

# Solid Acids And Bases As Catalysts

**Table 12.9 Some common solid acids and bases**

Material	Type	Material	Type
silica/alumina	solid acid	Mordenite	zeolite
alumina	solid acid	ZSM-5	zeolite
Y-zeolite	zeolite	VFI	large pore zeolite
Faugasite			
Sodalite	zeolite	Offretite	zeolite
HF-SbF <sub>5</sub>	superacid	HSO <sub>3</sub> F	superacid
H <sub>2</sub> [Ti <sub>6</sub> O <sub>4</sub> (SO <sub>4</sub> ) <sub>4</sub> (OEt) <sub>10</sub> ]	superacid	Sulfated Zirconia	superacid
MgO	solid base	Na <sub>2</sub> O	base

# Solid Acids And Bases

**Fabrizio Cavani, Gabriele Centi, Siglinda  
Perathoner, Ferruccio Trifirò**

## **Solid Acids And Bases:**

Solid Acids and Bases Kozo Tanabe, 2012-12-02 Solid Acids and Bases Their Catalytic Properties reviews developments in the studies of acidic and basic properties of solids including the efficacy and special characteristics of solid acid and base catalysts This book discusses the determination of basic and acidic properties on solid surfaces and relationship between acid strength and acid amount The structure and acid base properties of mixed metal oxides and correlation between acid base properties and catalytic activity and selectivity are also deliberated This publication is useful to professional chemists and graduate students in the fields of organic inorganic and physical chemistry petroleum chemistry and catalysis including readers interested in the acidic and basic properties on solid surfaces *New Solid Acids and Bases* K. Tanabe, M.

Misono, H. Hattori, Y. Ono, 1990-02-02 This volume summarises and reviews the enormous progress made over the past two decades in solid acids and bases with emphasis on fundamental aspects and chemical principles In recent years many new kinds of solid acids and bases have been found and synthesized The surface properties in particular acidic and basic properties and the structures of the new solids have been clarified by newly developed measurement methods using modern instruments and techniques The characterized solid acids and bases have been applied as catalysts for diversified reactions many good correlations being obtained between the acid base properties and the catalytic activities or selectivities Recently acid base bifunctional catalysis on solid surfaces is becoming a more and more important and intriguing field of study It has been recognized that the acidic and basic properties of catalysts and catalyst supports play an important role in oxidation reduction hydrogenation hydrocracking etc The effect of the preparation method and the pretreatment conditions of solid acids and bases on the acidic and basic properties the nature of acidic and basic sites and the mechanism regarding the generation of acidity and basicity have been elucidated experimentally and theoretically On the basis of the accumulated knowledge of solid acids and bases it is now possible to design and develop highly active and selective solid acid and base catalysts for particular reactions The chemistry of solid acids and bases is now being related to and utilized in numerous areas including adsorbents sensors cosmetics fuel cells sensitized pressed papers and others The information presented in this book will therefore be of interest to a wide ranging readership New Solid Acids and Bases Kōzō Tanabe, 1989

**New Solid Acids and Bases**, 1989 **Acidity and Basicity of Solids** Jacques P. Fraissard, Leonidas Petrakis, North Atlantic Treaty Organization. Scientific Affairs Division, 1994 Historically technological developments that have made use of the acidity basicity of solids have often preceded an understanding of the phenomena involved This of course is very expensive and a far less efficient process than research based on a fundamental understanding of the science For the last 50 years therefore a vast amount of research has been devoted to the subject the rewards in terms of technological advantage were seen to be high *Solid Base Catalysis* Yoshio Ono, Hideshi Hattori, 2012-08-31 The importance of solid base catalysts has come to be recognized for their environmentally benign qualities and much significant progress has been made over the

past two decades in catalytic materials and solid base catalyzed reactions The book is focused on the solid base Because of the advantages over liquid bases the use of solid base catalysts in organic synthesis is expanding Solid bases are easier to dispose than liquid bases separation and recovery of products catalysts and solvents are less difficult and they are non corrosive Furthermore base catalyzed reactions can be performed without using solvents and even in the gas phase opening up more possibilities for discovering novel reaction systems Using numerous examples the present volume describes the remarkable role solid base catalysis can play given the ever increasing worldwide importance of green chemistry The reader will obtain an overall view of solid base catalysis and gain insight into the versatility of the reactions to which solid base catalysts can be utilized The concept and significance of solid base catalysis are discussed followed by descriptions of various methods for the characterization of solid bases including spectroscopic methods and test reactions The preparation and properties of base materials are presented in detail with the two final chapters devoted to surveying the variety of reactions catalyzed by solid bases

