

Handbook On Chemical Industries (Alcohol Based)

Author: H. Panda

Format: Paperback

ISBN: 8178330679

Code: NI7

Pages: 374

Price: Rs. 750.00 US\$ 19.95

Publisher: Asia Pacific Business Press Inc.

Usually ships within 3 days

The chemical industry comprises the companies that produce industrial chemicals. Central to the modern world economy, it converts raw materials (oil, natural gas, air, water, metals, and minerals) into several different products. The Indian chemical industry is among the established traditional sectors of the country, playing an integral role in the national economic development. This sector, forming part of the basic goods industry, is a critical input for industrial and agricultural development. The fundamental nature and diversity of the industry is best understood from the fact that the industry itself is the largest consumer of its products, accounting for around 33% of total consumption. Alcohol is a very valuable material which has variety of uses such as for production of chemicals, as a source of energy and fuel etc. an alcohol is an organic compound in which the hydroxyl functional group (OH) is bound to a carbon atom. In particular, this carbon centre should be saturated, having single bonds to three other atoms. Some of the common examples of alcohol and its derivatives are acetaldehyde, acetic acid, chloroacetic acid, acetic anhydride, dimethyl acetamide, butyl alcohols, ethyl acetate, butyl acetate, cellulose acetate, ethyl ether and many more. Ethanol can be used in the pharmaceutical, cosmetics, solvents, food, and chemical industries with a majority of industrial ethanol used as a solvent in the manufacture of pharmaceuticals, paints, and lacquers. It is also used as a carrier in medicines. Some food extracts and flavourings can contain ethanol. It is also used in the personal care industry in products such as hairspray, mouthwash and cologne and in hand sanitizers and medical wipes. Some of the fundamentals of the book are manufacture of ethanol, absolute/anhydrous alcohol, barium acetate, calcium acetate, chromium acetate, cobalt acetate, copper acetate, lead acetate, vinyl chloride, vinyl acetate monomer, poly vinyl acetate, film-forming latexes, non film forming latexes, styrene based resins, styrene polyester resins, styrenated oils and alkyds, ion exchange resins, ethylene glycol monoethyl ether (cello solve) etc.

The book covers manufacturing details of various alcohol based chemicals. We hope that it will be very resourceful for new entrepreneurs, researchers, general information seekers and libraries as a reference book.

Contents

Manufacture of Ethanol

Physical Properties

Chemical Properties

Manufacture

Uses

Manufacturers

Absolut /Anhydrous Alcohol
Pervaporation Process

By Products of Alcohol
Carbon Dioxide
Fusel Oil
Recovered yeast

Acetaldehyde
Physical Properties
Chemical Reactions
Manufacture
Specifications, Analytical, and Test Methods
Health and Safety Factors

Acetic Acid
Physical and Chemical Properties
Manufacture
Health and Safety Factors

Chloroacetic Acid
Dichloroacetic Acid
Trichloroacetic Acid
Bromoacetic Acid
Dibromoacetic Acid
Tribromoacetic Acid
Iodoacetic Acid
Diiodoacetic Acid
Triiodoacetic Acid
Mixed Halides of Acetic Acid

Acetic Anhydride
Physical and Chemical Properties
Manufacture
Analysis and Specifications
Health and Safety Factors

Acetyl Chloride
Physical and Chemical Properties
Preparation and Manufacture
Health and Safety Factors, Toxicology
Uses

Acetamide
Physical Properties
Chemical Properties
Preparation and Manufacture
Health and Safety Factors (Toxicology)
Uses

Dimethyl acetamide
Physical Properties
Chemical Properties

Manufacturing Processes
Analytical Methods
Health and Safety Factors
Uses

Acrylic Acid and Derivatives
Physical Properties
Reactions
Unsaturated Group Reactions
Manufacture
Specialty Acrylic Esters
Analytical Methods
Health and Safety Factors

Butadiene
Properties
Reactions
Manufacture
Specification and Standards

Butyl Alcohols
Physical and Chemical Properties
Analysis
Manufacture
Toxicology
Uses

Butyraldehyde
Physical Properties
Reactions
Manufacture
Analysis
Health and Safety Factors
Storage and Handling
Uses

Sodium Carboxymethyl Cellulose
Properties
Manufacture
Economic Aspects
Health and Safety Factors
Uses

Hydroxyethyl Cellulose
Properties
Manufacture
Economic Aspects
Health and Safety Factors
Uses

Pentaerythritol
Manufacturing Process
Uses

Pyridine/Picoline
Manufacturing Process
Alpha and Gamma Picoline manufacture
Uses

Ethyl Acetate
Manufacturing Process
Uses
Manufacturers

Other Ethyl Esters
Ethyl Butyrate
Ethyl Cinnamate
Ethyl Formate
Ethyl Heptotatate
Ethyl Oleate
Ethyl Palmitate
Ethyl Propionate
Ethyl Salicylate
Diethyl Maleate
Diethyl Phthalate
Diethyl Oxalate
Ethyl Silicate
Manufacturing Process
Uses

