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Rolf Hilfiker and Markus von Raumer

# Polymorphism in the Pharmaceutical Industry

Solid Form and Drug Development



# Polymorphism In The Pharmaceutical And Fine Chemical Industry

**Masami Sakamoto,Hidehiro Uekusa**



## **Polymorphism In The Pharmaceutical And Fine Chemical Industry:**

*Polymorphism* Rolf Hilfiker, 2006-03-17 Edited by one of the leading experts in the field this handbook emphasizes why solid state issues are important which approaches should be taken to avoid problems and exploit the opportunities offered by solid state properties in the pharmaceutical and agricultural industries With its practical approach this is at once a guideline for development chemists just entering the field as well as a high quality source of reference material for specialists in the pharmaceutical and chemical industry structural chemists physicochemists crystallographers inorganic chemists and patent departments     **Polymorphism in the Pharmaceutical Industry** Rolf Hilfiker, Markus von Raumer, 2018-12-14

*Polymorphism in the Pharmaceutical Industry Solid Form and Drug Development* highlights the relevance of polymorphism in modern pharmaceutical chemistry with a focus on quality by design QbD concepts It covers all important issues by way of case studies ranging from properties and crystallization via thermodynamics analytics and theoretical modelling right up to patent issues As such the book underscores the importance of solid state chemistry within chemical and pharmaceutical development It emphasizes why solid state issues are important the approaches needed to avoid problems and the opportunities offered by solid state properties The authors include true polymorphs as well as solvates and hydrates while providing information on physicochemical properties crystallization thermodynamics quantum mechanical modelling and up scaling Important analytical tools to characterize solid state forms and to quantify mixtures are summarized and case studies on solid state development processes in industry are also provided Written by acknowledged experts in the field this is a high quality reference for researchers project managers and quality assurance managers in pharmaceutical agrochemical and fine chemical companies as well as for academics and newcomers to organic solid state chemistry     Polymorphism in the Pharmaceutical Industry Rolf Hilfiker, Markus von Raumer, 2019-04-29 *Polymorphism in the Pharmaceutical Industry Solid Form and Drug Development* highlights the relevance of polymorphism in modern pharmaceutical chemistry with a focus on quality by design QbD concepts It covers all important issues by way of case studies ranging from properties and crystallization via thermodynamics analytics and theoretical modelling right up to patent issues As such the book underscores the importance of solid state chemistry within chemical and pharmaceutical development It emphasizes why solid state issues are important the approaches needed to avoid problems and the opportunities offered by solid state properties The authors include true polymorphs as well as solvates and hydrates while providing information on physicochemical properties crystallization thermodynamics quantum mechanical modelling and up scaling Important analytical tools to characterize solid state forms and to quantify mixtures are summarized and case studies on solid state development processes in industry are also provided Written by acknowledged experts in the field this is a high quality reference for researchers project managers and quality assurance managers in pharmaceutical agrochemical and fine chemical companies as well as for academics and newcomers to organic solid state chemistry     Polymorphism Rolf

Hilfiker,2006-08-21 Edited by one of the leading experts in the field this handbook emphasizes why solid state issues are important which approaches should be taken to avoid problems and exploit the opportunities offered by solid state properties in the pharmaceutical and agricultural industries With its practical approach this is at once a guideline for development chemists just entering the field as well as a high quality source of reference material for specialists in the pharmaceutical and chemical industry structural chemists physicochemists crystallographers inorganic chemists and patent departments

**Chemistry and Industry** ,2012 Advances in Industrial Crystallization Heike Lorenz,Erik Temmel,2021-06-15 This Special Issue is result of a call for papers of the Section Industrial Crystallization of MDPI s scientific journal Crystals It addresses scientists and engineers active in research and process product development in life science industries e g pharmaceuticals fine chemicals and biotechnology products and bulk chemical applications e g desalination as well The contributions comprise several fundamental and application oriented facets of crystallization providing an overview of industrially relevant subjects in the field Main issues cover phase equilibria and solid state behavior of crystalline compounds crystal shape and size and related measurement techniques Melt and solution crystallization are considered specifically addressing contemporary aspects of continuous crystallization and process intensification **Comprehensive**

