

SOLID-STATE CHEMISTRY OF DRUGS



Figure 1. Crystalline solid.



Figure 2. Amorphous solid.

Dr. Ravi K. Sharma
Dr. Ravi K. Sharma
Dr. Ravi K. Sharma

Figure 3. Crystalline solid.

Solid State Chemistry Of Drugs

Ron Liu



Solid State Chemistry Of Drugs:

Solid-state Chemistry of Drugs Stephen R. Byrn, 1999 **Solid State Chemistry of Drugs** Stephen R. Byrn, 1982-01-01 *Developing Solid Oral Dosage Forms* Yihong Qiu, Yisheng Chen, Geoff G.Z. Zhang, Lirong Liu, William Porter, 2009-03-10

Developing Solid Oral Dosage Forms is intended for pharmaceutical professionals engaged in research and development of oral dosage forms. It covers essential principles of physical pharmacy, biopharmaceutics, and industrial pharmacy, as well as various aspects of state-of-the-art techniques and approaches in pharmaceutical sciences and technologies, along with examples and/or case studies in product development. The objective of this book is to offer updated or current knowledge and skills required for rational oral product design and development. The specific goals are to provide readers with Basics of modern theories of physical pharmacy, biopharmaceutics, and industrial pharmacy and their applications throughout the entire process of research and development of oral dosage forms. Tools and approaches of preformulation investigation, formulation process design, characterization, and scale-up in pharmaceutical sciences and technologies. New developments, challenges, trends, opportunities, intellectual property issues, and regulations in solid product development. The first book ever that provides comprehensive and in-depth coverage of what is required for developing high-quality pharmaceutical products to meet international standards. It covers a broad scope of topics that encompass the entire spectrum of solid dosage form development for the global market, including the most updated science and technologies, practice applications, regulation, intellectual property protection, and new development trends, with case studies in every chapter. A strong team of more than 50 well-established authors, co-authors of diverse background, knowledge, skills, and experience from industry, academia, and regulatory agencies.

Water-Insoluble Drug Formulation Ron Liu, 2008-01-18

Scientists have attributed more than 40 percent of the failures in new drug development to poor biopharmaceutical properties, particularly water insolubility. Issues surrounding water insolubility can postpone or completely derail important new drug development. Even much-needed reformulation of currently marketed products can be significantly affected by these challenges. Water Insolubility is the Primary Culprit in over 40% of New Drug Development Failures. The most comprehensive resource on the topic, this second edition of *Water Insoluble Drug Formulation* brings together a distinguished team of experts to provide the scientific background and step-by-step guidance needed to deal with solubility issues in drug development. Twenty-three chapters systematically describe solubility properties and their impact on formulation, from theory to industrial practice. With detailed discussion on how these properties contribute to solubilization and dissolution, the text also features six brand-new chapters on water-insoluble drugs, exploring regulatory aspects, pharmacokinetic behavior, early phase formulation strategies, lipid-based systems for oral delivery, modified release of insoluble drugs, and scalable manufacturing aspects. The book includes more than 15 water-insoluble drug delivery systems or technologies illustrated with case studies featuring oral and parenteral applications. Highlighting the most current information and data available, this

seminal volume reflects the significant progress that has been made in nearly all aspects of this field

Solid State Characterization of Pharmaceuticals Richard A. Storey, Ingvar Ymén, 2011-03-31 The field of solid state characterization is central to the pharmaceutical industry as drug products are in an overwhelming number of cases produced as solid materials Selection of the optimum solid form is a critical aspect of the development of pharmaceutical compounds due to their ability to exist in more than one form or crystal structure polymorphism These polymorphs exhibit different physical properties which can affect their biopharmaceutical properties This book provides an up to date review of the current techniques used to characterize pharmaceutical solids Ensuring balanced practical coverage with industrial relevance it covers a range of key applications in the field The following topics are included Physical properties and processes Thermodynamics Intellectual guidance X ray diffraction Spectroscopy Microscopy Particle sizing Mechanical properties Vapour sorption Thermal analysis Calorimetry Polymorph prediction Form selection

Handbook of Stability Testing in Pharmaceutical Development Kim Huynh-Ba, 2008-11-16 This handbook is the first to cover all aspects of stability testing in pharmaceutical development Written by a group of international experts the book presents a scientific understanding of regulations and balances methodologies and best practices

Solid-State Materials in Pharmaceutical Chemistry Stephen R. Byrn, George Zograf, Xiaoming (Sean) Chen, 2025-10-28 Updated and expanded information on the properties of pharmaceutical solids and their impact on drug product performance quality and stability Solid State Materials in Pharmaceutical Chemistry provides readers with a comprehensive and up to date resource for understanding and controlling the solid state properties of pharmaceutical materials enabling the development of safe and effective medicines including small molecule compounds peptides proteins and nucleotides This new edition covers the significant transformations in the landscape of pharmaceutical research development and manufacturing since the previous edition was published presenting both novel challenges and unprecedented opportunities New chapters in this edition cover physical and chemical properties of RNA therapeutics a frontier to many life saving medicines and vaccines including Covid vaccines and final stage drug substance manufacturing and control addressing challenges in API process development including impurity purging chiral separation final form preparation particle size reduction and nitrosamine control Readers will also find other updated topics including bulk and surface properties of solids lipid nanoparticles applications of pharmaceutical solvates in impurity purging and final form preparation pharmaceutical cocrystal engineering to enable chiral separation the emerging technique of microcrystal electron diffraction in solid form characterization poor wettability of APIs oral delivery of peptides such as semaglutide injectable drug device combination products and N nitrosamine control in drug product This updated and revised Second Edition still features Physical and chemical properties of solid state pharmaceuticals such as amorphous forms mesophases polymorphs hydrates solvates salts co crystals nano particles and solid dispersions Characterization techniques for solid form identification and physical attribute analysis such as X Ray powder diffraction thermal analysis microscopy spectroscopy

