The Complete Technology Book on Chemical Industries

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In modern age chemical industries have permeated most extensively in comparison with other industries and are progressing at a very rapid pace. Chemical Industry in India is one of the fastest growing industries under the Indian economy. The chemical industry comprises the companies that produce industrial chemicals. Central to the modern world economy, it converts raw materials into more than 70,000 different products. Chemicals have contributed in various sectors like food industry, fertilizers, perfumery, fragrance and flavour etc. Chemicals are used to make a wide variety of consumer goods, as well as thousands inputs to agriculture, manufacturing, construction, and service industries. There are numerous chemicals produced in chemical industry for example chloroform, caffeine, fertilizers, dyes, drug intermediates, herbicide, inorganic salts, copper sulphate, acetaldehyde etc. The chemical industry itself consumes 26 percent of its own output. The Chemical Industry in India is based on the idea of diversification. For example inorganic chemicals is the sector where the growth rate is near about 9% and the chemicals produced in this sector are mainly used in alkalis, fertilizers, etc. Depending on the product categories the chemical industry is divided in many other sectors like drugs and pharmaceuticals, fertilizers, fine chemicals like dyes and paints etc. The chemical industry in India which generates almost 13% of total national export is growing annually at a growth rate anywhere between 10% and 12%.

This book majorly deals with the molecular formula, raw materials, properties, laboratory testing, manufacturing process explained with flow diagrams and uses of the chemicals. The major contents of the book are inorganic salts, inorganic chemicals, industrial gas, fertilizers, alum, caffeine, ceramic chemicals etc. This book covers the production of more than 100 chemicals for example acetanilide, methylamine, butylamine, linalol, phosphorous, salicylic acid etc.

This book should be of great value to young chemical engineers and chemists who are just entering the field but those already practicing will find much of interest and use for broadening of their insight in to fields in which they are only marginally informed. It is hoped that this book will aid to young engineers, chemical, civil, mechanical and electrical as well as chemists, in understanding the value of chemical, the type of problems met in their production and method for solving these problems.

Contents

 2-Chloro-6(Trichloromethyl)-Pyridine Introduction Classification Uses and Applications **Industrial Prospect**

Formulations

Process of Manufacture

Laboratory Testing

Determination of Pyridine Content

Apparatus

Test Substances

Procedure

Chart Speed

Calculation

2. Alkylamines

Methylamine

Ethylamine

Propylamine

Isopropylamine

Butylamine

Isobutylamine

Amylamine

Monoethanolamine

Diethanolamines

Triethanolamine

Manufacturing Process

Reaction

Uses

Grades

Toxicity

Polypropylene

Manufacturing Process

Hercules Polypropylene Process

Uses

Grades

Polyethylene

Manufacturing Process

From Ethylene by Low-Pressure Polymerization

(Phillips Process)

Uses

Grades

Toxicity

Vinyl Acetate

Manufacturing Process

3. Alum

Introduction

Raw Material Requirements

Reactions

Process of Manufacture

Uses

Plant & Machinery

Market Potential

Plant Economics

Analytical Testing of Ammonium Alum

EDTA Method

Reagents

Procedure

Calculation

Gravimetric Method

Laboratory Testing of Aluminium Sulphate

Introduction

Procedure

4. Bleaching Powder

Introduction

Properties

Properties

Uses

Process of Manufacture

Laboratory Testing

Glacial Acetic Acid

Calculation

5. Caffeine (C8H10N4O2.H2O)

From Tea Waste

Raw Material Requirements

Process

Properties

Purity

Reagents and Apparatus

Standardization

Procedure A: (Potentiometric)

6. Ceramic Chemicals

Boric Acid

Properties

Manufacturing Process

Reaction

Flow Diagram

Uses

Grades

Toxicity

7. Chemical and Additive for Food Industry

Citric Acid

Properties

Lactic Acid

Molecular Formula

Manufacturing Process

Sodium Bicarbonate

Manufacturing Process

8. Chloroform (Trichloromethane) CHCl3

Chloroform

Molecular Formula

Properties

From Methane by Chlorination

Material Requirements (Theoretical)

