

SUPPORTED REAGENTS AND CATALYSTS IN CHEMISTRY



Edited by B. E. Rodwell,
A. P. Kybett, J. H. Clark and K. Smith

Supported Reagents And Catalysts In Chemistry

James H Clark, Chris N Rhodes



Supported Reagents And Catalysts In Chemistry:

Supported Reagents James H. Clark, Adrian P. Kybett, Duncan J. Macquarrie, 1996-12-17 A unique guide written for the chemist who is planning to use or is considering the possible use of supported reagents an application with great growth potential in the near future Using practical examples of methods of supported reagent analysis this comprehensive reference source also contains useful references detailing the best techniques to apply to particular problems The authors discuss the many choices available in the preparation of supported reagents including loading support method of preparation and activation as well as covering the various analytical techniques to apply to solids They also use numerous examples of supported reagents and their use in organic synthesis emphasizing practical aspects Chemists in catalysis organic synthesis analysis and materials science will obtain enough information to make use of these essentially simple but fascinating materials which in a little over twenty years have matured from academic curiosities to important industrial materials

Supported Reagents and Catalysts in Chemistry B. K. Hodnett, 1998 With contributions from an impressive array of international experts this book will be essential reading to researchers with an interest in this developing area

Preparative Chemistry Using Supported Reagents Pierre Laszlo, 2012-12-02 Preparative Chemistry Using Supported Reagents explains a certain dimension in the methodology of organic reactions This book discusses the physical methods for study that characterizes surfaces and their adsorbates and chemical reactivity at interfaces The polymer supported reagents shape selectivity within zeolites and graphite intercalates are also described Other topics include the metal oxides and their physico chemical properties in catalysis and synthesis photochemistry of adsorbed molecules and magnetic spin resonance methods and applications to oxide surfaces The physico chemical characterization of supported reagents polymer supported oxidations and alumina and alumina supported reagents are likewise deliberated This text also covers the novel aluminophosphate based molecular sieves clay activated isomerization reactions anionic activation and cationic reactions This publication is beneficial to chemists and researchers conducting work on supported reagents New Methodologies and Techniques for a Sustainable Organic Chemistry Alessandro Mordini, Ferenc Faigl, 2008-04-17 Chemical industries have to face the big challenge of finding adequate processes to produce large quantities of new products for which there is a present need decreasing at the same time both the impact on the environment and the risk of disasters These issues have led to the establishment of new concepts of sustainable development as affirmed in the Rio Declaration on Environment and Development in the early 90 s and has been the subject of intensive studies in the last two decades The book addresses this challenge collecting the recent New Methodologies and Techniques for a Sustainable Organic Chemistry It provides a wealth of information in the fields of New efficient and selective catalytic processes Use of non usual media or environmentally benign reagents New selective and efficient synthetic methods New techniques based on alternative energy sources All these topics are covered in 15 chapters written by world renowned experts in these fields who were the lecturers of the NATO ASI

