechanism by which dyes interact with textile fibres. **Physico-Chemical Aspects of Textile Coloration** provides a comprehensive treatment of the physical chemistry involved in the dyeing of the major types of natural, man-made and synthetic fibres with the principal types of dye. The book covers fundamental aspects of the physical and chemical structure of both fibres and dyes together with the structure and properties of water in relation to dyeing, dyeing as an area of study as well as the terminology employed in dyeing technology and science, contemporary views of intermolecular forces and the nature of the interactions that can occur between dyes and fibres at a molecular level, fundamental principles involved in dyeing theory as represented by the thermodynamics and kinetics of dye sorption, detailed accounts of the mechanism of dyeing that applies to cotton and other cellulosic fibres, polyester, polyamide, wool, polyacrylonitrile and silk fibres, non-aqueous dyeing as represented by the use of air, organic solvents and supercritical CO<sub>2</sub> fluid as alternatives to water as application medium. The up-to-date text is supported by a large number of tables, figures and illustrations as well as footnotes and widespread use of references to published work. The book is essential reading for students, teachers, researchers and professionals involved in textile coloration.

**Medicinal Chemistry with Pharmaceutical Product Development** Debarshi Kar Mahapatra, Sanjay Kumar Bharti, 2019-02-04. This volume focuses on novel therapeutics and strategies for the development of pharmaceutical products, keeping the drug molecule as the central component. It discusses current theoretical and practical aspects of pharmaceuticals for the discovery and development of novel therapeutics for health problems. Explaining the necessary features essential for pharmacological activity, it takes an interdisciplinary approach by including a unique combination of pharmacy chemistry and medicine along with clinical aspects. It takes into consideration the therapeutic regulations of the USP along with all the latest therapeutic guidelines put forward by WHO and the US Food and Drug Administration.

**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

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Polymeric Drug Delivery Systems Glen S. Kwon,2005-04-12 Emphasizing four major classes of polymers for drug delivery water soluble polymers hydrogels biodegradable polymers and polymer assemblies this reference surveys efforts to adapt modify and tailor polymers for challenging molecules such as poorly water soluble compounds peptides proteins and plasmid DNA

*Green Food Processing Techniques* Farid Chemat,Eugene Vorobiev,2019-07-26 Green Food Processing Techniques Preservation Transformation and Extraction advances the ethics and practical objectives of Green Food Processing by offering a critical mass of research on a series of methodological and technological tools in innovative food processing techniques along with their role in promoting the sustainable food industry These techniques such as microwave ultrasound pulse electric field instant controlled pressure drop supercritical fluid processing extrusion lie on the frontier of food processing food chemistry and food microbiology and are thus presented with tools to make preservation transformation and extraction greener The Food Industry constantly needs to reshape and innovate itself in order to achieve the social financial and environmental demands of the 21st century Green Food Processing can respond to these challenges by enhancing shelf life and the nutritional quality of food products while at the same time reducing energy use and unit operations for processing eliminating wastes and byproducts reducing water use in harvesting washing and processing and using naturally derived ingredients Introduces the strategic concept of Green Food Processing to meet the challenges of the future of the food industry Presents innovative techniques for green food processing that can be used in academia and in industry in R D and processing Brings a multidisciplinary approach with significant contributions from eminent scientists who are actively working on Green Food Processing techniques

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**Inhalation Aerosols** Anthony J. Hickey,Heidi M. Mansour,2019-03-21 Inhalation aerosols continue to be the basis for successful lung therapy for several diseases with therapeutic strategies and the range of technology significantly evolving in recent years In response this third edition takes a new approach to reflect the close integration of technology with its application After briefly presenting the general considerations that apply to aerosol inhalation the central section of the book uses the focus on disease and therapeutic agents to illustrate the application of specific technologies The final integrated strategies section draws the major points from the applications for disease targets and drug products



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