Process

From Acetone and Bleaching Powder

Reaction

Material Requirements

Process

Grades

Purity

Determination of Relative Density

Apparatus

Procedure

Calculation

Determination of Distillation Yield

Apparatus

Assembly of the Apparatus

Procedure

9. Chloram Phenicol (p)(-)Threo-1-(Para-nitrophenyl)-

2-dichloroacetamide-1, 3-propanediol

Reaction

Raw Material Requirements

Manufacturing Process

Properties

Grades

Purity

10. Coumarin (C9H6O2)

From Salicylaldehyde

Reaction

Properties

Grades

Use & Application

Process of Manufacture

Laboratory Testing

Apparatus

Coumarin

Procedure

Reaction with Iodine Solution

11. Construction Material

Lime (Calcium Oxide)

Properties

Manufacturing Process

Hydrated Lime

Chemical Lime

Reaction

Flow Diagram

Uses

Grades

Toxicity

12. Corrosion Inhibitor

Sodium Dichromate

Manufacturing Process

From Chromite Ore

Reaction

Flow Diagram

Uses

Grades

Toxicity

13. Drug Intermediates & Pharmaceuticals

Acetanilide

Molecular Formula

Properties

Manufacturing Process

Reaction

Uses

Specification of Commercial Graders

Toxicity

14. Dry Cleaning Solvent

Perchloroethylene

Molecular Formula

Properties

Manufacturing Process

Reaction

Flow Diagram

Uses

Grades

Toxicity

15. Dyes and Intermediates

Aceto-Acetanilide

Properties

Manufacturing Process

Reaction

Flow Diagram

Uses

Grades

Toxicity

Anthraquinone

Properties

Manufacturing Process

From Phthalic Anhydride and Benzene

Raw Material requirements

b-Naphthol

Properties

Manufacturing Process

From Naphthalene

Raw material requirements

Bon Acid (3-Hydroxy-2 Naphthoic Acid)

Properties

Manufacturing Process

Raw material requirements

Reaction

Flow Diagram

Uses

Grade

G-Acid (2-Naphthol-6, 8 Disulphonic Acid)

Properties (Sodium Salt)

Manufacturing Process

Reaction

Uses

H-Acid

Properties

Manufacturing Process

Reaction

Flow Diagram

Uses

Naphthalene

Manufacturing Process

Process

Naphthol Asg

Manufacturing Process

Raw material requirements

Reaction

Flow Diagram

Uses

Grades

Rhodamine B (Basic Dye)

Properties

Manufacturing Process

From Phthalic Anhydride

Raw material requirements

Reaction

Flow Diagram

Uses

Grades

Toxicity

16. Ester Gum

Field of Applications

Classification

Manufacture

Laboratory Testing

Reagents

Driers

Procedure

Determination of Gel Time

General

Reagents

Procedure

17. Faty Acids

Properties

Manufacturing Process

Raw Material Requirement

Reaction

Flow Diagram

Uses

Grades

Toxicity

18. Fertilizers

Introduction

Nutrition requirements of crops

Overview of the fertilizer industry

Nitrogen Fertilizers

Miscellaneous low-volume nitrogen fertilizers

Nitrogen fertilizers from synthetic ammonia

Phosphate Fertilizers

Natural Organic Phosphate Fertilizers

Fertilizers from Mineral Phosphates

Potassium Salts

Potassium Minerals

Potassium-Magnesium Minerals

Potassium Sulfate

Potassium Nitrate

Potassium Phosphates

Mixed Fertililzers

Nongranular Mixtures

Compound Granulars

Bulk Blends

Fluid Mixtures

19. Gaur Gum (Galactomannan Gum)

From Guar Seeds (Dry Process)