**Supramolecular Chemistry II** George W. Gokel,Len Barbour,2017-06-22 Comprehensive Supramolecular Chemistry II Second Edition Nine Volume Set is a one stop shop that covers supramolecular chemistry a field that originated from the work of researchers in organic inorganic and physical chemistry with some biological influence The original edition was structured to reflect in part the origin of the field However in the past two decades the field has changed a great deal as reflected in this new work that covers the general principles of supramolecular chemistry and molecular recognition experimental and computational methods in supramolecular chemistry supramolecular receptors dynamic supramolecular chemistry supramolecular engineering crystallographic engineered assemblies sensors imaging agents devices and the latest in nanotechnology Each section begins with an introduction by an expert in the field who offers an initial perspective on the development of the field Each article begins with outlining basic concepts before moving on to more advanced material Contains content that begins with the basics before moving on to more complex concepts making it suitable for advanced undergraduates as well as academic researchers Focuses on application of the theory in practice with particular focus on areas that have gained increasing importance in the 21st century including nanomedicine nanotechnology and medicinal chemistry Fully rewritten to make a completely up to date reference work that covers all the major advances that have taken place since the First Edition published in 1996 **The Chemical Engineer** ,2007 **Advances in Organic Crystal Chemistry** Masami Sakamoto,Hidehiro Uekusa,2020-07-10 This book summarizes and records the recent notable advances in diverse topics in organic crystal chemistry which has made substantial progress along with the rapid development of a variety of analysis and measurement techniques for solid organic materials This review book is one of the volumes that are

published periodically on this theme The previous volume published in 2015 systematically summarized the remarkable progress in assorted topics of organic crystal chemistry using organic solids and organic inorganic hybrid materials during the previous 5 years and it has been widely read The present volume also shows the progress of organic solid chemistry in the last 5 years with contributions mainly by invited members of the Division of Organic Crystal Chemistry of the Chemical Society of Japan CSJ together with prominent invited authors from countries other than Japan

**Modern Chemistry in Industry, I.U.P.A.C./1968**, 1968

Solid State Development and Processing of Pharmaceutical Molecules Michael Gruss, 2021-08-31 Solid State Development and Processing of Pharmaceutical Molecules A guide to the latest industry principles for optimizing the production of solid state active pharmaceutical ingredients Solid State Development and Processing of Pharmaceutical Molecules is an authoritative guide that covers the entire pharmaceutical value chain The authors noted experts on the topic examine the importance of the solid state form of chemical and biological drugs and review the development production quality control formulation and stability of medicines The book explores the most recent trends in the digitization and automation of the pharmaceutical production processes that reflect the need for consistent high quality It also includes information on relevant regulatory and intellectual property considerations This resource is aimed at professionals in the pharmaceutical industry and offers an in depth examination of the commercially relevant issues facing developers producers and distributors of drug substances This important book Provides a guide for the effective development of solid drug forms Compares different characterization methods for solid state APIs Offers a resource for understanding efficient production methods for solid state forms of chemical and biological drugs Includes information on automation process control and machine learning as an integral part of the development and production workflows Covers in detail the regulatory and quality control aspects of drug development Written for medicinal chemists pharmaceutical industry professionals pharma engineers solid state chemists chemical engineers Solid State Development and Processing of Pharmaceutical Molecules reviews information on the solid state of active pharmaceutical ingredients for their efficient development and production

*Computational Pharmaceutical Solid State Chemistry* Yuriy A. Abramov, 2016-04-27 This book is the first to combine computational material science and modeling of molecular solid states for pharmaceutical industry applications Provides descriptive and applied state of the art computational approaches and workflows to guide pharmaceutical solid state chemistry experiments and to support troubleshoot API solid state selection Includes real industrial case examples related to application of modeling methods in problem solving Useful as a supplementary reference text for undergraduate graduate and postgraduate students in computational chemistry pharmaceutical and biotech sciences and materials science

**Principles of Process Research and Chemical Development in the Pharmaceutical Industry** Oljan Repic, 1998 Dr Oljan Repic clearly explains the goals and basic principles of chemical development He explores the crucial aspects of a new process that must be considered when scaling up a research synthesis to industrial

levels And with the help of many case studies and vignettes he delineates each phase of the development process Key topics include qualities of an ideal process techniques for minimizing impurities criteria for cost effective synthesis of enantiopure compounds by resolutions asymmetric synthesis and the chiral pool strategy synthesis for labeling substances with hydrogen or carbon isotopes and new drug registration requirements This book is an invaluable reference for professionals as well as an important source of guidance and inspiration for young chemists considering entering the field      **Comprehensive**

