

Table 3.1. Oxidation Catalysts

No.	Reaction	Source of precipitated metal		Precipitate in liquor	Temperature of precipitation	Exposing agent	Temperature of exposure	Method of preparing catalyst
		NaCl ₂ solution	K ₂ Cr ₂ O ₇ solution					
1	C ₂ H ₅ -B	NaCl ₂ solution		In dist.	high temp.	10% NaOH	80-90°C	1, 1
2	C ₂ H ₅ -B	K ₂ Cr ₂ O ₇ solution		"	"	"	"	"
3	C ₂ H ₅ -C ₃ H ₇	NaCl ₂ solution		"	room temp. to water cooling	"	water cooling	"
4	C ₂ H ₅ -Bz	NaCl ₂ -H ₂ O mixture		"	space-temp. rate of temp.	"	80°C	10
5	C ₂ H ₅ -Bz	NaCl ₂ solution		"	high temp.	H ₂ SO ₄	80-90°C	11
6	C ₂ H ₅ -Bz	"		All gases	space-temp. rate of temp. (cooling)	20% NaOH	water cooling (90°C)	11, 16
7	C ₂ H ₅ -Bz	"		All products	high temp.	"	water cooling	16
8	C ₂ H ₅ -Bz	"		In dist.	"	10% NaOH	room temp. to 40°C	"
9	C ₂ H ₅ -A	K ₂ Cr ₂ O ₇ solution		"	"	"	"	"
10	C ₂ H ₅ -A	NaCl ₂ solution		"	"	20% NaOH, propylene and propene acid	80°C	"
11	C ₂ H ₅ -C ₃ H ₇	"		"	room temp. to water cooling	10% NaOH	water cooling with steam	"
12	C ₂ H ₅ -Bz	NaCl ₂ -H ₂ O mixture		"	space-temp. rate of temp.	10% NaOH	room temp.	11
13	C ₂ H ₅ -A (HCl)	NaCl ₂ solution		"	high temp.	H ₂ SO ₄ + HCl	"	13
14	C ₂ H ₅ -A (HCl)	NaCl ₂ -H ₂ O mixture		"	space-temp. rate of temp.	"	"	13
15	C ₂ H ₅ -A	NaCl ₂ solution		All gases	high temp.	NaOH + NaCl	80°C	16
16	C ₂ H ₅ -B	CaCl ₂ solution		In dist.	"	10% NaOH	80-90°C	16

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P. Cintas



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New Hydrogenating Catalysts Kazuo Hata,1972 Urushibara Catalysts Kazuo Hata,1971 *Principles of Catalyst Development* James T. Richardson,2013-12-21 Successful industrial heterogeneous catalysts fulfill several key requirements in addition to high catalytic activity for the desired reaction with high selectivity where appropriate they also have an acceptable commercial life and are rugged enough for transportation and charging into plant reactors Additional requirements include the need to come online smoothly in a short time and reproducible manufacturing procedures that involve convenient processes at acceptable cost The development of heterogeneous catalysts that meet these often mutually exclusive demands is far from straightforward and in addition much of the actual manufacturing technology is kept secret for commercial reasons thus there is no modern text that deals with the whole of this important subject *Principles of Catalyst Development* which deals comprehensively with the design development and manufacture of practical heterogeneous catalysts is therefore especially valuable in meeting the long standing needs of both industrialists and academics As one who has worked extensively on a variety of catalyst development problems in both industry and academia James T Richardson is well placed to write an authoritative book covering both the theory and the practice of catalyst development Much of the material contained in this book had its origin in a series of widely acclaimed lectures attended mainly by industrial researchers given over many years in the United States and Europe All those in industry who work with catalysts both beginners and those of considerable experience should find this volume an essential guide *Pt Platinum* Gary J.K. Acres,Kurt Swars,2013-06-29 Like most supplement volumes of the platinum group metal series *Platinum Suppl Vol A 1* has been written by an international team of specialists It comprises technological data of all six platinum group metals and their technically relevant alloys and compounds The volume starts with a review on the recovery of the platinum group metals 23 pages the next 42 pages are devoted to processes for separating and refining the PGM in order to obtain metals of high purity The electrodeposition of the PGM and their alloys is treated on 26 pages The by far most extensive section deals with PGM and their alloys and compounds in catalysis After a historical survey and a list of important reviews on PGM catalysis the catalytic properties of the metals are treated in a general way followed by unsupported metals and alloys including preparation of catalysts and their reactions in various industrial processes The role of supported metals and alloys is described in a similar manner This is followed by an extensive description of the preparation and the reactions of PGM compounds with various nonmetals and their catalytically active role in a number of industrial processes 226 pages The last chapter 21 pages is a compilation of data on the medical use of cytostatic platinum compounds Gelnhausen December 1985 Kurt Swars IX Table of Contents Page Technology of the Platinum Group Metals 1 1 Review on the Recovery of the Platinum Group Metals 1 1 Historical Perspective Period of Discovery 1750 to 1820 First Industrial Period 1820 to 1900 Activated Metals in Organic Synthesis P. Cintas,1993-05-18 *Activated Metals in Organic Synthesis* discusses fundamental principles of

