

Ethanol

Solar Energy Information Data Bank (U.S.)

Ethanol Fuels Reference Guide ,1982

Alcohol Fuel Richard Freudenberger,2009-11-01 Dwindling petroleum supplies and growing environmental concerns are significantly impacting the cost of petro-fuel and its infrastructure. The search for alternative fuel sources has led to ethanol, a gasoline substitute that is already in the marketplace as Gasohol and E-85. But large-scale production of corn-based ethanol is controversial as it threatens the world's food supply. There are alternatives, however: Brazil uses sugar cane, which is up to six times more productive in energy conversion. After the energy crisis of the 1970s, there was a lot of misinformation about the cost of individual ethanol production. In order to achieve energy independence from gasoline, ethanol lends itself to small-scale production, and especially to cooperative ventures in rural communities, often using "waste" feedstock. Alcohol Fuel is a practical, grassroots book that will give readers all the information they need, covering every aspect of making and using ethanol for fuel, including: *Permitting and planning *Budgeting and setup *Sourcing feedstocks *Finding and building distillation equipment *Storage and safety *Practical applications for converting motor vehicles, farm equipment, and space-heating systems The practical, user-friendly information on basic equipment needs, fermentation recipes, and distillation designs will be of interest to readers looking for information, as well as to those ready to make the switch. Richard Freudenberger was research director of Mother Earth News, where he managed the Alcohol Fuel Program and developed solar and renewable solar and energy projects. He is publisher and technical editor of BackHome magazine and lives in Hendersonville, North Carolina.

Fuel from Farms Solar Energy Information Data Bank (U.S.),1980

Ethanol and U.S. agriculture Sally Kane,1989

Sweet Fuel Jennifer Eaglin,2022 Early sugar and ethanol policy, 1933-1959 -- Sugar, ethanol, and development, 1959-1975 -- Proálcool, 1975-1985 -- Lakes of sacrifice: ethanol and water pollution -- Proálcool, caneworkers, and the guariba strikes of 1984 -- Proálcool reimaged, 1985-2003.

The Science of Ethanol Walter E. Goldstein,2017

Handbook of Cellulosic Ethanol Ananda S. Amarasekara,2013-12-23 Comprehensive coverage on the growing science and technology of producing ethanol from the world's abundant cellulosic biomass The inevitable decline in petroleum reserves and its impact on gasoline prices, combined with climate change concerns, have contributed to current interest in renewable fuels. Bioethanol is the most successful renewable transport fuel—with corn and sugarcane ethanol currently in wide use as blend-in fuels in the United States, Brazil, and a few other countries. However, there are a number of major drawbacks in these first-generation biofuels, such as their effect on food prices, net energy balance, and poor greenhouse gas mitigation. Alternatively, cellulosic ethanol can be produced from abundant lignocellulosic biomass forms such as agricultural or municipal wastes, forest residues, fast growing trees, or grasses grown in marginal lands, and should be producible in substantial amounts to meet growing global energy demand. The Handbook of Cellulosic Ethanol covers all aspects of this new and vital alternative fuel source, providing readers with the background, scientific theory, and recent research progress in producing cellulosic ethanol via different biochemical routes, as well as future directions. The seventeen chapters include information on: Advantages of cellulosic ethanol over first-generation ethanol as a transportation fuel Various biomass feedstocks that can be used to make cellulosic ethanol Details of the aqueous phase or cellulolysis route, pretreatment, enzyme or acid saccharification, fermentation, simultaneous saccharification fermentation, consolidated bioprocessing, genetically modified microorganisms, and yeasts Details of the syngas fermentation or thermochemical route, gasifiers, syngas cleaning, microorganisms for syngas fermentation, and chemical catalysts for syngas-to-ethanol conversion Distillation and dehydration to fuel-grade ethanol Techno-economical aspects and the future of cellulosic ethanol Readership Chemical engineers, chemists, and technicians working on renewable energy and fuels in industry, research institutions, and universities. The Handbook can also be used by students interested in biofuels and renewable energy issues.

Alcohol Fuel Richard Freudenberger,2009 This book covers every practical aspect of making and using ethanol for fuel, including permitting, planning, budgeting, set-up, sourcing feedstocks, finding and building distillation equipment, storage, safety, and practical applications for converting motor vehicles, farm equipment, and space heading systems.

