

The Complete
Technology Book on
**Dyes & Dye
Intermediates**



**The Complete
Technology Book on
Dyes and Dye
Intermediates
(2nd Revised Edition)**



Introduction

Organic compounds or mixtures, as well as petroleum downstream materials, are dye intermediates that are synthesized for use in textiles, paints, plastics, paper, printing inks, and leather. Color, origin, chemical structure, and application process have all been used to classify dyestuffs into various categories. Acid orange, yellow, and acid black Dyes, Melachite green crystal, Basic magenta lumps, and Anthraquinone Type Intermediates are some of the most common Dyes Intermediates.



Acid, Direct, and Reactive Dyes all need them as a raw material. It is important to safeguard these chemicals.

A dye is a coloured material that has a particular preference for the substrate it is applied to. It's an organic compound that's both ionizing and aromatic. The dye is usually applied in an aqueous solution, and a mordant may be needed to improve the dye's fastness on the fiber.



Apart from that, Dye Intermediates are critical raw materials for Acid, Reactive, and Direct Dyes. Dye intermediates are petroleum byproducts that are further refined for use in a variety of applications. They are converted into finished dyes and pigments during processing. Textiles, plastics, paints, printing inks, and paper are only a few of the industries that use dye intermediates.



Apart from that, Dye Intermediates are essential raw materials for Acid, Reactive, and Direct Dyes. Hair dyes are one of the most popular uses for dye intermediates. Paraphenylenediamine and paratoluenediamine are two dye intermediates that are commonly used in hair dyes.



A natural or synthetic material that is used to modify or add colour to something. Dyes are the colouring products that give our everyday objects their colour. Dyes are used in almost every industry, from children's toys to the fabrics you wear, from food to wood; there isn't a single industry where dyes aren't used commercially.



Dye is a colourant that is used to give textiles, paper, leather, and other materials a permanent colour that is resistant to washing, heat, light, and other influences that the material is likely to be exposed to. Pigments are finely ground solids dispersed in a liquid, such as paint or ink, or blended with other materials, while dyes are finely ground solids dispersed in a liquid, such as paint or ink, or blended with other materials.



The majority of dyes are organic compounds (i.e., they contain carbon), while pigments can be either inorganic or organic compounds (i.e., they do not contain carbon). Pigments are dyes that are insoluble in the medium used, and they create brighter colours.



Popular Dye Dyes & Dye Intermediates

- **Acid orange, yellow and acid black Dyes**
- **Basic magenta lumps**
- **Melachite green crystal**
- **Anthraquinone Type Intermediates**
- **Amino Anthraquinone**
- **Anthraquinone-2-Carbon Acid**
- **1-Nitro Anthraquinone**
- **2-Chloro Anthraquinone**
- **1-Methylamino Anthraquinone**



- **Inkjet Dyes**
- **Metal-Complex Dyes**
- **Optical Brighteners**
- **Sublimation Dyes**
- **Dyes Intermediates**
- **Leather Dyes**
- **Natural Dyes**
- **Smoke Dyes**
- **Synthetic Dyes**
- **Leuco Dyes**



- **Textile Dyes**
- **Basic Dyes**
- **Acid Dyes**
- **Reactive Dyes**
- **Direct Dyes**
- **Fluorescent Dyes**
- **Digital Textile Printing Dyes**



Technological advances are occurring in the global dye intermediates industry. Companies are still trying to come up with new and better ways to create dye intermediates. The dye intermediates market is expected to be propelled by the development of new dye intermediates manufacturing processes and applications. The sector, however, is expected to be hindered by raw material price fluctuations.



The Indian dyes and dye intermediates market is expected to rise between 2019 and 2030, owing to the growing use of dyes and dye intermediates in the development of pigments for textiles and printing inks. Furthermore, the expansion of industries like industrial paint, printing, plastics, and tannery is driving up demand for dyes and dye intermediates for end-use applications.



Moreover, strong demand for dyes and dye intermediates from the textile industry is expected to drive growth in the Indian dyes and dye intermediates market during the forecast period. The global market for dyes, pigments, and dye intermediates is estimated to be worth around US\$ 23 billion, with dyes and pigments worth US\$ 16 billion and dye intermediates worth US\$ 7 billion.