Raw Material Requirements

Process

Other Processes

Properties

Grades

Containers

Purity

Procedure

Calculation

Determination of Ash

Procedure

Calculation

Determination of Protein

Apparatus

Reagents

Calculation

Determination of Residue Insoluble in Acid

Reagents

Procedure

Calculation

Determination of Gum Content

Procedure

Economic Aspects

20. Herbicide

2, 4-Dichloro Phenoxy Acetic Acid (2, 4-D Acid) Manufacturing Process Raw Material requirements Reaction Flow Diagram Uses Grades **Toxicity** 21. Industrial Gases Overview Nitrogen Oxygen Argon Hydrogen Helium Carbon Dioxide - CO2 Liquefied Natural Gas Acetylene Nitrous Oxide 22. Industrial Halogens **Bromine** Manufacturing Process Bromine from Sea Water Reaction Raw material requirements Reaction Uses Grades **Toxicity** Chlorine **Properties** Manufacturing Process From Salt by Electrolysis Raw material requirements (Diaphragm cell) Reaction Uses Grades **Toxicity** Iodine Manufacturing Process From Oil-well Brines (Silver iodide process) Raw material requirements Reaction Uses Grades **Toxicity** 23. Inorganic Chemicals - With Multipurpose end use

Manufacturing Process

Activated Alumina

From Alum and Caustic Soda
Raw material requirement
Reaction
Uses
Grades
Toxicity
Activated Carbon
Properties
Manufacturing Process
From Charcoal
Raw Material Requirements
Uses
Grades
Toxicity
Phosphorus Oxychloride

Properties

Manufacturing Process

From Phosphorus Trichloride and Phosphorus

Pentoxide

Raw material requirements

Reaction

Uses

Grades

Toxicity

Sodium Acetate

Properties

Manufacturing Process

From Acetic Acid and Soda Ash

Raw material requirements

Reaction

Uses

Grades

Toxicity

Sodium Chloride

Properties

Manufacturing Process

By Solar Evaporation

Raw material requirements

Major Engineering Problems

Uses

Grades

Toxicity

24. Inorganic Salts

Aluminium Chloride

Properties

Manufacturing Process

From Aluminium Metal and Chlorine

Raw material requirements

Reaction

Uses

Grades

Toxicity

Ammonium Chloride **Properties** Manufacturing Process From ammonium sulphate and sodium chloride Raw material requirements Reaction Uses Grades **Toxicity Ammonium Nitrate Properties** Manufacturing Process From Ammonia and Nitric Acid Raw Material Requirements **Barium Carbonate Properties** Manufacturing Process From Barium Sulphide and Carbon Dioxide Raw material requirements Reaction From Barium Sulphide and soda Ash Raw material requirements Reaction Uses Grades **Toxicity** Copper Sulphate **Properties** Manufacturing Process Raw material requirements Reaction Uses Grades **Toxicity**

From Cupric Oxide and Sulphuric Acid

Uses

Grades

Toxicity

Ferrous Sulphate Heptahydrate

Properties

Manufacturing Process

From Steel Pickling Liquor

Raw material requirements

Reaction

Uses

Grades

Toxicity

Potassium Silicate

Properties

Manufacturing Process

From Sodium Silicate

Raw material requirements

Uses

Grades

25. Linalol

Introduction

Raw Materials Required

Process

Miscellaneous

Properties

Containers

Grades

Uses

Plant & Machinery

Plant Economics

Market Potential

26. Litharge (Lead Monoxide, Yellow Lead

Oxide) pbo

By Air Oxidation of Lead Metal (4 Alternate

Processes)

