

Developments And Applications In Solubility

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solubility is fundamental to most areas of chemistry and is one of the most basic of thermodynamic properties it underlies most industrial processes bringing together the latest developments and ideas developments and applications in solubility covers many varied and disparate topics the book is a collection of work from leading experts in their fields and covers the theory of solubility modelling and simulation industrial applications and new data and recent developments relating to solubility of particular interest are sections on experimental calculated and predicted solubilities solubility phenomena in green quaternary mixtures involving ionic liquids molecular simulation approaches to solubility solubility impurities in cryogenic liquids and carbon dioxide in chemical processes the book is a definitive and comprehensive reference to what is new in solubility and is ideal for researcher scientists industrialists and academics

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this book presents recent advances in the use of ionic liquids in medicine and pharmaceuticals with particular emphasis on addressing critical pharmaceutical challenges including the low solubility polymorphism and bioavailability of drugs it also provides insights into the development of the biologically functionalized ionic liquids suitable for medical and pharmaceutical applications ionic liquids have been used as potential solvents or materials in the fields of pharmaceutical drug delivery and formulations because of their unique and tunable physicochemical and biological properties readers find explanations of the diverse approaches to the application of ionic liquids in drug solubility active pharmaceutical ingredient api formulation and drug delivery systems such as topical transdermal and oral delivery with particular emphasis on recent developments particular attention is given to the development of ionic liquid assisted effective drug delivery techniques for sparingly soluble or insoluble drug molecules this book also discusses the biological activities of ionic liquids for possible applications in drug formulation and drug delivery systems scientists in disciplines such as chemistry biology and pharmaceuticals find this book instructive and informative for developing ionic liquid based drug formulations or drug delivery systems

includes list of members 1882 1902 proceedings of the annual meetings and various supplements

engineering plant based food systems provides a comprehensive in depth understanding on the technologies used to create quality plant based foods this title helps researchers and food processors gain an understanding of the diverse aspects of plant based foods with a focus to meet the current consumers demand of alternatives to animal products this is a one stop source that provides maximum information related to plant based foods to food science researchers food engineers and food processing manufacturers this book will enhance their understanding of plant based protein sources their application product manufacturing and bioavailability in recent

years the emphasis on minimizing environmental footprints climate change greenhouse gas emissions deforestation and loss of biodiversity and human health issues related to animal source food intakes has shifted the attention of researchers dietitians and health professionals from animal based diets to diets rich in plant based foods legumes nuts seeds explores the plant sources available for extraction of proteins the various extraction methods and the quality and functionality of the extracted proteins describes existing plant based foods such as beverages yogurts spreads fermented foods and meats provides information related to various plant based functional components such as polyphenols phytosterols aromatics and essential oils etc

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