

# Insights on the Organic Functional Dyes Global Market to 2027 – by Type, External Energy, Application, and Region

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/EINPresswire.com/ -- Astute Analytica estimates that the [global organic functional dyes market](#) size was US\$ 1,936 million in 2021. The global organic functional dyes market is expected to grow to US\$ 3,214 million by 2027 by registering a compound annual growth rate of 8.8% during the forecast period 2022-2030. In terms of volume, the global organic functional dyes market is expected to grow at a CAGR of 8%.

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The rising use of organic functional dyes due to their eco-friendly properties will primarily drive the growth of the market. Additionally, the global functional dyes market is expected to seize several opportunities in the coming years due to the wide applications of these dyes in the development of printing inks, paints, and coatings. Some of the renowned key players dealing in the global organic functional dyes market include Heubach GmbH, BASF, Kiri, and Clariant, which hold a cumulative share of 23.2%. The market is witnessing monopolistic competition in nature, which is expected to change into an oligopoly during the study period as industry players are making innovative strategic moves to gain a competitive edge.

## Global Organic Functional Dyes Market by Region

Europe's organic functional dyes market garnered the lead with the largest market share of 32% in 2021, owing to the rising demand for organic pigment from the pharmaceutical industry and growing knowledge about bio-based paints and coatings, combined with sustaining government laws. Recognizing the scope, industry players are fast expanding their reach through strategic steps in order to outgrow the market. For instance, Cathay Industries, a Belgium-based pigment manufacturer, acquired Hoover Color Corporation, a US-based pigment manufacturer, in June 2016 to get hold of the wider pigment customer base in the country.

The organic functional dyes market of Asia-Pacific will exhibit the highest CAGR of 9.9% due to the high production rate of organic dyes in India, China, and Japan. Additionally, rising construction activities led by growing urbanization in these countries will also present attractive prospects for market growth during the analysis period.

#### COVID-19 Impact Analysis

The COVID-19 pandemic led to a downturn in the growth graph of the organic functional dyes market as the rate of construction activities dramatically fell. Further, delays in the shipment of raw material prices and the significant decline in the demand for chemicals further hampered the organic functional dyes market growth.

#### Global Organic Functional Dyes Market Dynamics

##### Drivers:

Organic Functional dye applications are used in textile, electrophotography, optical data storage, LCDs, energy conversion, robotics, OLEDs, OFETs, thermal and ink-jet printing, electronic sensors, pH sensors, gas sensors, etc. The growing demand for organic functional dyes from these industries will fuel the growth of the market during the analysis period. Additionally, these dyes are growing in popularity due to the steadily declining cost of progressive printers. Further, the fact that consumers are willing to pay more for eco-friendly products will attract opportunities for market growth.

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##### Restraints:

The global organic functional dyes market is expected to confront obstacles due to price undercutting in order to compete with the organized sector and export market. This strategy results in companies outbidding each other and neglecting international competitors. The rising cost of raw materials may limit the demand from end-users, thereby hampering the growth of the overall organic functional dyes market.

##### Opportunity:

Organic dyes are also ideal for health-related applications like illness detection, treatment, and in vivo imaging. Further, organic functional dyes feature optical properties like fluorescence, absorption band, photodynamic, and photothermal, which will bring ample growth opportunities for the market during the analysis period. Additionally, the organic functional dyes exhibit photophysical characteristics, which are ideal for building effective optical diagnostic reagents.

##### Trends:

Trends like growing demand for environmentally friendly printing inks, paint and coatings, and plastics will benefit the global organic functional dyes market.

#### Segmental Analysis of the Global Organic Functional Dyes Market

Based on Type, the chromic dyes segment garnered the highest share of 70% in 2021 and is expected to grow at the highest CAGR of 9.9% during the study period. The sub-segment of chromic dyes, photochromic dyes, will continue to lead due to the fact that they offer excellent stability, especially when kept away from light and heat.

Based on external energy, the light segment leads with the highest share of 28% in 2021, while the electric field segment is expected to grow at the highest CAGR of 10.3%. The growth of the light segment is attributable to the fact that organic dyes absorb light in a specific wavelength range and develop various colors.

Based on the Application, the textile segment stayed dominant in 2021 with a value of US\$ 32.4 million due to the fact that functional dyes enable protection from UV radiation, microbes, insects, and moth. Meanwhile, moth and mosquito repellent dyes are expected to grow at the highest growth rate of 11.8% during the forecast period because these dyes provide protection against moths and mosquitos.

The global organic functional dyes market is segmented into following segments:

By Type

Chromic Dyes

- o Photochromic
- o Piezo chromic
- o Electrochromic
- o Others

Leuco Dyes

Fluorescent Dyes

Phosphorescent Dyes

Others

By External Energy

Heat

Light

Electric Field

Pressure

Chromophore

Other

By Application

Textile

- o Medical Textile
- o Non-Medical (Smart) Textiles

3D-Display

Electrophotography

Thermal and Ink-Jet Printing

Optical Data Storage  
LCDs  
OLEDs  
OFETs  
Energy Conversion  
Robotics  
Electronic Sensors  
pH Sensors  
Gas Sensors  
Optical & Chemical Sensors  
Molecular Scale Logic Devices  
Photodynamic Therapy  
Medical Diagnosis  
Functional Lens  
Imaging  
Packaging  
Thermo Regulation (Brand Forgery)  
Surface Disinfectant (antimicrobial)  
UV Protection Dye  
Moth/ Mosquito Repellant Dyes

By Region  
North America  
U.S.  
Canada  
Mexico

Europe  
UK  
Germany  
France  
Spain  
Russia  
Rest of Europe

Asia Pacific  
China  
Japan  
India  
ASEAN  
South Korea  
Rest of Asia Pacific

Rest of the World  
Middle East & Africa  
South Africa

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