Reaction

Material Requirements

Process

Properties

Grades

Containers

Purity

Determination of Litharge Content

General

Volumetric Method

Reagents

Procedure

EDTA Method

Reagents

Procedure

Economic Aspects

27. Metallic Stearates

Aluminium Stearate

Calcium Stearate

Magnesium Stearate

Lead Stearate

Zinc Stearate

Metallic Stearates

Manufacturing Process

Raw material requirements

Aluminium Stearate

Test

Reaction

Uses

Aluminium Stearate

Calcium Stearate

Lead Stearate

Magnesium Stearate

Zinc Stearate

Grades

Toxicity

28. Metal Treatment and Degreasing chemicals

Chromic Acid

Properties

Manufacturing Process

From Sodium Dichromate

Raw material requirements

Reaction

Uses

Grades

Trichloroethylene

Properties

Manufacturing Process

From Acetylene and Chlorine

Raw material requirements

Reaction

Uses

Grades

Toxicity

29. Natural Gas

Characteristics

Occurrence of Natural Gas

Preparing Natural Gas for Transmission and Sale

Processing for Liquids Recovery

30. Acetaldehyde

Properties

Aceto Acetic Ester

Properties

Manufacturing Process

Raw Material Requirement

Reaction

Uses

Grades

Toxicity

Fire Fighting

Aniline

Properties

Manufacturing Process

From Nitrobenzene by reduction

Raw Material requirements

Benzaldehyde

Properties

Manufacturing Process

Oxidation of Toluene

Raw material requirements

Reaction

Uses

Grades

Specifications for Benzaldehyde
Toxicity
Carboxy methyl cellulose (sodium Salt)
Properties
Manufacturing Process
From Waste Cotton (or cellulose)
Raw material requirements
Reaction
Uses
Grades
Ethylene Dichloride
Properties
Manufacturing Process
From Ethylene and Chlorine

Raw material requirements

Glycerine

Properties

Manufacturing Process

Raw material requirements

8-Hydroxy Quinoline

Properties

Manufacturing Process

Raw material requirements

Uses

Grades

Toxicity

31. Perfumery, FragNance and Flavour

Chemicals

Benzyl Acetate

Properties

Manufacturing Process

Raw material requirements

Reaction

Coumarin

Properties

Manufacturing Process

Raw material requirements

Reaction

Uses

Grades

Toxicity

Phenylacetic Acid

Properties

Manufacturing Process

From Benzyl Chloride

Raw material requirement

Reaction

Uses

Grades

Toxicity

Vanillin

Properties

Manufacturing Process

From Waste Sulphite Pulp Liquor

Raw material requirements

Reaction

Uses

Grades

Toxicity

32. Phosphorus and Phosphates

Introduction

Phosphate Rock

Resources

Phosphate Ores

Mining

Beneficiation

Elemental Phosphorus and Phosphoric Acid

Furnace Phosphoric Acid

Industrial Phosphates

Wet Process Phosphoric Acid

Dihydrate Process

Major Dihydrate Processes

Hemihydrate Processes for Phosphoric Acid

Unit Operations

Superphosphoric Acid

Wet Process Acid by-Products

Phosphogypsum

Fluorine Recovery

Uranium Recovery

Purified Phosphoric Acid

Environmental Aspects

33. Plasticiser

Chlorinated Paraffin Wax

Molecular Formula

Properties

Dialkyl Phthalates

Dimethyl Phthalates

Properties

Diethyl Phthalate

Properties

Dibutyl Phthalates

Properties

Dioctyl Phthalates

Properties

Diamyl Phthalates

Properties

Manufacturing Process

From Phthalic Anhydride and Alcohol by

Esterification

Raw material requirements

Dibutyl phthalate

Reaction

Uses

Grades

Toxicity

Tricresyl Phosphate

Properties

Manufacturing Process

From Cresol and Phosphorus Oxychloride

Reaction

Uses

Grades

Toxicity

34. Potassium Permanganate (KMnO4)

Properties

From Manganese Ore

Reaction

Material Requirements

Process

From Potassium Manganate by Electrochemical

Oxidation

Reaction

Material Requirements

Process

Grades

Containers

Purity

Determination of Potassium Permanganate Content

Reagents

Procedure

Calculation

Economic Aspects

35. Red Iron Oxide

Introduction

Raw Material Requirements

Process

Plant and Machinery

Uses

Market Potential

Plant Economics

Properties

Grades

Containers

Determination of Ferric Oxide (Red)

