

Mono-olefins: Chemistry and technology

Asinger, Friedrich

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Mono Olefins Chemistry And Technology

M.F. Semmelhack



Mono Olefins Chemistry And Technology:

Mono-Olefins F. Asinger, 2013-10-22 *Mono Olefins Chemistry and Technology* is a translation from the German and deals with the study of olefins from low ethylene to hexenes and olefins from the high hexenes to eicosenes. The book describes the gaseous or low boiling olefins and the higher normally liquid olefins which have only a minor role in applications in the chemical industry. The olefins are considered important as they are added in the distillation of off gases in refineries. Although the liquid olefins are used sparingly, these are needed to manufacture lubricants, synthetic detergents, and the higher aliphatic alcohols. The book then explains the three processes used to separate olefin-containing mixtures of gases into fractions by the C number or to convert olefins in the pure state: distillation, absorption, and adsorption. The author then describes the processes in manufacturing carburetor fuel from petroleum and natural gases. Petroleum oil is a mixture of paraffinic, naphthenic, and aromatic hydrocarbons and has no olefins. The text describes the complete process of refining petroleum into different products such as gasoline, kerosene, lubricants, and spotting benzenes. Then the book explains the polymerization of olefins to produce carburetor fuels either by the thermal method or catalytic method. The text notes some research made into double bond isomerization in mono olefins and their possible applications. This book is beneficial to industrial chemists, researchers, technical designers, and engineers whose works are related with oil refinery and fossil fuels.

Mono-Olefins

Friedrich Asinger, 1968 *Mono-olefins ; Chemistry and Technology*. Asinger Friedrich Asinger, 1968 *Hydrocarbon Chemistry* George A. Olah, Árpád Molnár, 2003-09-10 Hydrocarbons and their transformations play major roles in chemistry as raw materials and sources of energy. Diminishing petroleum supplies, regulatory problems, and environmental concerns constantly challenge chemists to rethink and redesign the industrial applications of hydrocarbons. Written by Nobel Prize winner George Olah and hydrocarbon expert Árpád Molnár, the completely revised and expanded Second Edition of *Hydrocarbon Chemistry* provides an unparalleled contemporary assessment of the field, presenting basic concepts, current research, and future applications. *Hydrocarbon Chemistry* begins by discussing the general aspects of hydrocarbons: the separation of hydrocarbons from natural sources and the synthesis from C₁ precursors, with recent developments for possible future applications. Each successive chapter deals with a specific type of hydrocarbon transformation. The Second Edition includes a new section on the chemical reduction of carbon dioxide, focusing on catalytic, ionic, electrocatalytic, photocatalytic, and enzymatic reductions, as well as a new chapter on new catalysts and activation methods, combinatorial chemistry, and environmental chemistry. Other topics covered include major processes of the petrochemical industry such as cracking, reforming, isomerization, and alkylation; Derivation reactions to form carbon-heteroatom bonds; Hydrocarbon oxidations; Metathesis; Oligomerization and polymerization of hydrocarbons. All chapters have been updated by adding sections on recent developments to review new advances and results. Essential reading for practicing scientists in industry, polymer, and catalytic chemists, as well as researchers and graduate students, *Hydrocarbon Chemistry* Second Edition remains the benchmark text.