Butyl Acetates
Manufacturing Process
Uses
Manufacturers

Other Butyl Esters

Other Acetate Esters
Iso-amyl Acetate
Benzyl Acetate
Cinnamyl Acetate
Citronellyl Acetate
n-Octyl Acetate
2-Ethyl Hexyl Acetate
Geranyl Acetate
Neryl Acetate
Iso Bornyl Acetate
Iso-Butyl Acetate
Para - Cresyl Acetate
Nonyl Acetate
Iso - Propyl Acetate
Phenylethyl Acetate
Terpinyl Acetate
Manufacturers

Cellulose Acetate

Manufacturing Process
Uses

Inorganic Acetates
Aluminium Acetate
Ammonium Acetate
Barium Acetate
Calcium Acetate
Chromium Acetate
Cobalt Acetate
Copper Acetate
Lead Acetate
Magnesium Acetate
Mercuric Acetate
Nickel Acetate
Potassium Acetate
Sodium Acetate
Zinc Acetate

Ethyl Acrylate
Manufacturing Process
Uses
n-Butyl Acrylate

Ethyl Amines
Manufacturing Process
Uses

Diethyl Sulphate
Manufacturing Process
Uses

Acetone
Manufacturing Process
Uses
Manufacturers

Chloral
Manufacturing Process
Uses
DDT
Manufacturing Process
Uses

Ethylene
Manufacturing Process
Uses

Polyethylene
Manufacturing Process
Uses

Ethylene Oxide

Physical Properties
Manufacture
Uses
Derivatives

Polyethylene Oxide
Glycol Ethers
Ethylene Dichloride
Manufacturing Process
Uses
Manufacturer

Ethyl Ether
Manufacture
Uses

Other Ethers
Vinyl Chloride
Manufacturing Process
Polyvinyl Chloride
Manufacturing Process
Building and Construction
Floor Coverings
Pipe
Electrical Insulation
Packaging
Coatings
Fibers
Foams

Vinyl Acetate Monomer
Manufacturing Process
Uses
Manufacturers

Poly Vinyl Acetate
Manufacturing Process
Uses
Manufacturers
Uses
Manufacturers

Styrene
Properties
Styrene
Manufacture
Specifications and Analysis
Health and Safety Factors
Uses
Styrene Homologs and Derivatives

Polystyrene
Manufacturing Process

Uses
Manufacturers

Styrene-Based Plastics
Materials
Physical Properties of Polystyrene
Film-Forming Latexes
Non-Film-Forming Latexes

Styrene-Based Resins
Styrene-Polyester Resins
Styrenated oils and Alkyds

Ion-Exchange Resins
Ethylene Glycol Monoethyl Ether (Cellosolve)
Manufacturing Process
Uses
Manufacturers

List of Distilleries in India.
(As per All India Distillers Association)
Importers of Inorganic &
Organic Chemicals in Brazil
Principal Dealers, Mfrs (Exporters & Importers) of
Petrochemical Products, Dye Stuffs, Ind-Paints,
Intermediates & Allied Products in Venezuela
List of Acetic Acid Manufacturers
Complete List of Manufacturing Units
(Respective Products are mentioned below the addresses)

List of Consultants
Research Institutes
(Devoted to Alcochemicals)
Industry Associations
Plant & Machinery Suppliers
Raw Material Supplies
Bibliography

About NIIR

NIIR PROJECT CONSULTANCY SERVICES (NPCS) is a reliable name in the industrial world for offering integrated technical consultancy services. NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our various services are: Detailed Project Report, Business Plan for Manufacturing Plant, Start-up Ideas, Business Ideas for Entrepreneurs, Start up Business Opportunities, entrepreneurship projects, Successful Business Plan, Industry Trends, Market Research, Manufacturing Process, Machinery, Raw Materials, project report, Cost and Revenue, Pre-feasibility study for Profitable Manufacturing Business, Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Business Opportunities, Investment Opportunities for Most Profitable Business in India, Manufacturing Business Ideas, Preparation of Project Profile, Pre-Investment and Pre-Feasibility Study, Market Research Study,

Preparation of Techno-Economic Feasibility Report, Identification and Section of Plant, Process, Equipment, General Guidance, Startup Help, Technical and Commercial Counseling for setting up new industrial project and Most Profitable Small Scale Business.

NPCS also publishes various process technology, technical, reference, self employment and startup books, directory, business and industry database, bankable detailed project report, market research report on various industries, small scale industry and profit making business. Besides being used by manufacturers, industrialists and entrepreneurs, our publications are also used by professionals including project engineers, information services bureau, consultants and project consultancy firms as one of the input in their research.

Our Detailed Project report aims at providing all the critical data required by any entrepreneur vying to venture into Project. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.

NIIR PROJECT CONSULTANCY SERVICES , 106-E, Kamla Nagar, New Delhi-110007, India. **Email:** npcs.india@gmail.com **Website:** NIIR.org

Sat, 27 Apr 2024 06:39:29 +0530