Reagents

Procedure

Calculation

36. Red Lead (Pb3O4)

Introduction

Raw Material Requirements

Process of Manufacture

Plant and Machinery

Plant Economics

Economic Aspects/Market Potential Miscellaneous **Properties** Grades Containers Hazard Uses **Analytical Testing Determination of Lead** Procedure Calculation 37. Resorcinol (3-Hydroxy Phenol) From Benzene Reaction Raw Material Requirements **Process Properties** Grades Containers Purity **Economic Aspects** 38. Rubber & Rubber Chemicals Butadiene **Properties** Manufacturing Process From Butane by Dehydrogenation (Hydro Catadiene process) Raw material requirements Reaction Uses Grades **Toxicity Chlorinated Rubber Properties** Manufacturing Process Raw material requirements From Rubber Solution Test Uses Grades Diphenylamine **Properties** Manufacturing Process From Aniline Raw material requirement Reaction Uses Grades **Toxicity** 39. Saccharin

39. Sacchann

Alkali Oxidation Process
Raw Material Requirements
Process
Sodium Dichromate Process
Chromic Acid Process
Sodium Saccharin
Liquid Saccharin

Properties

Grades

Purity

Economic Aspects

40. Salicylic Acid

From Phenol

Reaction

Material Requirements

Process

Properties

Grades

Containers

Purity

Reagents

Procedure

Economic Aspects

41. Silica Gel SiO2nH2O

From Sodium Silicate and Sulphuric Acid

Raw Material Requirements

Process

Properties

Grades

Containers

Purity

Procedure

Water Soluble Chlorides

Reagents

Procedure

Calculation

Cobalt Assessment

Reagents

Procedure

Calculation

Ammonium Compounds

Apparatus

Reagents

Procedure

Water Soluble Sulphates

Reagents

Procedure

Economic Aspects

42. Salt, Chlor-Alkali, and Related Heavy

Chemicals

Sodium Chloride

Soda Ash

Sodium Bicarbonate

Sodium Sulfate

Sodium Sulfides

Sodium Thiosulfate

Sodium Sulfite

Sodium Bisulfite

Sodium Hyposulfite

Sodium Phosphates

Sodium Silicate

Chlor-Alkali (Chlorine and Caustic Soda)

Hydrochloric Acid

Bromine and Brine Chemicals

Bleaches

Sodium Chlorate

43. Silicone Resin

Manufacturing Process

Laboratory Testing

Silicone Resin

Rapid Method for Determination of Silicone

Laboratory Testing

Silica Resin

Determination of Silica by the Gravimetric Method

Reagents

Procedure

Properties

Calculation

44. Solvents

Acetone

Properties

Carbon Tetrachloride

Properties

Manufacturing Process

From Carbon Disulphide and Chlorine

Raw material requirements

Chlorobenzene And Dichlorobenzene

Chlorobenzene

p-Dichlorobenzene

Properties

Ethyl Acetate

Properties

Manufacturing Process

From Ethyl Alcohol and Acetic Acid by

Esterification

Raw material requirements

Isopropyl Alcohol

Properties

Manufacturing Process

From Propylene

Raw material requirements

Methyl Alcohol (Methanol)

Properties

Manufacturing Process

From Carbon Monoxide and Hydrogen

Raw material requirements

Methyl Ethyl Ketone

Properties

Manufacturing Process

From Secondary Butyl Alcohol by Dehydrogenation

Raw material requirements

Reaction

Uses

Grades

Toxicity

Nitrobenzene

Properties

Manufacturing Process

From Benzene and Nitric Acid

Raw material requirements

Nitroparaffins

Nitromethane

Properties

45. Sulfur and Sulfuric Acid

Sulfur

Development of the Sulfur Industry

Sulfur Production Processes

Recovered Sulfur

Sulfuric Acid

Uses of Sulfuric Acid

Manufacture of Sulfuric Acid by the Contact

Process

Sulfur Dioxide production

Conversion of SO2 to H2SO4

Absorption of SO3

Other Sources of Sulfuric Acid

46. Ultramarine Blue

47. Raw Material Requirements

Process

Properties

Grades

Containers

Purity

General

Apparatus

Reagents

Procedure

Calculation

Test for Fastness of Light

General

Apparatus

Procedure

Test for soluble organic colouring matter General Reagents Procedure Market Aspects

47. Zinc Sulphate
Introduction
Properties
Uses
Scope
Manufacturing Process
Purification
Laboratory Testing of Zinc Sulphate
Determination of Zinc
Reagents
Procedure
Calculation

About NIIR

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