The Economic Impact of the Demand for Ethanol Michael K. Evans,1997 Ethanol production is the third-largest user of corn, behind only feed & export uses. Ethanol production uses approximately 7% of the nation's corn crop which increases farm income & generates economic activity nationwide. This report is the first comprehensive analysis of the macroeconomic impacts of ethanol production. The conclusions in this report verify the cost-effectiveness of the federal ethanol program. In short, the partial excise tax exemption provided for ethanol blends is a non-inflationary incentive that creates jobs, stimulates tremendous economic activity, & reduces our trade imbalance.

Neuropharmacology of Ethanol KOOB,LEWIS,MEYER,PAUL,2013-04-18

Ethanol Angelo Basile,Adolfo Iulianelli,Francesco Dalena,T. Nejat Veziroglu,2018-08-28 Ethanol: Science and Engineering reviews the most significant research findings in both ethanol production and utilization. The book's contents are divided into four parts, beginning with an explanation of the chemical reactions involved during the conversion of ethanol to more complex molecules. Other sections focus on various processes and their potential use, the modelling of various chemical processes, and finally, their economic and environmental impact. The book includes the most advanced production processes, new technologies, applications, and the economic role ethanol plays today. The book will be great for researchers and engineers in both academic and industry. The idea of using ethanol as a fuel is one of the most promising options in the arena of alternative fuels because of it versatile use as an intermediate for producing hydrogen via reforming reactions, direct fuel cells feed and/or its production from biomass, which is also considered a sustainable feedstock. Reviews ethanol production methods from biomass Discusses the potential of ethanol as a viable future fuel Includes hydrogen production methods using ethanol in catalytic reforming processes Outlines the various technologies based on ethanol Includes ethanol powered fuel cells

Ethanol, Its Active Metabolites, and Their Mechanisms of Action: Neurophysiological and Behavioral Effects Elio Acquas,John D. Salamone,Mercè Correa,2018-07-12

Ethanol, the main psychopharmacologically active ingredient of alcoholic drinks, represents a paradigmatic example of a research subject intrinsically able to perpetually self-generate interdisciplinary cutting-edge investigations. This eBook was inspired by the aim of providing an up-to-date characterization of the diverse effects of ethanol, of the possible mechanisms of action on different intracellular systems as well as of the hypothesized actions of ethanol and/or its metabolites on various neurotransmitters and neuromodulators. Indeed, the eBook provides a factual example of an excellent synthesis on the complex relationship between ethanol and its main biologically active metabolites (Chapter 1), on the behavioral and molecular consequences of early exposure to them (Chapter 2), on the recent proposals, advanced by the preclinical research, for new therapeutic approaches to distinct aspects of alcoholism (Chapter 3) and on the most recent and original preclinical evidence of the interactions between ethanol and/or its metabolites and the dopaminergic, adenosinergic and endocannabinoidergic systems (Chapter 4). Overall we believe that this eBook accomplishes its main goals of widening the perspective on this research subject and offering the readership a newer and, simultaneously, up-to-date and comprehensive scenery on ethanol's and ethanol's active metabolites neurophysiological and behavioral effects.

Ethanol Co-Product Use in U. S. Cattle Feeding Kenneth H. Mathews, 2010 The byproducts of making ethanol, sweeteners, syrups, and oils were considered less valuable than the primary products. But the increased livestock-feed market for such byproducts has switched that perception to one of the ethanol industry making grain-based &co-products (CP)& that have market value separate from the primary products. CP such as dried distiller's grains, corn gluten feed, corn gluten meal, corn oil, and brewer's grains have become economically viable components, along with traditional ingred., in feed rations. The CP have limitations, such as variable moisture content, product avail., nutrient excesses or deficiencies, and nutrient variability. These limitations affect how they must be handled and stored and how much they cost. Illus.

Ethanol and Other New Fuels Tea Benduhn, 2008-07-01 Introduces ethanol, biodiesel, and hydrogen fuel cells as sources of energy, places them in context with other power resources, explains how they work, and considers the advantages and disadvantages of their possible future use.

Ethanol Roy I. Henry, Billy P. Woods, 2012 The fermentation of sugar into ethanol is one of the earliest biotechnologies employed by humanity. In modern times, ethanol intended for industrial use is also produced from ethylene. Ethanol has widespread use as a solvent of substances intended for human contact or consumption, including scents, flavourings, colourings, medicines, and as a biofuel. This book discusses ethanol production, cellular mechanisms and its health impacts. Topics include the production of ethanol from synthesis gas in flowed vapour-solid catalytic systems; producing hydrogen from ethanol reforming processes through inorganic membrane reactors; the potential role of epigenetic factors in the aetiology of foetal alcohol spectrum disorder; ethanol investment decisions; cellulosic ethanol production through bioconversion of lignocellulosic biomass; and the effects of withdrawal from ethanol use on emotional learning.