solid state NMR particle analysis water sorption mechanical property testing solubility and dissolution Applications of pharmaceutical chemistry and physical characterization techniques in developing and testing drug substances and drug products for small molecules and biopharmaceuticals This book is an essential resource on the subject for formulation scientists process chemists medicinal chemists and analytical chemists The book will also appeal to quality control quality assurance and regulatory affair specialists and advanced undergraduate and graduate students in pharmaceutical chemistry drug delivery material science crystal engineering pharmaceutics and biopharmaceutics

Solid State Development and Processing of Pharmaceutical Molecules Michael Gruss, 2021-11-16 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

Solid State Characterization of Pharmaceuticals Angeline Zakrzewski, Marek Zakrzewski, 2006

Solid-State Properties of Pharmaceutical Materials Stephen R. Byrn, George Zografi, Xiaoming (Sean) Chen, 2017-07-17 Presents a detailed discussion of important solid state properties methods and applications of solid state analysis Illustrates the various phases or forms that solids can assume and discusses various issues related to the relative stability of solid forms and tendencies to undergo transformation Covers key methods of solid state analysis including X ray powder diffraction thermal analysis microscopy spectroscopy and solid state NMR Reviews critical physical attributes of pharmaceutical materials mainly related to drug substances including particle size surface area hygroscopicity mechanical properties solubility and physical and chemical stability Showcases the application of solid state material science in rational selection of drug solid forms analysis of various solid forms within drug

substance and the drug product and pharmaceutical product development Introduces appropriate manufacturing and control procedures using Quality by Design and other strategies that lead to safe and effective products with a minimum of resources and time

Polymorphism in Pharmaceutical Solids, Second Edition H. G. Brittain, 2009-07-27 Using clear and practical examples this volume presents a comprehensive examination of polymorphic behavior in pharmaceutical development The book is ideal for pharmaceutical development scientists and graduate students in pharmaceutical science This second edition focuses on the pharmaceutical aspects of polymorphism and solvatomorphism while systematically explaining their thermodynamic and structural origins Topics in this edition include computational methodologies high throughput screening methods pharmaceutical cocrystals and thermally induced and solution mediated phase transformations The book also examines amorphous solids the amorphous state and crystallography preparation and characterization

The Chemistry of the Quinonoid Compounds Zvi Rappoport, 1987

Guide to the Literature of Pharmacy and the Pharmaceutical Sciences Theodora Andrews, 1986 Compilation of 958 sources intended primarily for librarians Author title and subject indexes

The Publishers' Trade List Annual, 1979

Structure and Properties of Molecular Crystals Marcel Pierrot, 1990 The purpose of this book is to focus attention on crystallographic research on molecular crystals In recent years molecular crystals have ceased to be regarded as mere laboratory curiosities especially since they have begun to make their appearance in the industrial field This volume consists of three parts comprising six chapters Part one is devoted to various aspects of the study of crystals A knowledge of the three dimensional structure of molecules is absolutely essential in order to understand the nature of chemical bonds and the mechanism and dynamics of reactions Chapter one deals with the study of molecular structures by X ray diffraction This brings out the results that one may expect from the analysis of crystal structures Recent results concerning molecular conformation and chemical reactivity are also described By means of numerous examples chapter two illustrates the importance of studying organic reactions in the solid state A number of new reactions are also presented In the future crystallography may be used to predict crystal structures Crystal engineering is of the utmost importance in designing new materials

Enhancing the Pharmaceutical Behavior of Poorly Soluble Drugs Through the Formation of Cocrystals and Mesophases Barbara Rodriguez Spong, 2005

Encyclopedia of Inorganic Chemistry R. Bruce King, 1994 Not Obtainable

Peterson's Guide to Graduate Programs in the Biological Sciences 1997 Peterson's, 1997-01-05 Graduate students depend on this series and ask for it by name Why For over 30 years it s been the only one stop source that supplies all of their information needs The new editions of this six volume set contain the most comprehensive information available on more than 1 500 colleges offering over 31 000 master s doctoral and professional degree programs in more than 350 disciplines New for 1997 Non degree granting research centers institutes and training programs that are part of a graduate degree program Five discipline specific volumes detail entrance and program requirements deadlines costs contacts and special options such as distance learning for

each program if available Each Guide features The Graduate Adviser which discusses entrance exams financial aid accreditation and more The only source that covers nearly 4 000 programs in such areas as oncology conservation biology pharmacology and zoology **Encyclopedia of Inorganic Chemistry, 10 Volume Set** R. Bruce King,2005-10-14 The first edition of the Encyclopedia of Inorganic Chemistry treated the elements of the periodic system in alphabetical order with multiple entries for key elements The articles from the First Edition were written more than 10 years ago and all areas of inorganic chemistry have seen such a vigorous development that it was necessary to update most articles and to add a considerable number of new articles The result of this major work is the proud Encylopedia of Inorganic Chemistry Second Edition EIC 2 Midwest **Peterson's Guide to Graduate Programs in the Biological and Agricultural Sciences** ,1990

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