the generation of activated highly reactive metals and their applications in organic synthesis Following an introductory chapter on basic forms of metals the chapters in Part 1 are devoted to common strategies utilized for the preparation of active metals These strategies include vaporization and subsequent co condensation of metal atoms in addition to depassivating methods employed commonly in laboratory syntheses Chapters in Part 2 discuss relevant organic transformations in which metal activation plays a crucial role Specific topics covered include metal induced reductive methods pinacolic Reformatsky and Barbier type reactions McMurry ketone olefin coupling and the Bernet Vasella reaction Each chapter is followed by literature citations ranging from specific references to significant reviews Many structural formulas are provided making it easy to follow each synthesis The book will be an important reference for students organic chemists and researchers in all areas of organometallic chemistry **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1972 First multi year cumulation covers six years 1965 70 *New Technical Books* New York Public Library,1973 **Catalytic Hydrogenation in Organic Syntheses** Rylander,2012-12-02 Catalytic Hydrogenation in Organic Syntheses focuses on the process of catalytic hydrogenation in organic synthesis This book gives the reader easy access to catalytic history to show what can be done and how to do it A variety of working generalities and common sense guides are given as aids in selecting catalytic metal catalyst support concentration of metal and catalyst solvent and reaction conditions All manner of hydrogenation catalysts are considered and mechanisms of hydrogenation are presented at a level that is useful to the synthetic organic chemist This volume is comprised of 15 chapters and begins with an overview of catalytic hydrogenation and heterogeneous hydrogenation catalysts along with hydrogenation reactors and reaction conditions The discussion then shifts to the hydrogenation of compounds such as acetylenes olefins aldehydes ketones nitriles oximes acids esters lactones anhydrides and nitro compounds as well as carbocyclic aromatics and heterocyclic compounds The reader is also introduced to reductive alkylation catalytic dehydrohalogenation and hydrogenolysis of small rings A chapter on miscellaneous hydrogenolyses concludes the book This book will be of interest to organic chemists working in the field of catalytic hydrogenation *Fiesers' Reagents for Organic Synthesis, Volume 4* Louis Frederick Fieser,Mary Fieser,1967 This major reference work is arranged like an encyclopedia with each entry providing information about a reagent which has been reported as useful in organic synthesis Most of the reagents are themselves organic but inorganic reagents are also included Suppliers are listed for commercially available reagents otherwise a brief indication of the method of preparation is given along with a literature reference Concise information and literature references are also provided on the application of reagents There are author and subject indexes and a very useful index of reagents by type so that this reference set can serve as a very convenient point of entry into the literature dealing with a general type of reaction whether it be a name reaction e g Baeyer Villiger oxidation a method of introducing a specific functional group e g amination etc *Heterogeneous Catalysis for the Synthetic Chemist* Robert L. Augustine,2020-08-11