Biochemical Pharmacology of Ethanol Edward Majchrowicz, 2013-11-11 A number of excellent symposia, reviews and monographs on the biology of ethanol have been published during the last decade. Al though it may appear that another such publication may be superflu ous, the subject of alcohol abuse is still open for further explora tion and the field of the biochemical pharmacology of ethanol is in its infancy. This is evidenced, for example, by the unavailability of any drugs that are designed specifically for the treatment of alcohol intoxication or alcohol addiction. The impetus for this publication was generated by a spontane ous enthusiasm following the symposium on BiochemicaZ Ph~acoZogy of EthanoZ that was organized at the annual meeting of the American Chemical Society, Division of Biological Chemistry in August 1973 in Chicago. It was the first symposium on such a topic ever in cluded in the program of that large society of American chemists. The original aim of the symposium was to acquaint the members of the society with some basic facts about the biological chemistry of ethanol. The symposium included seven papers and covered a rela tively narrow range of ethanol biochemistry. In view of the enthu siasm shown at the Chemical Society meeting, the panelists decided to publish the program and to amplify it by inclusion of additional topics which have remained relatively unexplored in earlier publica tions. In addition, reviews have been included which discuss old topics from a new perspective.

2008 Energy Balance for the Corn-Ethanol Industry H. Shapouri, 2011 This is a print on demand edition of a hard to find publication. The Agricultural Resource Management Survey of corn growers for the year 2005 and the 2008 survey of dry mill ethanol plants are used to estimate the net energy balance of corn ethanol. This report measures all conventional fossil fuel energy used in the production of 1 gallon of corn ethanol. The ratio is about 2.3 BTU of ethanol for 1 BTU of energy inputs, when a portion of total energy input is allocated to byproduct, and fossil fuel is used for processing energy. The ratio is somewhat higher for some firms that are partially substituting biomass energy in processing energy. Charts and tables.

Alcohol Fuels Oth Mullis, 1993-12 Presents information on the ethanol industry's capability to expand its production capacity, the effects that expanded production could have on the agricultural sector and consumer food prices, and how the increased production could affect certain aspects of the federal budget. Charts and tables.

Neuroactive metabolites of ethanol: a behavioral and neurochemical synopsis Merce Correa, John D Salamone, Elio Acquas, 2015-02-11 Ethanol is a very elusive drug, which has mechanisms of action that are diverse and relatively non-selective. Moreover, ethanol has been demonstrated to be a biologically active substance by itself, but also a pro-drug of the neuroactive metabolites, acetaldehyde and acetate. Acetaldehyde has traditionally been known as a toxic substance with several effects on multiple systems. However, in the last few decades evidence has accumulated to reveal the specific and, in some instances, distinct neural actions of acetaldehyde and acetate that are in part responsible for some of the observed psychoactive effects of ethanol. The present issue will address these challenges to provide an up-to-date synopsis of the behavioral and neurophysiological impact of the two direct metabolites of ethanol, acetaldehyde and acetate. In doing so, this issue will present human and rodent evidence on their behavioral and neurophysiological impact, either when administered alone as drugs, or when metabolically-derived from their parent compound. Emphasis will be placed to stress the importance of the different enzymatic systems that intervene to produce these metabolites, either peripherally and/or directly in the brain. Similarly, this Research Topic will be aimed at addressing some of the possible mechanisms of action of acetaldehyde and acetate in different brain areas and in different intracellular systems. Furthermore, the issue will lay out some of the suggested mechanisms of action of ethanol and of its metabolites

by which they form adducts with other molecules and neurotransmitters such as dopamine and opioids (which lead to salsolinol and tetrahydropapaveroline, respectively), and their impact on the synthesis and actions of neuromodulators such as adenosine and the cannabinoid system.

Sustainable Ethanol Jeffrey Goettemoeller,Adrian Goettemoeller,2007 In this resource, the authors uncover the benefits and limitations of North America's fuel ethanol industry.

Discover tales of courage and bravery in Crafted by is empowering ebook, Stories of Fearlessness: **Ethanol** . In a downloadable PDF format (*), this collection inspires and motivates. Download now to witness the indomitable spirit of those who dared to be brave.

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