

OUTLINE OF INDUSTRIAL ORGANIC CHEMISTRY

A. RIECHE
K. LITTLEWOOD



Outline Of Industrial Organic Chemistry

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Outline of Industrial Organic Chemistry Alfred Rieche, 1968 **Outline of industrial organic chemistry, tr** Alfred Rieche, **Outline of Industrial Organic Chemistry** Alfred Rieche, 1968 A Hand-book of Industrial Organic Chemistry Adapted for the Use of Manufacturers, Chemists, and All Interested in the Utilization of Organic Materials in the Industrial Arts Samuel Philip Sadtler, 1908 **Outlines of Industrial Chemistry** Frank Hall Thorp, 1905 Industrial Organic Chemistry Samuel Philip Sadtler, Louis Joseph Matos, 1900 Outline of Industrial Organic Chemistry, 3rd Edition Alfred Rieche, 1970-10 Contents A The chemistry of coal and crude oil and the production of chemical raw materials and intermediates I Technology and upgrading of coal II Natural gas and petroleum 1 Composition upgrading purification a Distillation of petroleum conversion and refining methods b Refining and upgrading dewaxing c Technical properties of motor fuels 2 The cracking processes 3 Reforming III Hydrogenation of coal tar and crude oil 1 Hydrogenation in the semi solid phase 2 Hydrogenation in the gas phase Processing of the hydrogenation gases 3 Variations of the hydrogenation processes a Low temperature hydrogenation LTH process b High temperature processes IV Syntheses with carbon monoxide 1 Hydrogenation of carbon monoxide a Hydrocarbon synthesis by the Fischer Tropsch process b Methanol and isobutyl oil synthesis 2 Various syntheses with carbon monoxide V Production and processing of simple paraffins and olefins 1 Technical processing of methane a Synthesis gas from methane b Chlorination of methane c Hydrocarbons containing fluorine d Hydrocyanic acid from methane Andrussov process e Carbon black from methane and other hydrocarbons 2 Technical processing of ethylene a Halogen derivatives of ethylene b Ethylene oxide c Syntheses with ethylene oxide d Hydration of olefins to alcohols 3 Propane and propylene a Propanol and di isopropyl ether b Production of phenol using cumene c Glycerine d Direct syntheses of allyl alcohol and glycerine from propene 4 Butane and butene 5 Higher molecular weight olefins 6 Chlorination of higher paraffins 7 Oxidation of paraffins 8 Nitroparaffins VI Industrial processes for the production of various aliphatic compounds 1 Dimethyl ether 2 Diethyl ether and di isopropyl ether 3 Glycerine 4 Synthetic substitutes for glycerine 5 Aliphatic amines VII Acetylene production and syntheses based on acetylene VIII Aromatic intermediates B The chemical processing of raw materials produced in agriculture and forestry I Wood as a chemical raw material II Sugar starch and glucose III The fermentation industry IV Technology of fats oils fatty acids and soaps V Tanning and the manufacture of leather Tannins C The manufacture of commodities by chemical processing of natural and synthetic raw materials I Synthetic fibres II Raw materials for lacquers plastics elastomers exchange resins silicones III Textile auxiliaries and washing raw materials IV Pharmaceutical products V Protection of plants and stores pesticides VI Synthetic organic dyestuffs VII Explosives gunpowder and blasting agents Subject index Full TOC and Sample available at website **Industrial Organic Chemistry** Samuel P Sadtler, J B Lippincott Company, 2023-07-18 Written by one of the pioneers of industrial chemistry this seminal work provides a comprehensive overview of the field It covers everything from basic chemical principles to the

practical applications of organic chemistry in everyday life With its clear concise explanations and extensive use of real world examples *Industrial Organic Chemistry* is an essential resource for anyone interested in this fascinating field This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

Industrial Organic Chemistry Hans-Jürgen Arpe, 2010-10-18 This bestselling standard now in its fifth completely revised English edition is an excellent source of technological and economic information on the most important precursors and intermediates used in the chemical industry Both a handbook and ready reference this volume has a uniform structure for ease of use with a number of fold out flow charts illustrating complex chemical processes plus summaries and relevant statistical data in the margins The text is rounded off by a comprehensive list of references and a detailed subject index From reviews of previous editions authored by K Weissermel H J Arpe This book is an immensely comprehensive and practical work University chemistry students would benefit from reading this book as it provides a valuable insight into chemical technology which is often lacking in undergraduate chemistry courses The university lecturer can obtain examples of applied organic syntheses and keep up to date with the constant changes in chemical manufacturing It should appeal most to chemists and engineers in the chemical industry who should benefit from the technological scientific and economic interrelationships and their potential developments *Synthesis Journal of Synthetic Organic Chemistry* It would be unkind and misleading to call this book a poor man s Kirk Othmer but it could almost be described as an encyclopedia it is easy to read and one has to admire the authors dedication and endeavor in getting so much into a single volume They have provided a book that is interesting reading as well as being an excellent reference It is a highly recommended book which I hope the authors will find the energy to continue updating on a regular basis *Chemistry in Britain* it should be ready to hand to every chemist or process engineer involved directly or indirectly with industrial organic chemistry It should be in the hand of every higher graduate student especially if chemical technology is not part of the study like in many college universities *Tenside Surfactants Detergents* Whether student or scientist theorist or practitioner everybody interested in industrial organic chemistry will appreciate this work far be it

Industrial Organic Chemistry Klaus Weissermel, Hans-Jürgen Arpe, 2003
 Publisher Description **Annotated List of Books Relating to Industrial Arts and Industrial Education** Columbia University. Teachers College. School of Industrial Arts, 1911 *Catalogue* University of Virginia, 1900 **Organic Chemistry Principles and Industrial Practice** Mark M. Green, Harold A. Wittcoff, 2003-09-19 Nylon plexiglas epoxy resin and Elmer s glue dynamite rubber tires and spandex These are a few among the multitude of industrial products produced

using the principles of organic chemistry principles that are often taught to students without reference to the commercial and practical importance of the subject The marvelous theoretical principles on which organic chemistry is based are therefore often not fully appreciated by students of this subject Organic chemistry can appear dry meaningless and seemingly irrelevant In this textbook designed to be used in conjunction with classic texts of organic chemistry at the undergraduate level or standing alone for more advanced students two experts M M Green and H A Wittcoff bring the principles and the practice together Written for students and also giving much information that could be used to enhance teaching of the subject the book presented in ten concise chapters combines important industrial processes with the principles of organic chemistry The result is a source of otherwise barely accessible information In addition personal anecdotes from the authors vast experience make this a fascinating and indispensable textbook for everyone wishing to enhance the appreciation of this subject I have never come across such an enticing mix of stories of discovery with basic chemistry Roald Hoffmann Cornell University Simply put this book is a gem The chemistry described is rigorous but the warm humorous and conversational writing style makes the book a joy to read Dasan M Thamattoor Colby College This is a unique fascinating book that bridges organic chemistry principles with chemical industrial applications The story telling style make the reading learning experience extremely enjoyable Qiao Sheng Hu College of Staten Island City University of New York

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