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Hydrazine and Its Derivatives: Preparation, Properties, Applications. In the past century, hydrazine, an important intermediate in the synthesis of countless chemicals with N-N bonds, has grown into a major industrial commodity with a wide range of uses. It is used as a fuel in rocket propulsion, as a boiler feedwater deoxygenating agent, and in the manufacture of foamed plastics, pharmaceuticals, and

biodegradable pesticides and herbicides, to name just a few uses.

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Hydrazine and Its Derivatives: Preparation, Properties, Applications, Second Edition is the most comprehensive book ever published on hydrazines, and this new edition is indispensable reading material for chemists, toxicologists, environmentalists, propulsion engineers, materials engineers, and satellite builders. Table of contents

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Hydrazine and its derivatives - AGRIS
Hydrazine (diamide), N 2 H 4, a colorless liquid having an ammoniacal odor, is the simplest diamine and unique in its class because of the N—N bond. Hydrazine and its simple methyl and dimethyl derivatives have endothermic heats of formation and high heats of combustion. Hence these compounds are used as rocket fuels.

Hydrazine and Its Derivatives - Schiessl - - Major ...
Hydrazine and Its Derivatives: Preparation, Properties, Applications. Hydrazine and Its Derivatives. : Eckart Walter Schmidt. Wiley, 1984 M02 1 - 1088 pages. 0 Reviews. This is the first complete, major

reference work on the chemistry of hydrazine in over 30 years. It will cover the production of hydrazine, the preparation of organic hydrazine derivatives, the preparation of other alklhydrazines, the physical properties of hydrazines, hydrazine chemistry, and applications.

Hydrazine and its derivatives: preparation, properties ...
Hydrazine is a precursor to several pharmaceuticals and pesticides. Often these applications involve conversion of hydrazine to heterocyclic rings such as pyrazoles and pyridazines. Examples of commercialized bioactive hydrazine derivatives include cefazolin, rizatriptan, anastrozole, fluconazole, metazachlor, metamitron, metribuzin, paclobutrazol, diclobutrazole, propiconazole, hydrazine sulfate, diimide, triadimefon, and dibenzoylhydrazine .

Hydrazine - Wikipedia
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Amazon.fr - Hydrazine and its Derivatives: Preparation ...
Phenylhydrazine was the first hydrazine derivative characterized, reported by Hermann Emil Fischer in 1875. [6] [7] He prepared it by reduction of a phenyl diazonium salt using sulfite salts. Fischer used phenylhydrazine to characterize sugars via formation of hydrazones known as osazones with the sugar aldehyde .

Phenylhydrazine - Wikipedia
From the Back Cover. A new edition of the authoritative source on hydrazine chemistry In the past century, hydrazine, an important intermediate in the synthesis of countless chemicals with N-N bonds, has grown into a major industrial commodity with a wide range of uses. It is used as a fuel in rocket propulsion, as a boiler feedwater deoxygenating agent, and in the manufacture of foamed plastics, pharmaceuticals, and biodegradable pesticides and herbicides, to name just a few uses.

Hydrazine and Its Derivatives: Preparation, Properties ...
Pyrazole and its derivatives are prepared by dehydrogenating 2-pyrazoline or its derivatives by a process in which the reaction is carried out using sulfuric acid in the presence of iodine or of an iodine compound at from 50° to 250° C.

US4996327A - Preparation of pyrazole and its derivatives ...
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The bank has transferred its entire portfolio of derivatives composed mainly of interest rate swaps from London’s LCH to Eurex Clearing. By Annabel Smith French investment bank Bpifrance has moved its entire portfolio of derivatives from LCH to Eurex for clearing in preparation for the UK leaving the European Union on 31 December.