This work delineates the effect of different reaction variables on the outcome of heterogeneously catalyzed reactions and explains how to optimize the product yield of specific compounds Metal catalysis simple and complex oxides zeolites and clays are discussed both as catalysts and as potential supports for catalytically active metals **Journal of Research of the National Bureau of Standards** United States. National Bureau of Standards,1977 **Hydrogenation** S. David Jackson,2018-09-24 This book gives a comprehensive overview of modern hydrogenation methods used in organic synthesis In clearly structured chapters the authors cover the catalysts scope and limitations of their application and the techniques for hydrogenation of carbon carbon carbon heteroatom and heteroatom heteroatom multiple bonds *Non-Noble Metal Catalysis* Robertus J. M. Klein Gebbink,Marc-Etienne Moret,2019-04-29 An expert overview of current research applications and economic and environmental advantages The study and development of new homogeneous catalysts based on first row metals Mn Fe Co Ni and Cu has grown significantly due to the economic and environmental advantages that non noble metals present Base metals offer reduced cost greater supply and lower toxicity levels than noble metals enabling greater opportunity for scientific investigation and increased development of practical applications Non Noble Metal Catalysis provides an authoritative survey of the field from fundamental concepts and computational methods to industrial applications and reaction classes Recognized experts in organometallic chemistry and homogeneous catalysis the authors present a comprehensive overview of the conceptual and practical aspects of non noble metal catalysts Examination of topics including non innocent ligands proton coupled electron transfer and multi nuclear complexes provide essential background information while areas such as kinetic lability and lifetimes of intermediates reflect current research and shifting trends in the field This timely book demonstrates the efficacy of base metal catalysts in the pharmaceutical fine chemical and agrochemical industries addressing both environmental and economic concerns Providing essential conceptual and practical exploration this valuable resource Illustrates how unravelling new reactivity patterns can lead to new catalysts and new applications Highlights the multiple advantages of using non noble metals in homogenous catalysis Demonstrates how the availability of non noble metal catalysis reduces costs and leads to immense savings for the chemical industry Reveals how non noble metal catalysis are more sustainable than noble metals such as palladium or platinum Non Noble Metal Catalysis Molecular Approaches and Reactions is an indispensable source of up to date information for catalytic chemists organic chemists industrial chemists organometallic chemists and those seeking to broaden their knowledge of catalytic chemistry **Choice**,1972 *Bulletin of the Chemical Society of Japan* Nihon Kagakkai,1974 **Fiesers' Reagents for Organic Synthesis, Volume 6** Mary Fieser,1977-07-07 The well respected and ever popular Fieser and Fieser series on reagents for organic synthesis provides concise descriptions good structural formulas and selected examples of applications Provides references to new reagents as well as to reagents included in previous volumes Thousands of entries abstract the most important information on commonly used and new reagents including preparation uses sources of supply critical comments references

and more Reagents are considered in alphabetical order by common usage names *The Publishers Weekly*, 1973

Organometallic Chemistry Shay Beck, 2019-09-06 Organometallic Chemistry is the study of chemical compounds containing bonds between carbon and metal. The term *metalloid* is defined deliberately broadly in this context and may include elements such as silicon or boron which are not metallic but are considered to be metalloids. Almost all branches of chemistry and material science now interface with organometallic chemistry. Organometallics find practical uses in stoichiometric and catalytic processes especially processes involving carbon monoxide and alkene derived polymers. Organometallic (OM) chemistry is the study of compounds containing and reactions involving metal-carbon bonds. The metal-carbon bond may be transient or temporary but if one exists during a reaction or in a compound of interest we are squarely in the domain of organometallic chemistry. Despite the denotational importance of the M-C bond, bonds between metals and the other common elements of organic chemistry also appear in OM chemistry: metal-nitrogen, metal-oxygen, metal-halogen, and even metal-hydrogen bonds all play a role. Metals cover a vast swath of the periodic table and include the alkali metals (group 1), alkali earth metals (group 2), transition metals (groups 3-10), the main group metals (groups 11-16) under the staircase and the lanthanides and actinides. The principal idea of this book is to offer a comprehensive coverage of unconventional and thought-provoking topics in organometallic chemistry. It also supplies practical information about reaction mechanisms along with the descriptions of contemporary applications to organic synthesis organized by mechanism and kinetics. It will serve as a valuable reference tool for students and professionals of organic and post-organic chemistry who need to become better acquainted with the subject.

Reduction in Organic Synthesis V. K. Ahluwalia, 2023-07-18 This book discusses some of the reduction agents and processes involved in organic synthesis such as catalytic hydrogenation, homogeneous catalytic hydrogenation, asymmetric catalytic hydrogenations, hydride transfer reagents, dissolving metal reductions, and non-metallic reducing agents. It further covers the topics of photochemical reductions, enzymatic or microbial reduction, reductions of specific types of organic compounds including hydrocarbons, hydrogenolysis, enzymatic or microbial reduction, and some reductions under benign conditions. This book is of immense use to undergraduate and postgraduate students of organic chemistry. It is also a useful reference book for researchers involved in organic synthesis.

Classified Subject Catalog Engineering Societies Library, 1965

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