Production of industrial alcohol is an age old practice. But with time, the usage areas as well as production techniques have gone through a major transformation. Industrial alcohol is distilled ethyl alcohol (C2H5OH), normally of high proof, produced and sold for other than beverage purposes. It is usually distributed in the form of pure ethyl alcohol, completely denatured alcohol, especially denatured alcohol and proprietary solvent blends. Ethyl Alcohol is the common name for the hydroxyl derivative of the hydrocarbon ethane. Industrial alcohol is distilled ethyl alcohol normally of high proof, produced and sold for other than beverage purposes. Industrial alcohol finds its applications in many chemical industries, pharmaceutical industries, Ink Industries and various allied applications. Much of this alcohol is obtained synthetically from ethylene. However, its production from microbial fermentation using variety of cheap sugary substrates is still commercially important. The various substrates used for ethanol production are sugar crops such as sugarcane, sugar beet, sorghum, etc. provide a good substrate. Bye product of these crop processing, e.g., molasses, sweet sorghum syrup, etc. are the most common substrates. Cereals like maize, wheat, rice etc are also used for ethanol production. Distillation of industrial alcohol, which is normally not used for consumption, can be made in a two step process. The process of distillation is one with a slow dynamics making it essential to have a carefully planned and designed control system. Ethyl alcohol or ethanol ranks second only to water as the most widely used solvent in chemical industry and as these industries have expanded, so the demand for industrial alcohol has increased.

Some of the fundamentals of the book are base case production of alcohol, survey and natural alcohols manufacture, alcohol from wheat straw, alcohol from sacchariferous feed stocks, conventional process used in Indian distilleries, fermentation, distillation, continuous rectification and reflux ratio, alcohol recovery, quality of alcohol, steam economy, fuel oil separation, trihydric and polyhydric alcohols, coal gasification, methanol synthesis, coal gasification and raw gas purification, synthesis gas preparation, methanol synthesis and purification, badger conceptual design

This handbook on Industrial alcohol technology provides complete details on process and the technology used in the production of ethanol from various sugar crops and cereals and also briefs the different types of monohydric, trihydric and polyhydric alcohols. This handbook will be very helpful to its readers who are just beginners in this field and will also find useful for upcoming entrepreneurs, existing industries, technical institution, etc.

Contents

1. Alcohol from Corn
Base Case Production of Alcohol, Overall Material and Energy Flows, Grain Motor Fuel Alcohol Plant, Excursions on Feedstock Material, Sensitivity to Financial Parameters, Depreciation Schedule, Purchase
Price of Corn, DOG By-product, Leveraged Capital, Investment Tax Credit, Background and Job Scope,
Design Basis, Base Case, Excursions, Plant Capacity, Nature of Raw Material For Process, Corn Stover
(Biomass) as Primary Boiler Fuel, Corn Processing By-products, Production of Motor Fuel Grade Alcohol,
Base Case, Process Description, Receiving, Storage and Milling, Mash Cooking and Saccharification, Fusel
Amylase Production, Fermentation (Batch), Distillation, Fusel Oil and Heads Removal, Drying of Stillage Residue, Alcohol Storage and Shipping, Ammonium Sulfate Storage and Shipping, Dry Grains Storage and Shipping, Coal Fired Boiler, Water Supply, Waste Water Treatment, Flue Gas Scrubber,

2. ALCOHOLS, HIGHER ALIPHATIC


3. ALCOHOL FROM WHEAT STRAW

Introduction, Summary and Conclusions, Process Description, Process Discussion, Cost Estimates, Batch Process Technology in Indian Distilleries, Definitions, Molasses, Total Reducing Sugars, Unfermentable Sugars, Fermentable Sugars, Brix, Polarisation (Pol.), Purity, Alcohol, Spirit's, Wort, Pitch or Bub, Wash, Sludge, Sediment, Reflux, Spent Wash, Proof Spirit, Calculation of Efficiency Data, Alcohol Production Processes, Synthetic Process, Alcohol from Starchy Materials (Grain Spirit), Scenario, Potential of Grain as Raw Material, Process Description, Raw Material Preparation, Liquefaction, Yeast Cultivation & Prefermentation, Saccharification & Fermentation, Alcohol from Sacchariferous Feed Stocks, Conventional Process Used in Indian Distilleries, Fermentation, Distillation, Continuous Rectification and Reflux Ratio, Alcohol Recovery, Quality of Alcohol, Steam Economy, Fusel Oil Separation, Absolute Alcohol

4. MonoHydric Alcohols

Lower Saturated Acyclic (Aliphatic) Alcohols, Methyl Alcohol, Physical Properties, Chemical Properties, Ethyl Alcohol, Nonazcotropes, n-Propyl Alcohol, Isopropyl Alcohol, 1-Butanol, Isobutyl Alcohol, sec-Butyl Alcohol, Physical Properties, Chemical Properties, tert-Butyl Alcohol, Amyl Alcohols, C5H11OH, n-Amyl Alcohol, sec-Amyl Alcohol, 3-Pentanol, Active Amyl Alcohol, Isoamy1 Alcohol, tert-Amyl Alcohol, Higher Saturated

5. Trihydric and Polyhydric Alcohols

Trihydric Aliphatic Alcohols (Glycerols), General, Preparation, Properties, Uses, Glycerol, Occurrence, Production, Physical Properties, Grades of glycricin, Specific Gravity, Epoxy Compounds, Esters, 1,2,4-Butanetriol, Pentaglycerol, Hexaglycerol, 1,2,6-Hexanetriol, Higher Polyhydric Aliphatic Alcohols, Chemical Properties, Toxicological Properties, Uses, General, Physical Properties, Tetrahydric Alcohols (Tetritols), CH2OH(CHOH)2 CH2OH, Erythritol, d-and l-Threitol, dl-Threitol, Penterythritol, Pentahydric Alcohols (Pentitols), Ribitol, Xylitol, Preparation, d-Arabitol, l-Arabitol, dl-Arabitol, Hexahydric Alcohols (Hexitols), Allitol, Dulcitol, Sorbitol, Chemical Properties, Toxicity and Uses, l-Glucitol, d-Mannitol, l-Mannitol, Physical Properties, Chemical Properties, Toxicity and Uses, dl-Mannitol, d-Iditol, l-Iditol, d-Talitol, l-Talitol, d-Talitol, Inositol, Hepahydric Alcohols (Heptitols), Perseitol, Volemitol, Glycero-gulo-Heptitol and D-glycero-D-ido-Heptitol, Octahydric Alcohols (Octitols), Polvinylic Alcohol

6. METHANOL FROM COAL


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