

The Complete Technology Book on Dyes & Dye Intermediates

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Dyeing is the process of imparting colours to a textile material. Different classes of dyes are used for different types of fiber and at different stages of the textile production process, from loose fibres through yarn and cloth to completed garments. Dyes are any substance, natural or synthetic, used to colour various materials, and have wide industry applications ranging textiles, leather, and food, paper etc. They are available in widest ranges for different applications like acid dyes for wool and nylon, direct dyes for cotton, etc. Dyes and its intermediates are specifically used to make the textiles decorative and attractive. At present, India contributes about 6% of the share in the global market with a CAGR of more than 15% in the last decade.

The organized sector dominates, with 65% share of the total market, while the unorganized sector controls the remaining 35% of the market. The demand for dyes and dye intermediates is expected to grow at around 6%, backed by strong demand from the textiles, leather, and inks industries. Dyestuff sector is one of the core chemical industries in India. It is also the second highest export segment in chemical industry. The major users of dyes in India are textiles, paper, plastics, printing ink and foodstuffs. The textiles sector consumes around 80% of the total production due to high demand for polyester and cotton, globally. Globally the dyestuffs industry has seen an impressive growth.

This book majorly deals with classification & nomenclature of dyes, commercial form of dyes, properties, formulae, applications of dyes, manufacturing process of dye intermediates, plant and machinery used etc. The major contents of the book are diazotization, coupling, azo coupling, oxidative coupling, anthraquinone dyes; disperse dyes, dispersion, effect of dispersing agents etc.

Due to increasing growth of textile industries, demand of dyes and dye Intermediates are also increasing very fast in domestic as well as in global market. The book gives stress on syntheses of different types of dyes and dye Intermediates. The formulae and processes have been described in very proper way. Professionals, corporate houses and new entrepreneurs will find this book very useful.

Contents

1. Dyes & Dye Intermediates

Classification & Nomenclature of Dyes

2. Azo Dyes

Diazotization

Coupling

* Azo Coupling

* Oxidative Coupling

Classification of Azo Dyes

- * Primary Disazo Dyes
- * Secondary Disazo Dyes
- * Miscellaneous Disazo Dyes

Types of Azo Dyes : Structures,
Application, Uses
Methods of Manufacture
Manufacture Congo Red
Diazotization
Coupling
Isolation
Diazotization of Benzidine
First Coupling
Second Coupling
Third Coupling
Isolation
Diazotization
Coupling
Isolation
Diazotization of Benzidine
Coupling
Isolation
Ethylation
Diazotization of Dianisidine
Coupling
* Yield
Direct Light Fast Blue 4GH
Plant for Azo Dyes
Important notes for diazotization
and Coupling
Methods of Analysis of Azo Dyes
* Identification
Methods of Analysis of Azo Dyes
* Procedure
* Hydrolysis
* Nitric Acid Split
* Procedure
Identification of Arylamines in
Cleavage Products
Procedure
Identification of Diamines in
Cleavage Products
Separation
* Blowout Method
* Identification of Coupling Components
Assay Methods
* Salt Test
* Adsorption Chromatography
* Procedure
* Application Method
* Titanous Chloride Reduction
Standardization
Preparation of Methylene Blue Solution
* Absorption Spectrophotometry

Standardization
Preparation of Ferric ammonium Sulfate
Standardization
Direct Reduction Method
3. Reactive Dyes
Introduction
Development of Reactive Dyes
* Chromophoric System
* The Bridging Group
The Reactive System
Synthesis
Reactive Dyes for Cellulosic Materials,
Wool & Nylon
* Cellulosic Materials
* Reactive Systems Based on
Nucleophilic Substitution
* Reactive Systems Based on
Nucleophilic Addition
* Reactive System Based on Both
Nucleophilic Addition and Substitution
* Dyes that React with Fibers Under
Acid Conditions
* Polyfunction Fixing Agents from
Covalent Bonds with Both the Dyestuff
and the Substrate
* Dyes Containing several Reactive
Groups
* Wool
* Reactive Systems Based on
Nucleophilic Substitution
* Reactive Systems Based on Nucleophilic
Addition
* Reactive Systems Based on Both Nucleophilic
Addition and Substitution
* Reactions involving Disulfide Bonds
* Reactions involving Modified Wool
* Reactive Dyes for Nylon
Classification of Reactive Dyes
Vinyl Sulfone Reactive Dyes
Tetrachloro Pyrimidine Dyes
Chemistry of tetrachloropyrimidines
Reactive Dyes Based on Epoxides
Other types of Reactive Dyes
Reactivity of different types of Reactive Dyes
Application
Purification of Reactive Dyes
Advantages and Limitations of Reactive Dyes
Fabric Preparation
Washing off
New Development of Reactive Dyes
Kayacelon Reaction Dyes
Cibacron C Dyes
Procion Supra Dyes of (I.C.I.)