**Solid Acid Catalysis** Hideshi Hattori, Yoshi Ono, 2015-04-01 Solids that possess acidic properties on their surfaces function as catalysts just like liquid acids such as sulfuric acid and hydrochloric acid By using solid acid catalysts chemical processes become more productive and more environmentally friendly In fact solid acids are being used in many industrial chemical processes from the largest chem

**Solid Base Catalysts** K. K. Pant, Ramesh Chandra, Ravi Tomar, 2025-02-03 Foundational knowledge and practical approaches of an interesting catalyst class for greener and cleaner chemical synthesis Solid Base Catalysts provides insights and information on cutting edge heterogeneous catalysis technologies and approaches of non corrosive and easy to use solid catalysts that can replace conventional liquid catalysts that are known to pose operational problems Edited by three highly qualified authors with contributions from experts in industry and academia Solid Base Catalysts includes Latest and most advanced studies in the characterization of solid catalysts with applications in various organic transformations Versatile reaction types where solid catalysts can be used as well as the multidisciplinary nature of solid base catalyst research and its connections to other fields Multicomponent reactions for eco compatible heterocyclic synthesis over solid catalysts and synthesis routes experimental protocols and other considerations for optimizing catalyst properties Advanced methodologies and applications for analyzing solid catalysts and challenges and future prospects in the field Solid Base Catalysts is a complete reference on the subject for researchers and professionals in materials science green chemistry surface chemistry and chemical engineering

Catalysis by Solid Acids and Bases John A. Horsley, 1993 *Preparation of Solid Catalysts* Gerhard Ertl, Helmut Knözinger, Jens Weitkamp, 1999-11-12

Solid catalysts play a fundamental role in all areas between basic research and industrial applications This book offers a large amount of information about the preparation of solid catalysts All types of solid catalysts and all important aspects of their preparation are discussed The highly topical contributions are written by leading experts in disciplines ranging from solid state interface and solution chemistry to industrial engineering The straightforward presentation of the material and

the comprehensive coverage make this book an essential and indispensable tool for every scientist and engineer working with solid catalysts Catalysis. Volume 2 J. R. Anderson, M. Boudart, 2022-03-21 No detailed description available for

CATALYSIS VOL 2 E BOOK **Containment of High-Level Radioactive and Hazardous Solid Wastes with Clay Barriers** Raymond N. Yong, Roland Pusch, Masashi Nakano, 2010-05-31 One of the principal objections to or problems with the use of nuclear fuel is that a proven method for safe disposal of spent nuclear fuel has yet to be established The central focus of most schemes underway to dispose of these high level radioactive wastes relies on clay based buffers and barriers to isolate spent fuel canisters in borehole **Metal Oxides in Heterogeneous Catalysis** Jacques C. Vedrine, 2018-01-11

Metal Oxides in Heterogeneous Catalysis is an overview of the past present and future of heterogeneous catalysis using metal oxides catalysts The book presents the historical theoretical and practical aspects of metal oxide based heterogeneous catalysis Metal Oxides in Heterogeneous Catalysis deals with fundamental information on heterogeneous catalysis including reaction mechanisms and kinetics approaches There is also a focus on the classification of metal oxides used as catalysts preparation methods and touches on zeolites mesoporous materials and Metal organic frameworks MOFs in catalysis It will touch on acid or base type reactions selective partial and total oxidation reactions and enzymatic type reactions The book also touches heavily on the biomass applications of metal oxide catalysts and environmentally related depollution reactions such as COVs elimination DeNOx and DeSOx Finally the book also deals with future trends and prospects in metal oxide based heterogeneous catalysis Presents case studies in each chapter that provide a focus on the industrial applications Includes fundamentals key theories and practical applications of metal oxide based heterogeneous catalysis in one comprehensive resource Edited and contributed by leading experts who provide perspectives on synthesis characterization and applications **Comprehensive Inorganic Chemistry II**, 2013-07-23 Comprehensive Inorganic Chemistry II Nine