**Medicinal Chemistry** Corwin Hansch, Peter George Sammes, John Bodenhan Taylor, 1990 V 1 General principles volume editor Peter D Kennewell v 2 Enzymes other molecular targets volume editor Peter G Sammes v 3 Membranes receptors volume editor John C Emmett v 4 Quantitative drug design volume editor Christopher A Ramsden v 5 Biopharmaceutics volume editor John B Taylor v 6 Cumulative subject index drug compendium volume editor Colin J Drayton      **Current**

**Topics in Materials Science** Emanuel Kaldis, 1982      *Ionic Liquids and Their Application in Green Chemistry* Jamal Akhter Siddique, Akil Ahmad, Mohammad Jawaid, 2023-07-20 Ionic liquids and Their Application in Green Chemistry covers the synthesis and characterization of a broad range of ionic liquids ILs and their polymers along with their application in multiple areas for nanomaterials and environmental sustainability The book provides reference material for future research in IL based technologies for environmental and energy applications It covers not only the conventional IL applications but also advanced IL polymer based materials and their application in energy storage and energy generator applications Finally the book discusses the major fields of application of IL based materials in synthesis of nanomaterials and the role in graphene synthesis and its composites Written by eminent scholars and leading experts from around the world this book brings the literature up to date on the most recent progress in the field of IL based materials and their applications for the environmental sustainability Covers a broad area of applications discussing the combination of materials and green chemistry along with ILs Provides complete information on the relationship between IL based nanocomposites and their application in energy harvesting Presents detailed case studies to help readers understand all the pros and cons of using these materials in their future research      *Membrane-assisted Crystallization Technology* Enrico Drioli, Gianluca Di Profio, Efrem Curcio, 2015-09-16 This book covers all the basic and applied aspects of crystallization processes based on membrane technology Synthesis and processing of membrane materials are discussed and reviewed while mass heat transport and control are treated in view of the non reversible thermodynamic principles and statistical thermodynamics Engineering process design and crystalline materials products properties and also the relation to other traditional crystallization formats are analyzed Advantages limitations and future developments are also included in the content with special emphasis on new fields of applications like microfluidic configurations controlled proteins also membrane proteins crystallization organic semiconductors single crystals production and optical materials      **New Scientist**, 1999

**Chemical Product Design: Towards a Perspective through Case Studies** Ka M. Ng, Rafiqul Gani, Kim

Dam-Johansen, 2006-10-24 Chemical Product Design Towards a Perspective through Case Studies provides a framework for chemical product design problems which are clearly defined together with different solution approaches. This book covers the latest methods and tools currently available in the field and discusses future challenges that the chemical industry is faced with. It focuses on important issues of chemical product design and provides a good overview on industrial chemical product design problems through case studies supplied by leading experts. The editors of Chemical Product Design teach chemical product design at graduate level courses and also serve as consultants for various chemical companies. They have also developed experimental techniques for chemical product design as well as computer aided design methods and tools. Highlights important issues of chemical product design through case studies. Case studies supplied by leading experts in chemical product design. Provides a complete framework for chemical product design. **Handbook of Pharmaceutical**

**Manufacturing Formulations, Third Edition** Sarfaraz K. Niazi, 2019-11-25 The Handbook of Pharmaceutical Manufacturing Formulations Third Edition Volume Two Uncompressed Solid Products is an authoritative and practical guide to the art and science of formulating drugs for commercial manufacturing. With thoroughly revised and expanded content, this second volume of a six volume set compiles data from FDA and EMA new drug applications, patents and patent applications and other sources of generic and proprietary formulations, including author's own experience, to cover the broad spectrum of cGMP formulations and issues in using these formulations in a commercial setting. A must have collection for pharmaceutical manufacturers, educational institutions and regulatory authorities, this is an excellent platform for drug companies to benchmark their products and for generic companies to formulate drugs coming off patent. Features: Largest source of authoritative and practical formulations; cGMP compliance guidance and self audit suggestions. Differs from other publications on formulation science in that it focuses on readily scalable commercial formulations that can be adopted for cGMP manufacturing. Tackles common difficulties in formulating drugs and presents details on stability testing, bioequivalence testing and full compliance with drug product safety elements. Written by a well recognized authority on drug and dosage form development, including biological drugs and alternative medicines.

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