Procion HEXL Dyes
Prociline N Dyes
Manufacturing Processes
Acetylation of H Acid
Diazotisation of Tobias Acid
Reactive Dyes with Trichloropyrimidine as
Reactive Group
Reactive Dyes with 2, 3-Dichloroquin-oxaline
-6-Carbonyl Chloride as Reactive Group
Reactive Dyes with Chloroacetyl as
reactive Group
Reactive Dyes with 6-amino-2-chlorobenzo-
thia-zole-5 Sulphonic acid as reactive group
Control Test
Properties of Cynuric Chloride
Chlorosulfonic Acid
Commercial Grades and specificaion of
Chlorosulphonic Acid
Identification of Reactive Dyes
Analysis
4. Anthraquinone Dyes
Disperse Dyes
Dispersion
Effect of Dispersing Agents
Levelling Agents
Classification
Disperse dyes in the dye bath
Disperse dyes in the fibre
Sensitivity to Metal
Solacet Dyes (Water Soluble)
Current Research Work
Manufacturing Processes
Emulsion of Diphenylamine
Diazontisation of Aniline
Acid Pasting and dispersion
Treatment with hydrochloric acid
* Reactions
* Reduction
Aminoanthraquinone Dyes
* Anthrarufin and Chrysazin Derivatives
Vat Dyes
Acylaminoanthraquinones
Aminoanthraquinone Anthramides
Anthraquinone-Carbozoles
Ring Closure with aluminium chloride
Ring Closure with Titanium Tetrachloride
Ring Closure with Sulphuric acid
Ring Closure with Potassium Hydroxide
Oxidation
Characterisation of Anthrimides and
Anthraquinone Carbozoles
Spectral Differentiation
Infrared

C = O Stretching and NH deformation
Vibrations
Aminoanthraquinone Indantrones
Vat Paste
* Manufacturing of Vat Paste
* Manufacturing Process
Standardisation of Vat Dyestuffs
Identification of Vat Dyes
5. Acid Dyes
* Sample Acid Dyes
* Mordant Acid Dyes
* Premetallized Acid Dyes
Manufacturing Processes
Mordant Dyes
Heat transfer Dyes
Economic Aspects
6. Basic Dyes
Classification of Basic Dyes
Manufacturing Processes
Economic Aspects
Health and Safety Factors
Uses
Methods of Analysis
* Identification
Dyes on Substrates
Assay Methods
Titration Methods
Miscellaneous Assay Methods
Application Methods
Determination of Impurities
7. Sulfur Dyes
* Chemical Properties
Manufacturing Process
* Oxidation
Grain Standardisation
Manufacture
Application
Economic Aspects
Commercial Forms of Sulfur Dyes
Health and Safety Factors
Uses
8. Cyanine Dyes
* Properties
Examples of Nuclie Occuring in Important
Cyanine Dyes
Photophysical Properties
Synthesis of Cyanines and Related dyes
Reactivity of Cyanine Dyes
Uses and Suppliers
9. Sensitizing Dyes
* Introduction
Sensitization Wavelength and Efficiency
Structural Classes of Spectral Sensitizers