NeMeTOC 2005 Siena Since some of the authors have an industrial background the book helps to answer virtually any questions which may arise during the development of a new environmentally benign organic process Supported Catalysts and Their Applications David C Sherrington,A P Kybett,2007-10-31 The need to improve both the efficiency and environmental acceptability of industrial processes is driving the development of heterogeneous catalysts across the chemical industry including commodity specialty and fine chemicals and in pharmaceuticals and agrochemicals Drawing on international research Supported Catalysts and their Applications discusses aspects of the design synthesis and application of solid supported reagents and catalysts including supported reagents for multi step organic synthesis selectivity in oxidation catalysis mesoporous molecular sieve catalysts and the use of Zeolite Beta in organic reactions In addition the two discrete areas of heterogeneous catalysis inorganic oxide materials and polymer based catalysts that were developing in parallel are now shown to be converging which will be of great benefit to the whole field Providing a snapshot of the state of the art in this fast moving field this book will be welcomed by industrialists and researchers particularly in the agrochemicals and pharmaceuticals industries Introduction to Green Chemistry John Andraos,Albert S. Matlack,2022-03-09 Interest in green chemistry and clean processes has grown so much in recent years that topics such as fluorous biphasic catalysis metal organic frameworks and process intensification which were barely mentioned in the First Edition have become major areas of research In addition government funding has ramped up the development of fuel cells and biofuels This reflects the evolving focus from pollution remediation to pollution prevention Copiously illustrated with more than 800 figures the Third Edition provides an update from the frontiers of the field It features supplementary exercises at the end of each chapter relevant to the chemical examples introduced in each chapter Particular attention is paid to a new concluding chapter on the use of green metrics as an objective tool to demonstrate proof of synthesis plan efficiency and to identify where further improvements can be made through fully worked examples relevant to the chemical industry NEW AND EXPANDED RESEARCH TOPICS Metal organic frameworks Metrics Solid acids for alkylation of isobutene by butanes Carbon molecular sieves Mixed micro and mesoporous solids Organocatalysis Process intensification and gas phase enzymatic reactions Hydrogen storage for fuel cells Reactive distillation Catalysts in action on an atomic scale UPDATED AND EXPANDED CURRENT EVENTS TOPICS Industry resistance to inherently safer chemistry Nuclear power Removal of mercury from vaccines Removal of mercury and lead from primary explosives Biofuels Uses for surplus glycerol New hard materials to reduce wear Electronic waste Smart growth The book covers traditional green chemistry topics including catalysis benign solvents and alternative feedstocks It also discusses relevant but less frequently covered topics with chapters such as Chemistry of Long Wear and Population and the Environment This coverage highlights the importance of chemistry to everyday life and demonstrates the benefits the expanded exploitation of green chemistry can have for society

Solid-supported Combinatorial and Parallel Synthesis of Small-molecular-weight Compound Libraries D. Obrecht,J.M.

Villalgordo,1998-10-16 This book gives an overview of the current state of the art of combinatorial organic synthesis While the main focus is on multicomponent and multigeneration strategies using polymeric supports there is also a Chapter on solution strategies using polymer grafted reagents which allow minimisation of work up procedures Some of the most important strategies and tools are presented and summarised with an explanation of the pivotal role of organic synthesis in the creation of diversity *Introduction to Green Chemistry* Albert Matlack,2010-04-05 The book covers traditional green chemistry topics including catalysis benign solvents and alternative feedstocks It also discusses relevant but less frequently covered topics with chapters such as Chemistry of Longer Wear and Population and the Environment This coverage highlights the importance of chemistry to everyday life and demonstrates the benefits the expanded exploitation of green chemistry can have for society Copiously illustrated with over 800 figures this second edition provides an update from the frontiers of the field *Clean Synthesis Using Porous Inorganic Solid Catalysts and Supported Reagents* James H Clark,Chris N Rhodes,2007-10-31 Waste minimisation has a number of aims which include enhancing the intrinsic selectivity of any given process providing a means of recovering reagents in a form which allows easy regeneration and the replacement of stoichiometric processes with catalytic ones Solids as catalysts or as supports for other reagents offer potential for benefit in all these areas This monograph provides an overview of the properties of the more useful solid catalysts and supported reagents and highlights their most valuable applications in the preparation of organic chemicals in liquid phase reactions Clean Synthesis Using Porous Inorganic Solid Catalysts and Supported Reagents is concerned with the use of solid catalysts in the clean synthesis of organic chemicals The emphasis is on chemical processes of importance to the manufacture preparation of fine and speciality chemicals chemical intermediates and pharmaceutical intermediates especially where catalysis is not currently used or where current catalysts are homogeneous leading to difficult separation procedures and unacceptable levels of waste This book focuses on solid catalysts based on inorganic supports and covers the emerging area of chemically modified mesoporous solid catalysts Polymer Supported Chemical Reactions P. Hodge,1991 Polymer supported chemical reactions may include those using supported substrates reagents and catalysts and this report describes all three types In all cases the most frequent reason for the use of a polymeric support will be the ease of separation of the supported and the low molecular c099 species An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database provides useful references for further reading

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