in its field **The Chemistry and Technology of Petroleum** James G. Speight, 2014-02-26 With demand for petroleum products increasing worldwide there is a tendency for existing refineries to seek new approaches to optimize efficiency and throughput In addition changes in product specifications due to environmental regulations greatly influence the development of petroleum refining technologies These factors underlie the need for t *Fischer-Tropsch Refining* Arno de Klerk, 2012-09-19 The Fischer Tropsch process is gaining recognition again due to the world wide increase in energy needs and decrease in oil availability The increasing interest in utilizing biomass as a potential renewable feedstock in energy generation is further supporting this development The book covers the production and refining of Fischer Tropsch syncrude to fuels and chemicals systematically and comprehensively presenting a wealth of new knowledge and material As such it deals extensively with aspects of engineering chemistry and catalysis This handbook and ready reference adopts a fundamental approach looking at the molecules and their transformation from feed to product Numerous examples illustrate the possibilities and limitations of Fischer Tropsch syncrude as feedstock Of great interest to everyone interested in refining not just Fischer Tropsch specialists From the Contents Fischer Tropsch Facilities and Refineries at a Glance Production of Fischer Tropsch Syncrude Industrial Fischer Tropsch Facilities Synthetic Transportation Fuels Refining Technology Refinery Design Encyclopedic Dictionary of Named Processes in Chemical Technology, Fourth Edition Alan E. Comyns, 2014-02-21 Since the third edition of this reference was completed there have been major changes in the global chemical industry With less emphasis on new processes for making basic chemicals and more emphasis on pollution prevention and waste disposal petrochemical processes are giving way to biochemical processes These changes are reflected in the new processes being developed many of which have their own names In addition niche improvements are still being made in petrochemistry and some of these processes have new names as well Gathering and defining a large portion of special named processes that may fall outside standard chemical texts or be scattered among industry manuals Encyclopedic Dictionary of Named Processes in Chemical Technology Fourth Edition provides a single source reference on an extensive array of named processes It provides concise descriptions of those processes in chemical technology that are known by special names that are not self explanatory While overviews of the chemical technology industry are present in other books most of the names defined within this volume are unique to this compilation This reference includes named processes in current commercial use around the world processes that have been or are being piloted on a substantial scale and even obsolete processes that have been important in the past The length of the dictionary entries reflects their importance and topicality The text includes references that document the origins of the processes and review the latest developments Written by a highly experienced and respected author this user friendly text is presented in a practical dictionary format that is useful for a broad audience including industrial chemists and engineers **Encyclopedic Dictionary of Named Processes in Chemical Technology** Alan E. Comyns, 2007-06-07 Recommended by Choice Current Reviews for Academic Libraries Covering a broad spectrum of

chemical technology from the gigantic Bessemer process for making steel to the microscopic Manassevit process for applying circuits to silicon chips the Encyclopedic Dictionary of Named Processes in Chemical Technology Third Edition **Advances in Fischer-Tropsch Synthesis, Catalysts, and Catalysis** B. H. Davis, Mario L. Occelli, 2009-11-10 Rising oil costs have stimulated significant interest in the Fischer Tropsch synthesis FTS as a method for producing a synthetic petroleum substitute Drawn from the proceedings at a symposium held during the 236th meeting of the American Chemical Society in Philadelphia in August 2008 *Advances in Fischer Tropsch Synthesis Catalysts and Cataly Green Solvents, Volume 4*, 2014-04-11 Nicht nur in den westlichen Industriel ndern ist Umweltschutz heute ein selbstverst ndlicher Bestandteil der gesellschaftlichen Existenz ber die Entwicklung der Gr nen Chemie und Technik informiert das 9 b ndige Handbook of Green Chemistry herausgegeben von Paul Anastas dem Vater der Gr nen Chemie zu dem dieser vorliegende Band ber superkritische L sungsmittel geh rt Ausf hrlich wie nie zuvor behandelt er alle Aspekte dieses aufregenden Forschungsgebiet

Encyclopedia of Chemical Processing and Design John J. McKetta Jr, 1979-01-01 Written by engineers for engineers with over 150 International Editorial Advisory Board members this highly lauded resource provides up to the minute information on the chemical processes methods practices products and standards in the chemical and related industries

Chemical Processing Handbook John J. McKetta Jr, 1993-04-30 Written by more than 40 world renowned authorities in the field this reference presents information on plant design significant chemical reactions and processing operations in industrial use offering shortcut calculation methods wherever possible **Macromolecules** H.G. Elias, 2013-11-11 The second edition of this textbook is identical with its fourth German edi tion and it thus has the same goals precise definition of basic phenomena a broad survey of the whole field integrated representation of chemistry physics and technology and a balanced treatment of facts and comprehen sion The book thus intends to bridge the gap between the often oversimpli fied introductory textbooks and the highly specialized texts and monographs that cover only parts of macromolecular science The text intends to survey the whole field of macromolecular science Its organization results from the following considerations The chemical structure of macromolecular compounds should be inde pendent of the method of synthesis at least in the ideal case Part I is thus concerned with the chemical and physical structure of polymers Properties depend on structure Solution properties are thus discussed in Part II solid state properties in Part III There are other reasons for dis cussing properties before synthesis For example it is difficult to understand equilibrium polymerization without knowledge of solution thermodynamics the gel effect without knowledge of the glass transition temperature etc Part IV treats the principles of macromolecular syntheses and reactions **Ullmann's Fine Chemicals** Wiley-VCH, 2014-01-07 A compilation of 76 articles from the ULLMANN s Encyclopedia of Industrial Chemistry this three volume handbook contains a wealth of information on the production and industrial use of more than 2 000 of the most important fine chemicals from Alcohols to Urea Derivatives Chemical and physical characteristics production processes and production figures main uses toxicology and safety