Spectral Sensitization of Silver Halides
Spectral Sensitization of Inorganic and Organic Solids
Spectral Sensitization of Photoresists, Photopoly, and Photopolymerization
10. Natural Dyes
Anthraquinones
Animal Anthraquinone Dyes Kermes
Naphthoquinone Types
* Betanin
* Indigoid Dyes
* Carotenoids
* Chlorophyll
11. Dye Carriers
Carrier Formulation
Basis for Carrier Selection
Dyeing Procedures
Health and Safety Factors
12. Application of Dyes
Theories of Dyeing
Dyeing Machinery
* Transportation of Dye Liquor
Through the Textiles
(Raw Stock, Silver, Yarn or Cloth)
Machines Based on Movement of Both Dye Liquor and Material
Preparation for Dyeing
Acid (Anionic) Dyes
* Dyeing Processes
Basic (Cationic) Dyes
Direct Dyes
Uses
Application
Disperse Dyes
Dyeing Methods
Fiber-Reactive Dyes
Sulfur Dyes
Insoluble Azo Dyes (Naphtholes)
Vat Dyes
Miscellaneous Dyes
Dyeing of Fiber Blends
Pigment Dyeing
Solvent Dyeing
Textile Printing
Dyes in Textile Printing
Paper Colouring
* Production of Coloured Paper
Batch Dyeing
Continuous Dyeing
Leather Dyeing
* Leather Dyeing Methods and Equipment
Evaluation of Dyes
Colourfastness

Lightfastness
Washfastness
Miscellaneous Fastness Properties
Application Properties
Qualitative And Quantitative Analyses
Paper and Thin Layer Chromatography
High Pressure Liquid Chromatography
Spectroscopic Methods
Colour Difference Evaluation and
Colour Sorting
* Colourant Formulation
13. Dyes for Non-Textile Application
Leather Dyes
Leather Dyeing
Paper Colours
Solvent Colours
Fat Soluble Dyes
Zapon Fast Dyes
Neozapon Dyes
Sudan Dyes
Thermoplast Dyes
Manufacturing Process
Biological Stains
Dyes Used in Microscopy
Influence of Impurities on Intensity
of Staining
Staining of Bacteria
Food Colours
* Characteristics of Certified Food Colours
* Solubility
* Specification
Manufacturing Process
Material of Construction for Plant
Manufacturing Process
Dyes for Miscellenous Uses
Waste Water Treatment Textile
Dyes and their Uses
* Materials and Methods
* Experimental Details
Observations and Result
Conclusion
14. Analysis of Dyes
Dye Classification
* Classification according to Usage
* Classification according to
Chemical Structure
Methods of Analysis
Identification of Dyes
* Cationic Dyes
* Metal Complex Dyes
* Vat Dyes
* Leuco Ester Vat Dyes
* Sulfur Dyes

* Reactive Dyes

* Pigments

* Disperse Dyes

15. Dye Intermediates

Introduction

* Sources of Raw Material

* List of Intermediates, Nomenclature;

Auxiliary Agents

* Equipment and Manufacture

* Chemistry of Dye Intermediates

* Electrophilic Substitution

* Transformation of Primary

Substitution Products

* Examples of the Most Important

Reactions Sulfonation

* Reduction

* Alkali fusion

* Nucleophilic Replacement of Activated CL

* Special Reactions and Rearrangements

* Benzidine Rearrangement

* Bucherer Reaction

* Kolbe-Schmitt Reaction

Project Briefs

Aceto Acetanilide

Anthraquinone

2-Chloroanthraquinone

2-Amino Anthraquinone

1-Hydroxy Anthraquinone

1-Hydroxy Anthraquinone

1:4 Dihydroxy Anthraquinone(Quinizarine)

1:4 Diamino Anthraquinone

1-Amino-2-Methyl-Anthraquinone

2-Methyl Anthraquinone

1-Nitro-2-Methylantraquinone

1-Amino-2-Methylantraquinone

Benzanthrone

Manufacturing Process

* Bromobenzanthrone

* Benzidine Derivatives

* Chicago Acid and Peri Acid

* Cyanuric Chloride

* Gamma Acid

* H Acid

* Laurant's Acid

* Metanilic Acid

* Orthanilic Acid

* R Salt/R Acid

* Sulfanilic Acid

* Tobias Acid

* Vinyl Sulfone

* P-Aminophenol

* o-Phenylene Diamine

- * o-And P-Nitrochlorobenzene
- * p-Phenylenediamine
- * 1-Phenyl 3-Methyl 5-Pyrazolone
- * 1-Amino-2-Naphthol-4-Sulphonic Acid
- * Schaeffer's Acid
- * J-Acid
- * Alkali Fusion of Amino J-Acid
- * N-Phenyl J-Acid

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