A new edition of the authoritative source on hydrazine chemistry In the past century, hydrazine, an important intermediate in the synthesis of countless chemicals with N-N bonds, has grown into a major industrial commodity with a wide range of uses. It is used as a fuel in rocket propulsion, as a boiler feedwater deoxygenating agent, and in the manufacture of foamed plastics, pharmaceuticals, and biodegradable pesticides and herbicides, to name just a few uses. Since the first edition of Hydrazine and Its Derivatives: Preparation, Properties, Applications was published in 1984, there has been considerable development in this field and many new aspects of hydrazine chemistry and applications have evolved. Offering an overview of hydrazines and their industrial applications, this book also provides a compilation of numerous references to the scientific and technical literature arranged in a systematic manner, allowing the reader to find the necessary information by accessing the pages either from the table of contents or the alphabetical subject index. Some other features of the significantly enlarged Second Edition include: Frequent "see also" cross-references/links to other relevant sections of the bookOver 8,400 references, most of which cover the period from 1980 to 1998 Extremely thorough, encyclopedia-style coverage of topics Information to aid in the design of environmentally benign,

biodegradable pesticides and more energetic rocket propellants Background information on the adverse effects of pesticide residue in food Hydrazine and Its Derivatives: Preparation, Properties, Applications, Second Edition is the most comprehensive book ever published on hydrazines, and this new edition is indispensable reading material for chemists, toxicologists, environmentalists, propulsion engineers, materials engineers, and satellite builders.

Traditionally, interest in the chemistry of hydrazine and its derivatives has been focused on the development of propellants and explosives, but in recent years a wide variety of new applications have emerged in fields such as polymers, pharmaceuticals, water treatment, agriculture and medicine. Inorganic Hydrazine Derivatives: Synthesis, Properties and Applications presents a comprehensive review of the research carried out in this field during the last four decades. Methods for synthesizing inorganic hydrazine derivatives and complexes are systematically presented, together with details of their characterization, spectra, thermal analysis, crystal structure, and applications. Strong emphasis is given to controlling the reactivity of hydrazine derivatives from detonation to deflagration to decomposition. The monograph also highlights current developments and applications of inorganic hydrazine derivatives, including the synthesis of nanostructured materials. Topics covered include: An introduction to hydrazine and its inorganic derivatives Hydrazine salts Metal hydrazines Metal hydrazine carboxylates Hydrazinium metal complexes Applications of inorganic hydrazine derivatives This applications-based handbook is a valuable resource for academics and industry professionals researching and developing hydrazine compounds, high energy materials, nanomaterials, and pharmaceuticals.

This is the first complete, major reference work on the chemistry of hydrazine in over 30 years. It will cover the production of hydrazine, the preparation of organic hydrazine derivatives, the preparation of other alklhydrazines, the physical properties of hydrazines, hydrazine chemistry, and applications. Includes over 150 tables, 98 illustrations, and 4,400 references.

In the case of students, this laboratory preparations manual can be used to find additional experiments to illustrate concepts in synthesis and to augment existing laboratory texts. A name reaction index is also included to direct the reader to the location where specific reactions appear in this manual. The industrial chemist is frequently required to prepare a variety of compounds, and this manual can serve

as a convenient guide to choose a synthetic route. Key Features * Offers detailed directions for the synthesis of various functional groups * Includes up-to-date references to the journal literature and patents (foreign and domestic) * Reviews the chemistry for each functional group with suggestions where additional research is needed * Name reactions are indexed along with the preparations cited

Dehydroacetic acid (DHA) and its derivatives are a rich source of active compounds and have found broad applications in various fields due to their high chemical reactivity and physiological properties. Dehydroacetic Acid and Its Derivatives outlines the use of DHA and its derivatives for the synthesis of pharmacologically active heterocyclic compounds. Beginning with an introduction to the chemistry and reactivity of Dehydroacetic Acid, the book goes on to outline the key ring transformation reactions of DHA. The synthesis of various derivatives is then discussed, before a wide range of metal complexes of DHA are explored in detail. The book then concludes with a review of DHA’s biological importance and its impressive range of pharmacological activities, including anti-cancer, anti-bacterial, anti-fungal and analgesic properties. For those researching the synthesis of bioactive heterocyclic compounds, Dehydroacetic Acid and Its Derivatives is a valuable guide conveying the fundamental knowledge needed to facilitate and enhance the successful synthesis of lead molecules. Gives detailed information of the underlying chemistry of Dehydroacetic acid and its derivatives Highlights different approaches for the synthesis of derivatives, including metal complexes Explores the biological importance of Dehydroacetic Acid

This comprehensive publication on biological actions of hydrazines includes all the available published material and chronological descriptions of the literature. The uniformly applied principle of evaluations separates each hydrazine chemical and divides according to species. This monograph presents data on carcinogenic activity of hydrazines in animals.