Despite the fact that the dyestuffs industry's overall growth has slowed over the last five years, the industry is still projected to rise at a rate of about 2% per year in the coming years. The major players in this industry are China, Korea, India, Japan, and Taiwan. However, since they have focused on specialty goods, European countries have remained the largest producers in terms of market share.



DyeStar, a joint venture between Hoechst AG and Bayer AG, is the world's largest dyestuffs maker, with a 15% market share. Following that is BASF, which has a 12% market share. Ciba Specialty has a market share of around 11%, followed by Clariant AG with a market share of around 7%. Reactive dyes account for around 25% of total dye output globally, while disperse dyes account for 20%.



In every area of the planet, these two dyes have a dominant share. On the other hand, the demand for direct vat dyes and other similar products has remained relatively stable. China, Korea, and Taiwan are strong players in disperse dyes in Asia, while India leads in reactive dye production due to the easy availability of intermediates such as vinyl sulphone.



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- **Storage Tank**
- **Furnace**
- **Extractor Machine**

- **Hydro Extractor**
- **Dye Centrifuge Machine**
- **Dyes Filter Press**
- **Dye Ball Mill**
- **Dye Mixing Machine**
- **Dyes Pulverizer Machine**
- **Calcinatory**

- **Tray Dryer**
- **Fusion Chamber**
- **Vacuum Distillation Plant**
- **Dyes Packing Machine**
- **Diesel Generator Set**

12 Plant Layout and Process Flow Chart & Diagram

**#Dyes&Dye #DyeIntermediates #DyeIndustry #dyeingindustry
#textilechemicals #DyeMarket #DyePlant #TextileIndustry
#TextileMarket #DetailedProjectReport #businessconsultant
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AN ISO 9001: 2015 CERTIFIED COMPANY



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- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*

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- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Business Plan*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*

Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

Who do we Serve?

- Public-sector Companies
- Corporates
- Government Undertakings
- Individual Entrepreneurs
- NRI's
- Foreign Investors
- Non-profit Organizations, NBFC's
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations

Sectors We Cover

- Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling

Sectors We Cover *Cont...*

- Bamboo And Cane Based Projects
- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct

Sectors We Cover *Cont...*

- Copper & Copper Based Projects
- Dairy/Milk Processing
- Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Electrical, Electronic And Computer based Projects
- Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- Food, Bakery, Agro Processing

Sectors We Cover *Cont...*

- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitability Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries

Sectors We Cover

Cont...

- Infrastructure Projects
- Jute & Jute Based Products
- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing(Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- Organic Farming, Neem Products Etc.

Sectors We Cover *Cont...*

- Paints, Pigments, Varnish & Lacquer
- Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- Plastic Film, Plastic Waste And Plastic Compounds
- Plastic, PVC, PET, HDPE, LDPE Etc.

Sectors We Cover *Cont...*

- Potato And Potato Based Projects
- Printing And Packaging
- Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals

Sectors We Cover *Cont...*

- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry(Packaged Drinking Water & Mineral Water)
- Wire & Cable

MARKET RESEARCH REPORTS

Objective

- ⌘ To get a detailed scenario of the industry along with its structure and classification
- ⌘ To provide a comprehensive analysis of the industry by covering aspects like:
 - ⌘ Growth drivers of the industry
 - ⌘ Latest market trends
 - ⌘ Insights on regulatory framework
 - ⌘ SWOT Analysis
 - ⌘ Demand-Supply Situation
 - ⌘ Foreign Trade
 - ⌘ Porters 5 Forces Analysis

