

Handbook On Chemical Industries (Alcohol Based)

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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.

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 Heptotote
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

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