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Propylene Oxide Market Size, Share & Trends Analysis Report By Production Process (Chlorohydrin Process, Styrene Monomer Process, Hydrogen Peroxide Process), By Application (Polyether Polyols), By End Use (Automotive), By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

The global propylene oxide market size was estimated at USD 20,698.0 million in 2025 and is projected to reach USD 32,145.7 million by 2033, growing at a CAGR of 5.8% from 2026 to 2033. The growth of the propylene oxide market is primarily driven by rising demand for polyurethane foams, which represent the largest end-use application of propylene oxide globally.

These foams are extensively used in construction insulation, furniture, bedding, and automotive interiors due to their lightweight properties, energy efficiency, and thermal insulation performance.

Rapid urbanization, infrastructure development, and increasing residential construction-particularly in Asia Pacific and emerging economies, are significantly expanding consumption of rigid and flexible polyurethane foams. As energy efficiency standards in buildings become stricter, the need for high-performance insulation materials continues to strengthen propylene oxide demand.

The expanding use of propylene oxide in the production of propylene glycol, which is widely applied in unsaturated polyester resins, antifreeze formulations, de-icing fluids, pharmaceuticals, and food-grade applications. Growth in automotive production, cold-chain logistics, and industrial coolants is directly supporting higher consumption of

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propylene glycol across developed and developing markets. In addition, increasing demand for personal care products, cosmetics, and pharmaceutical formulations-where propylene glycol functions as a solvent and humectant, further reinforces steady downstream demand for propylene oxide.

Sustainability trends and technological advancements in production processes are also positively influencing the propylene oxide market. Manufacturers are increasingly adopting hydrogen peroxide to propylene oxide (HPPO) technology, which offers higher efficiency, lower energy consumption, and reduced environmental impact compared to traditional chlorohydrin methods. This shift aligns with global decarbonization goals and regulatory pressures to minimize chemical waste and emissions. As producers invest in cleaner and more cost-effective production routes, propylene oxide capacity expansions are becoming more attractive, supporting long-term market growth and improved supply economics

Global Propylene Oxide Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2033. For this study, Grand View Research has segmented the global propylene oxide market report based on production process, application, end use, and region:

Production Process Outlook (Volume, Kilotons; Revenue, USD Million, 2018 - 2033)

Chlorohydrin Process

Styrene Monomer Process

TBA Co-Product Process

Hydrogen Peroxide Process

Cumene-Based Process

Application Outlook (Volume, Kilotons; Revenue, USD Million, 2018 - 2033)

Polyether Polyols

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Propylene Glycols

Glycol Ethers

Other Applications

End Use Outlook (Volume, Kilotons; Revenue, USD Million, 2018 - 2033)

Automotive

Building & Construction

Chemical & Pharmaceutical

Textile & Furnishing

Packaging

Electronics

Other End Use

Regional Outlook (Volume, Kilotons; Revenue, USD Million, 2018 - 2033)

North America

- U.S.
- Canada
- Mexico

Europe

- Germany
- UK
- France

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- Italy
- Spain

Asia Pacific

- China
- India
- Japan
- South Korea

Latin America

- Brazil
- Argentina

Middle East and Africa (MEA)

- South Africa
- Saudi Arabia

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