

# Handbook On Chemical Industries (Alcohol Based)

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## About the Book

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 Heptotate  
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

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