

Global Glyoxal Market Size Study & Forecast, by Application and End Use, and Regional Forecasts 2025-2035

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Abstracts

The Global Glyoxal Market is valued approximately at USD 0.32 billion in 2024 and is projected to grow at a steady CAGR of more than 4.30% during the forecast period from 2025 to 2035. Glyoxal, a versatile dialdehyde compound, plays a pivotal role across various industrial domains due to its powerful crosslinking properties. Commonly employed in resins, textiles, leather tanning, and paper products, glyoxal enhances durability, water resistance, and tensile strength. What amplifies its global market value is its unique capacity to act as a binding and preserving agent, facilitating advancements in the formulation of high-performance materials. The intensifying global demand for sustainable packaging and rising industrial applications in emerging economies are key drivers that are reshaping the trajectory of this market. Furthermore, increasing investments in eco-friendly chemical alternatives and glyoxal's low toxicity compared to substitutes have catalyzed its commercial penetration across several verticals.

An uptick in paper and packaging demand, propelled by e-commerce and retail expansion, continues to bolster glyoxal consumption. With governments increasingly enforcing environmentally conscious regulations, the compound's biodegradable and non-volatile characteristics present it as a favorable option, especially in the formulation of cross-linking polymers and wood treatment chemicals. Moreover, glyoxal's function as a sulfur scavenger in oil & gas operations is experiencing gradual adoption due to the pressing need for efficiency and environmental compliance. As global industries pivot towards green chemistry and sustainable raw materials, glyoxal emerges as a crucial intermediate that enables such transitions without compromising on performance metrics. However, stringent regulations around aldehydes and volatile organic compound (VOC) emissions, along with fluctuating raw material prices, may challenge

market expansion.

The geographical landscape of the glyoxal market reflects varied growth dynamics. North America, led by the United States, maintains a mature but consistently expanding demand owing to innovations in cosmetic formulations, resin production, and leather processing. Europe remains a frontrunner in sustainable chemical policies, which align with glyoxal's green profile and continue to fuel its applications in textiles and paper packaging. Meanwhile, the Asia Pacific region is anticipated to exhibit the fastest CAGR throughout the forecast period, particularly due to industrial proliferation in China, India, and Southeast Asia. These countries are witnessing robust growth in construction, automotive interiors, and textile sectors—core application areas for glyoxal. Additionally, the low production costs, favorable government initiatives, and easy access to raw materials create a fertile ground for market acceleration across the region.

Major market players included in this report are:

BASF SE

Hubei Hongyuan Pharmaceutical Technology Co., Ltd.

Silver Fern Chemical, Inc.

Eastman Chemical Company

Amadis Chemical Co. Ltd.

Tokyo Chemical Industry Co., Ltd.

Zhonglan Industry Co., Ltd.

Merck KGaA

Thermo Fisher Scientific Inc.

Mitsubishi Gas Chemical Company, Inc.

Toronto Research Chemicals

Sinopharm Chemical Reagent Co., Ltd.

WeylChem International GmbH

Haihang Industry Co., Ltd.

Huntsman International LLC

Global Glyoxal Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Application:

Paper

Cross-Linking Polymer

Sulfur Scavenger

Wood Hardening

Others

By End Use:

Oil & Gas

Paper Packaging

Leather

Textiles

Cosmetics

Furniture

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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