information are all found here in one single resource Additions to and Substitutions at C-C π -Bonds M.F. Semmelhack, 1992-09-08 Volume 4 focuses on additions and the resulting substitutions at carbon carbon bonds Part 1 includes processes generally considered as simple polar reactions reactive electrophiles and nucleophiles adding to alkenes and alkynes A major topic is Michael type addition to electron deficient bonds featured in the first six chapters In part 2 are collected the four general processes leading to nucleophilic aromatic substitution including radical chain processes and transition metal activation through to complexation Metal activated addition generally by nucleophiles to alkenes and polyenes is presented in part 3 including allylic alkylation catalyzed by palladium The coverage of nonpolar additions in part 4 includes radical additions organometal addition Heck reaction carbene addition and 1,3 dipolar cycloadditions Greener Fischer-Tropsch Processes Peter M. Maitlis, Arno de Klerk, 2013-03-25 Greener Fischer Tropsch Processes How can we use our carbon based resources in the most responsible manner How can we most efficiently transform natural gas coal or biomass into diesel jet fuel or gasoline to drive our machines The Big Questions today are energy related and the Fischer Tropsch process provides industrially tested solutions This book offers a comprehensive and up to date overview of the Fischer Tropsch process from the basic science and engineering to commercial issues It covers industrial economic environmental and fundamental aspects with a specific focus on green concepts such as sustainability process improvement waste reduction and environmental care The result is a practical reference for researchers engineers and financial analysts working in the energy sector who are interested in carbon conversion fuel processing or synthetic fuel technologies It is also an ideal introductory book on the Fischer Tropsch process for graduate courses in chemistry and chemical engineering

Comprehensive Organic Synthesis: Additions to and substitutions at C-C π -Bonds Barry M. Trost, 1991 Volume 4 focuses on additions and the resulting substitutions at carbon carbon bonds Part 1 includes processes generally considered as simple polar reactions reactive electrophiles and nucleophiles adding to alkenes and alkynes A major topic is Michael type addition to electron deficient bonds featured in the first six chapters In part 2 are collected the four general processes leading to nucleophilic aromatic substitution including radical chain processes and transition metal activation through to complexation Metal activated addition generally by nucleophiles to alkenes and polyenes is presented in part 3 including allylic alkylation catalyzed by palladium The coverage of nonpolar additions in part 4 includes radical additions organometal addition Heck reaction carbene addition and 1,3 dipolar cycloadditions **Methanol: The Basic Chemical and Energy Feedstock of the Future** Martin Bertau, Heribert Offermanns, Ludolf Plass, Friedrich Schmidt, Hans-Jürgen Wernicke, 2014-02-18 Methanol The Chemical and Energy Feedstock of the Future offers a visionary yet unbiased view of methanol technology Based on the groundbreaking 1986 publication Methanol by Friedrich Asinger this book includes contributions by more than 40 experts from industry and academia The authors and editors provide a comprehensive exposition of methanol chemistry and technology which is useful for a wide variety of scientists working in chemistry and energy related industries as well as

academic researchers and even decision makers and organisations concerned with the future of chemical and energy feedstocks *Developments in Rubber Technology*—4 K.S. Lee,A. Whelan,2012-12-06 This volume the fourth in a series which began in 1979 covers a greater variety of subjects than any previous single volume The basis of selection has been topical interest hence the tailor making of polymers to develop specific properties methods of improving com pound processability and the use of rubbers in the oil industry are featured alongside a discussion of safety aspects We have again sought the cooperation of the foremost authorities on the chosen subjects and have been delighted at the response which has yielded a list of authors of international repute A w K S L CONTENTS Preface v List of Contributors ix 1 Recent Developments in Synthetic Rubbers by Anionic Polymerization 1 I G HARGIS R A LIVIGNI and S L AGGARWAL 2 Advances in Nitrile Rubber NBR 57 P W MILNER 3 Epoxidized Natural Rubber 87 C S L BAKER and I R GELLING 4 Process Aids and Plasticizers 119 B G CROWTHER 5 A Review of Elastomers Used for Oilfield Sealing Environments 159 W N K REVOLTA and G C SWEET 6 Using Modern Mill Room Equipment 193 H ELLWOOD 7 Quality Requirements and Rubber Mixing 221 P S JOHNSON 8 Health and Safety 253 B G WILLOUGHBY Index 307 vii LIST OF CONTRIBUTORS s L AGGARWAL Gen Corp Research Division 2990 Gilchrist Road Akron Ohio 44305 USA C S L BAKER Malaysian Rubber Producers Research Association Tun Abdul Razak Laboratory Brickendonbury Hertford SG13 8NL UK B G **Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.),National Institute of Standards and Technology (U.S.). Information Resources and Services Division,1994

Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Mono Olefins Chemistry And Technology**

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web sg iron is a type of cast iron that has been treated while molten with an element such as magnesium or cerium to induce the formation of free graphite as nodules or spherulites the followings are the grade requirement to the chemical components and physical properties and also grade comparison chart

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web chemical analysis carbon 3 40 3 85 phosphorous 0 10 max manganese 0 10 0 30 sulphur 0 02 max silicon 2 30 3 10 magnesium 0 07 max applications bs2789 grade 500 7 is suited for applications such as gears pistons valve bodies dies and moulds and for applications that require good noise and vibration damping mechanical properties

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web mar 1 2001 abstract spheroidal graphite sg irons with a variety of matrix structure have been produced the correlation between tensile properties impact toughness hardness and pearlite content is

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web s g cast iron is defined as a high carbon containing iron based alloy in which the graphite is present in compact spherical shapes rather than in the shape of flakes the latter being typical of gray cast iron as nodular or spheroidal graphite cast iron sometimes referred to as ductile iron constitutes a family of cast irons in which the

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web ductile iron also known as ductile cast iron nodular cast iron spheroidal graphite iron spheroidal graphite cast iron 1 and sg iron is a type of graphite rich cast iron discovered in 1943 by keith millis 2 while most varieties of cast iron are weak in tension and brittle ductile iron has much more impact and fatigue resistance due

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web sometimes referenced as a adaptable adamant bs2789 casting 500 7 is a spheroidal graphite adamant that offers bigger strength chafe attrition and hardening capabilities to that of 400 15 or 420 12 s g adamant grades

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web uni 4544 gs500 7 ductile cast iron the sg iron grade gs500 7 in standard uni 4544 is also known as grade 500 7 iso 1083

qt500 7 gb 1348 and 70 50 05 astm a536 this material grade is also equal to ggg50 din 1693 en gjs 500 7 en 1563 fcd 500 jis g5502 500 7 bs 2789 etc

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web the following six grades of spheroidal cast iron for this category are sg 700 2a sg 600 3a sg 500 7a sg 400 15a sg 400 i8a and sg 350 22a 3 2 1 these grades normally apply to castings of thickness between 30 mm and 200 mm and with a unit mass greater than 2 000 kg

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web the normal chemical composition for this grade is as the following c 2 7 3 7 si 0 8 2 9 mn 0 3 0 7 p 0 1 s 0 02 the chemical composition has big difference in different standards all compositions are just for reference

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web sg iron is also called as spheroidal graphite cast iron in usa they are also called as ductile iron there are many different sg iron grades in different countries and standards however most of grades have similar requirements to the mechanical properties especially to tensile strength yield strength and elongation

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web chemical composition mass fraction wt of the sg 500 7 element min max similar the data is being updated mechanical properties of steel grade sg 500 7 physical properties of steel grade sg 500 7 heat treatment of steel grade sg 500 7 heat treated 1491 c 1214 c technological curves of steel grade sg 500 7 no curve

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web en gjs 500 7 is an sg iron grade containing graphite nodules or spheres spheroidal graphite the rounded graphite nodules produces a more ductile cast iron that inhibits the formation of cracks sg iron such as en gjs 500 7 has a greater fatigue and impact resistance compared to grey iron

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web sg iron 500 7 chemical composition carbon 3 28 3 55 3 44 3 47 silicon 1 87 2 09 2 16 2 14 manganese 0 867 0 477 0 476
0 272 copper 0 456 0 553 0 472 0 557 sulphur 0 0866 0 0116 0 0133 0 00846 phosphorus 0 0472 0 0251 0 0230 0 0232
nickel 0 0986 0 0229 0 0162 0 0199 changes are made only in the major elements of