



Polymorphism In The Pharmaceutical Industry

John Bodenhan Taylor, D. J. Triggle



Polymorphism In The Pharmaceutical Industry:

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

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

Industrial Crystallization Alison Lewis,Marcelo Seckler,Herman Kramer,Gerda van Rosmalen,2015-07-02 Bridging the gap between theory and practice this text provides the reader with a comprehensive overview of industrial crystallization Newcomers will learn all of the most important topics in industrial crystallization from key concepts and basic theory to industrial practices Topics covered include the characterization of a crystalline product and the basic process design for crystallization as well as batch crystallization measurement techniques and details on precipitation melt crystallization and polymorphism Each chapter begins with an introduction explaining the importance of the topic and is supported by homework problems and worked examples Real world case studies are also provided as well as new industry relevant information making this is an ideal resource for industry practitioners students and researchers in the fields of industrial crystallization separation processes particle synthesis and particle technology

Thermal Analysis of Pharmaceuticals Duncan Q.M. Craig, Mike Reading,2006-12-21 As a result of the Process Analytical Technologies PAT initiative launched by the U S Food and Drug Administration FDA analytical development is receiving more attention within the pharmaceutical industry Illustrating the importance of analytical methodologies Thermal Analysis of Pharmaceuticals presents reliable and versatile charac

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revised and expanded section on the major epithelial routes of drug delivery currently under investigation Describes the most recent emerging and innovative technologies of drug delivery Provides real life examples of the clinical translation of drug delivery technologies through the use of case studies Discusses the pertinent regulatory hurdles and safety issues of drug delivery and targeting systems crucial considerations in order to achieve licensing approval for these new technologies

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