

Solid State Properties Of Pharmaceutical Materials

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Solid State Properties Of Pharmaceutical

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Solid-State Properties of Pharmaceutical Materials | Wiley

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

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Solid-State Properties of Pharmaceutical Materials presents a detailed discussion of important solid-state properties, and methods of solid-state analysis. The text is split into four parts which includes physical forms of pharmaceutical solids, methods of analysis, critical properties of pharmaceutical solids, and important applications of physical characterization.

Solid-State Properties of Pharmaceutical Materials ...

Solid-state chemistry and the solid-state properties of pharmaceutical materials play an ever increasing and important role in pharmaceutical development.

Solid-State Properties and Pharmaceutical Development ...

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SOLID-STATE PROPERTIES OF PHARMACEUTICAL MATERIALS

Solid-State Properties of Pharmaceutical Materials; Contents; Preface; Acknowledgments; 1 Solid-State Properties and Pharmaceutical Development; 1.1 Introduction; 1.2 Solid-State Forms; 1.3 ICH Q6A Decision Trees; 1.4 "Big Questions" for Drug Development; 1.5 Accelerating Drug Development; 1.6 Solid-State Chemistry in Preformulation and Formulation; 1.7 Learning Before Doing and Quality by ...

Solid state properties of pharmaceutical materials in ...

2 1 Relevance of Solid-state Properties for Pharmaceutical Products Fig. 1.1 Schematic depiction of various types of solid forms. In fact, the whole existence of a drug is affected by the properties of the solid form, and the final goal of solid form development is to find and select the sol-

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From the Back Cover: . Presents a detailed discussion of important solid-state properties, methods, and applications of solid-state analysis . The study on solid-state properties of pharmaceutical materials, including drug substances and excipients, is essential for pharmaceutical research and development involving solid dosage forms.

9781118145302: Solid-State Properties of Pharmaceutical ...

Are you fully aware that many essential physicochemical properties of an Active Pharmaceutical Ingredient (API) depend on its solid-state structure? Solubility, bioavailability at desired levels, shelf-life stability, hygroscopicity, compressibility, tableting ability, electrostatic charging, plus many others, can be crucial properties.

Solid-state analysis of active pharmaceutical ingredients ...

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The solid state properties (physical form and particle size) are critical for the increasing number of BCS Class II (and class IV) small pharmaceutical molecules under development has it as direct impact on the bioavailability. BCS = Biopharmaceutics Classification System.

Solid State Development - Development of small ...

and manufacture of solid dosage forms 28 1.6 Biopharmaceutical importance of particle size 29 1.7 Wetting of powders 31 1.8 Sublimation 34 1.9 Solid dispersions 38 Summary 41 References 42 The physical properties of the solid state seen in crystals and powders of both drugs and pharmaceutical ...

Solids - Pharmaceutical Press

Relevance of Solid-state Properties for Pharmaceutical Products

Relevance of Solid-state Properties for Pharmaceutical ...

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