Volume Set reviews and examines topics of relevance to today's inorganic chemists Covering more interdisciplinary and high impact areas Comprehensive Inorganic Chemistry II includes biological inorganic chemistry solid state chemistry materials chemistry and nanoscience The work is designed to follow on with a different viewpoint and format from our 1973 work Comprehensive Inorganic Chemistry edited by Bailar Emel us Nyholm and Trotman Dickenson which has received over 2 000 citations The new work will also complement other recent Elsevier works in this area Comprehensive Coordination Chemistry and Comprehensive Organometallic Chemistry to form a trio of works covering the whole of modern inorganic chemistry Chapters are designed to provide a valuable long standing scientific resource for both advanced students new to an area and researchers who need further background or answers to a particular problem on the elements their compounds or applications Chapters are written by teams of leading experts under the guidance of the Volume Editors and the Editors in Chief The articles are written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource for information in the field The chapters will not provide basic data on the

elements which is available from many sources and the original work but instead concentrate on applications of the elements and their compounds Provides a comprehensive review which serves to put many advances in perspective and allows the reader to make connections to related fields such as biological inorganic chemistry materials chemistry solid state chemistry and nanoscience Inorganic chemistry is rapidly developing which brings about the need for a reference resource such as this that summarise recent developments and simultaneously provide background information Forms the new definitive source for researchers interested in elements and their applications completely replacing the highly cited first edition which published in 1973     Advances in Microwave-assisted Heterogeneous Catalysis Jianli Hu,Benjaram M. Reddy,2023-11-03

Historically the field of heterogeneous catalysis has focused on the design and optimisation of the catalytic materials However as these optimisations start to reach diminishing returns attention has turned to non conventional means for improving reaction conditions such as the use of ultrasound plasma electromagnetic heating and microwave heating Microwave assisted catalysis has been demonstrated to be useful in a wide range of applications including ammonia synthesis desulfurization and production of chemicals from biomass Advances in Microwave assisted Heterogeneous Catalysis begins with the basics of microwave heating and the role of microwaves in heterogeneous catalysis It goes on to cover the mechanisms of microwave specific reaction rate enhancement microwave assisted synthesis of porous nonporous and supported metal catalysts microwave augmented reactor technology and microwave induced catalysis The application of microwave assisted heterogeneous catalysis in various fields of energy conversion environmental remediation and bulk and specialty chemicals synthesis are also discussed making this a great reference for anyone involved in catalysis research

**Solid-State Properties of Pharmaceutical Materials** Stephen R. Byrn,George Zografi,Xiaoming (Sean) Chen,2017-07-12 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 discussesvarious 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     **A Dictionary of Chemistry and the Allied Branches of Other Sciences** ,1881     **A dictionary of chemistry and the allied branches of other sciences** Henry Watts (F.C.S.),1881     **Sustainable Industrial Chemistry** Fabrizio Cavani,Gabriele Centi,Siglinda Perathoner,Ferruccio Trifirò,2009-09-22 In recent years the need for sustainable process design and alternative reaction

routes to reduce industry's impact on the environment has gained vital importance. The book begins with a general overview of new trends in designing industrial chemical processes which are environmentally friendly and economically feasible. Specific examples written by experts from industry cover the possibilities of running industrial chemical processes in a sustainable manner and provide an up-to-date insight into the main concerns, e.g. the use of renewable raw materials, the use of alternative energy sources in chemical processes, the design of intrinsically safe processes, microreactor and integrated reaction separation technologies, process intensification, waste reduction, new catalytic routes and/or solvent and process optimization.

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

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