Objective

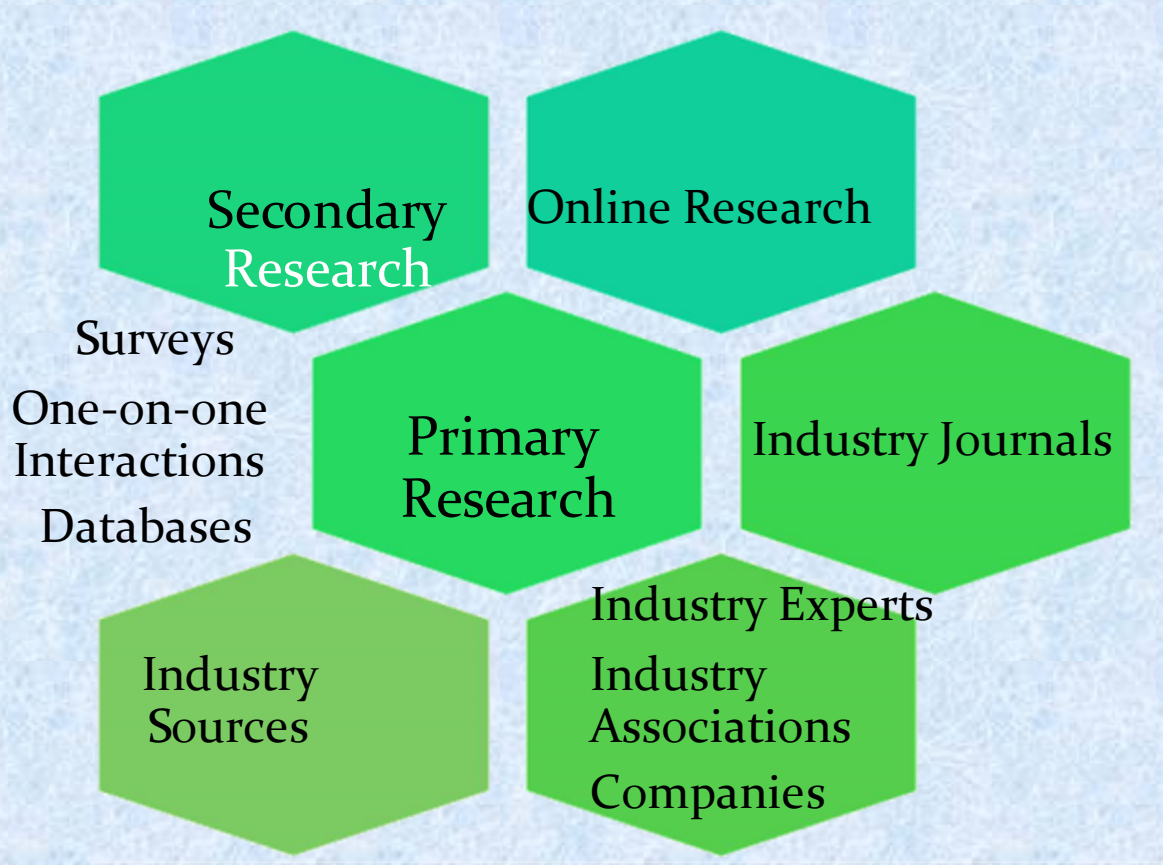
- ⌘ To provide forecasts of key parameters which helps to anticipate the industry performance
- ⌘ To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- ⌘ To help an entrepreneur/manager in keeping abreast with the changes in the industry
- ⌘ To evaluate the competitive landscape of the industry by detailing:
 - ⌘ Key players with their market shares
 - ⌘ Financial comparison of present players

Clientele

- ⌘Venturist/Capitalists
- ⌘Entrepreneur/Companies
- ⌘Industry Researchers
- ⌘Investment Funds
- ⌘Foreign Investors, NRI's
- ⌘Project Consultants/Chartered Accountants
- ⌘Banks
- ⌘Corporates

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Data Sources



Scope & Coverage



Our Team

⌘ Our research team comprises of experts from various financial fields:

⌘ MBA's

⌘ Industry Researchers

⌘ Financial Planners

⌘ Research veterans with decades of experience

Structure of the Report

- 1. Overview
- 2. Market Analysis
 - 2.1 Growth Drivers
 - 2.2 Emerging Trends in the Industry
 - 2.3 Regulatory Framework
 - 2.4 SWOT Analysis
 - 2.5 Herfindahl–Hirschman Index (HHI)
- 3. Market Forecasts
- 4. Key Players

Structure of the Report

Cont

- ❧5. Key Financials and Analysis
 - ❧5.1 Contact Information
 - ❧5.2 Key Financials
 - ❧5.3 Financial comparison
- ❧6. Industry Size & Outlook

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