

Global Macromolecular Photoinitiator Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GE3FA9C40BB2EN.html>

Date: April 2026

Pages: 142

Price: US\$ 4,480.00 (Single User License)

ID: GE3FA9C40BB2EN

Abstracts

The global Macromolecular Photoinitiator market size is expected to reach \$ 551 million by 2032, rising at a market growth of 3.2% CAGR during the forecast period (2026-2032).

In 2025, the global production of macromolecular photoinitiators reached 20,703 tons, with an average price of approximately US\$20,800 per ton. The global annual production capacity of macromolecular photoinitiators is approximately 40,000 tons, with a gross profit margin of approximately 21.2%. Macromolecular photoinitiators are a class of photoinitiators with high molecular weights, primarily used in photocurable materials, especially in UV and visible light curing resin systems. These initiators generate free radicals when exposed to light (usually UV light sources), thereby initiating a polymerization reaction and leading to rapid resin curing. The upstream of macromolecular photoinitiators includes carbonates, photosensitive/photoinitiating group precursors, photosensitive additives, and stabilizers; the midstream consists of macromolecular photoinitiator manufacturers; and the downstream applications are mainly in the food packaging, pharmaceutical, and printing industries.

The macromolecular photoinitiator market is currently experiencing rapid growth, primarily driven by increasing demand for polymer materials, photopolymerization, and precision molding in the pharmaceutical, electronics, and UV-curable coatings industries. Compared to small-molecule initiators, macromolecular photoinitiators offer significant advantages in thermal stability, reduced byproducts, improved film quality, and controllable polymerization, fostering interest and exploration of low-energy, long-wavelength light source (such as visible/near-infrared) initiation systems. The market landscape is becoming increasingly diversified, focusing on synergy between self-production and external supply, designable consistency and efficiency, and compliance

requirements for environmental friendliness and low toxicity. Simultaneously, the industry is driving end-to-end solution development through optimized coupling with photoinitiator frameworks and polymerization processes, customized application scenarios (such as medical materials, UV-curable coatings, and 3D printing), and deep integration with equipment manufacturers.

This report studies the global Macromolecular Photoinitiator production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Macromolecular Photoinitiator and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Macromolecular Photoinitiator that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Macromolecular Photoinitiator total production and demand, 2021-2032, (Tons)

Global Macromolecular Photoinitiator total production value, 2021-2032, (USD Million)

Global Macromolecular Photoinitiator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Macromolecular Photoinitiator consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Macromolecular Photoinitiator domestic production, consumption, key domestic manufacturers and share

Global Macromolecular Photoinitiator production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Macromolecular Photoinitiator production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Macromolecular Photoinitiator production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Macromolecular Photoinitiator market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Arkema S.A., IGM Resins, Kurogane Kasei, Eutec Chemical, Double Bond Chemical (DBC), ADEKA, San-Apro, Midori Kagaku, Chitec Technology, Zhejiang Yangfan New Materials, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Macromolecular Photoinitiator market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Macromolecular Photoinitiator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Macromolecular Photoinitiator Market, Segmentation by Type:

Macromolecular Amines

Macromolecular Thioxanthenes

Macromolecular Benzophenones

Macromolecular Benzoin Ethers

Macromolecular Acylphosphine Oxides

Others

Global Macromolecular Photoinitiator Market, Segmentation by Molecular Structure:

Side-Chain Cleavage Type

Main-Chain Cleavage Type

Side-Chain Hydrogen Abstraction Type

Main-Chain Hydrogen Abstraction Type

Global Macromolecular Photoinitiator Market, Segmentation by Photoinitiation Mechanism:

Free Radical Macromolecular Photoinitiators

Cationic Macromolecular Photoinitiators

Hybrid Macromolecular Photoinitiators

Global Macromolecular Photoinitiator Market, Segmentation by Application:

Food Packaging

Pharmaceuticals

Printing

Water-based Coatings and Inks

Companies Profiled:

Arkema S.A.

IGM Resins

Kurogane Kasei

Eutec Chemical

Double Bond Chemical (DBC)

ADEKA

San-Apro

Midori Kagaku

Chitec Technology

Zhejiang Yangfan New Materials

Tianjin Jiuri New Material

King Brother Chem (KBC)

Science&excellence Materials

Guangzhou Guangchuan Electronic Materials

PhiChem Corporation

Haihang Industry

TRONLY

Key Questions Answered:

1. How big is the global Macromolecular Photoinitiator market?

2. What is the demand of the global Macromolecular Photoinitiator market?
3. What is the year over year growth of the global Macromolecular Photoinitiator market?
4. What is the production and production value of the global Macromolecular Photoinitiator market?
5. Who are the key producers in the global Macromolecular Photoinitiator market?
6. What are the growth factors driving the market demand?

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