

Natural Dyes Market by Type (Plant Based, Animal Based, Mineral Based), Structure, Form, Application, End-Use Industry (FnB, Cosmetic & Personal Care, Pharmaceuticals, Pulp & Paper, Packaging, Stationary & Art Supplies) - Global Forecast to 2029

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Abstracts

The natural dyes market is projected to reach USD 6.4 billion by 2029, at a CAGR of 5.7% from USD 4.8 billion in 2024. Synthetic dyes are one of the most chemically intensive industries and is a major contributor to water pollution. Synthetic dyes are non-biodegradable due to their chemical structure, adversely affecting the environment. The textile industry, which is a major end-user of dyes, accounts for around 6.7% of global greenhouse gas emissions. The dyeing process in the textile industry is a highly energy-intensive process as it requires large amounts of water to be heated. According to the UN Environment Programme (UNEP) report on sustainability and circularity in the textile value chain, the dyeing and finishing process contributes to around 36% of the entire textile value chain's impact on climate. Moreover, according to European Parliament, textile production is estimated to be responsible for around 20% of global clean water pollution from dyeing and finishing products.

Consumers are increasingly becoming aware of the harmful effects of synthetic dyes on the environment, which has led to a growing preference for eco-friendly products. Natural dyes are safer for both the environment and human health, aligning with the need for sustainable products. Moreover, consumers are willing to pay premium prices for sustainable products. According to the European Commission report on the European Union Market for Sustainable Products, 85% of retailers surveyed in France, Germany, Italy, the Netherlands, and Spain reported increased sales of sustainable products in the last five years (2014-2018). All these factors propelling the growth of natural dyes.

“Based on application, printing inks segment has the second largest market share during the forecast period, in terms of value.”

Natural dyes are increasingly utilized in the printing inks industry due to their sustainable and eco-friendly properties. Derived from plants, insects, and minerals, these dyes offer a wide range of vibrant colors that are often preferred for their aesthetic and environmental benefits. In printing inks, natural dyes contribute to the growing demand for green and sustainable products, aligning with the shift towards reducing reliance on synthetic chemicals. They are used in various applications, including packaging, labels, and promotional materials, where their natural origin and biodegradability add value to the end products.

“Based on end-use industry, cosmetic & personal care has the second largest market share during the forecast period, in terms of value.”

In the cosmetics and personal care industry, natural dyes play a significant role due to their appeal as safe, non-toxic alternatives to synthetic colorants. These dyes, derived from plants, minerals, and insects, are increasingly used in products such as lipsticks, skincare, shampoos, and lotions. The shift towards natural dyes is driven by rising consumer demand for clean, eco-friendly beauty products and growing awareness of the potential health risks associated with synthetic chemicals. Natural dyes offer a range of benefits including biocompatibility, reduced risk of skin irritation, and alignment with sustainable and ethical practices. The industry is embracing these dyes to enhance product safety and appeal, while also meeting regulatory requirements that favor natural and organic ingredients. As consumer preferences continue to evolve towards transparency and environmental responsibility, the use of natural dyes in cosmetics and personal care is expected to expand, offering both aesthetic and functional advantages.

“Based on region, North America is the second largest market for natural dyes in 2023, in terms of value.”

The natural dyes market in North America is expanding as consumer demand for eco-friendly and sustainable products grows. Driven by increasing awareness of environmental issues and health concerns, both individuals and businesses are turning to natural dyes as alternatives to synthetic options. In the region, natural dyes are gaining traction in sectors such as textiles, food and beverages, cosmetics, and personal care products. Innovations in extraction and application technologies, coupled with the rising trend of organic and clean-label products, are fueling market growth.

Additionally, regulatory support for natural and safe ingredients, along with a shift toward sustainable practices in manufacturing, is bolstering the market.

In the process of determining and verifying the market size for several segments and subsegments identified through secondary research, extensive primary interviews were conducted. A breakdown of the profiles of the primary interviewees are as follows:

By Company Type: Tier 1 - 35%, Tier 2 - 45%, and Tier 3 - 20%

By Designation: C-Level - 35%, Director Level - 25%, and Others - 40%

By Region: North America - 25%, Europe - 30%, Asia Pacific - 35%, Middle East & Africa-5%, and Latin America-5%

The key players in this market are include Abbey Color (US), AMA Herbal (India), Pylam Products Company Inc. (US), Archroma (Switzerland), GNT Group (Netherlands), Stony Creek Colors (US), NIG GmbH (Germany), Givaudan (Switzerland), Dohler GmbH (Germany), and Couleurs DE Plantes (France)

Research Coverage

This report segments the natural dyes market based on type, form, structure, application, end-use industry, and region, and provides estimations for the overall value of the market across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products and services, key strategies, new product launches, expansions, and mergers and acquisitions associated with the natural dyes market.

Key benefits of buying this report

This research report focuses on various levels of analysis, including industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view of the competitive landscape, emerging and high-growth segments of the natural dyes market, high-growth regions, and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of key drivers (Increasing demand of environmental friendly and sustainable products), restraints (High cost and accessibility of natural dyes,), opportunities (Increasing use of natural dyes in pharmaceutical and personal care products) and challenges (Scalability issue).

Market Penetration: Comprehensive information on the natural dyes market offered by top players in the global natural dyes market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the natural dyes market.

Market Development: Comprehensive information about lucrative emerging markets — the report analyzes the markets for natural dyes market across regions.

Market Diversification: Exhaustive information about new products, untapped regions, and recent developments in the global natural dyes market

Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the natural dyes market

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