

# **Ethylene oxide and Ethylene Glycol Market by Product Type (Ethylene Glycol, Ethoxylates, Ethanolamines, Glycol Ethers), Application (Polyester Fibers, Antifreeze & Coolants, PET Resins), End-Use Industries, and Region - Global Forecast to 2029**

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## **Abstracts**

The global ethylene oxide and ethylene glycol market is expected to grow at a CAGR of 5.5% during the forecast period, from an estimated USD 39.7 Billion in 2024 to USD 51.9 Billion by 2029. The demand for ethylene oxide and ethylene glycol is increasing due to their versatile applications across various industries. Ethylene glycol is extensively used in the production of PET resins, polyester fibers, antifreeze solutions, and other products in automotive, textiles, plastics, and packaging sectors. Additionally, ethylene oxide is crucial for healthcare sterilization purposes. Advancements in production technologies, sustainability practices, and growing consumption in emerging economies further contribute to the rising demand for these chemicals.

“Ethylene Glycol accounted for the largest share in product type segment of ethylene oxide and ethylene glycol market in terms of value.”

Ethylene glycol commands the largest share in the product type segment of the ethylene oxide and ethylene glycol market due to its extensive use and versatile applications across multiple industries. As a key raw material, ethylene glycol plays a pivotal role in the production of PET resins, which are widely utilized in the manufacturing of plastic bottles, packaging materials, fibers for textiles, and polyester films. Its properties, including excellent thermal stability, hygroscopic nature, and the ability to form stable solutions, make it a preferred choice for manufacturers in various sectors. Moreover, ethylene glycol is commonly used in antifreeze formulations for automotive engines and HVAC systems, further increasing its demand. The growing

adoption of ethylene glycol in emerging economies, driven by rapid industrialization and urbanization, also contributes significantly to its dominant market position within the ethylene oxide and ethylene glycol segment.

“Polyester fibers accounted for the largest share in application segment of ethylene oxide and ethylene glycol market in terms of value.”

Polyester fibers hold the largest share in the application segment of the ethylene oxide and ethylene glycol market due to their versatility and widespread use in various industries. These fibers, derived from ethylene glycol through polymerization processes, possess excellent properties such as strength, durability, resistance to wrinkles, and ease of care. This makes them highly desirable for applications in textiles, apparel, home furnishings, industrial fabrics, and non-woven materials. Additionally, polyester fibers are favored for their ability to be blended with other fibers, enhancing their performance and applicability across different sectors. The growing demand for textiles, especially in emerging economies, coupled with continuous innovations in production techniques and sustainability practices, further reinforces polyester fibers' dominance in the ethylene oxide and ethylene glycol market's application segment.

“Textile accounted for the largest share in the end-use industry segment of ethylene oxide and ethylene glycol market in terms of value.”

The textile industry commands the largest share in the end-use industry segment of the ethylene oxide and ethylene glycol market due to its extensive utilization of ethylene glycol in polyester fiber production. Polyester fibers, derived from ethylene glycol through polymerization processes, offer exceptional properties such as strength, durability, wrinkle resistance, and ease of care. These qualities make polyester fibers highly sought-after for a wide range of applications, including apparel, home textiles, industrial fabrics, and non-woven materials. Moreover, the versatility of polyester fibers allows for the creation of innovative and high-performance textiles suitable for various sectors such as fashion, sportswear, automotive, and furnishings. The growing demand for textiles in emerging economies, coupled with advancements in textile technologies and sustainability practices, further strengthens the textile industry's dominant position in the ethylene oxide and ethylene glycol market's end-use segment.

“Asia-Pacific is the largest market for ethylene oxide and ethylene glycol.”

The Asia Pacific region holds the largest share in the ethylene oxide and ethylene glycol market due to several key factors. Firstly, the region's rapid industrialization, particularly

in countries like China, India, and Southeast Asian nations, fuels substantial demand for ethylene glycol across various industries such as automotive, textiles, plastics, and packaging. Additionally, the burgeoning population and rising disposable incomes in these economies lead to increased consumption of ethylene glycol-based products like PET resins, polyester fibers, and antifreeze solutions. Furthermore, Asia Pacific benefits from supportive government policies, investments in infrastructure, and technological advancements, creating a conducive environment for market growth. The strategic geographical location of the region, its access to raw materials, and expanding export opportunities further contribute to Asia Pacific's dominance in the ethylene oxide and ethylene glycol market.

In-depth interviews were conducted with Chief Executive Officers (CEOs), marketing directors, other innovation and technology directors, and executives from various key organizations operating in the ethylene oxide and ethylene glycol market, and information was gathered from secondary research to determine and verify the market size of several segments.

By Company Type: Tier 1 – 40%, Tier 2 – 30%, and Tier 3 – 30%

By Designation: C Level Executives– 20%, Directors – 10%, and Others – 70%

By Region: North America – 20%, Europe – 30%, APAC – 30%, South America- 10% , and

the Middle East & Africa –10%

The ethylene oxide and ethylene glycol market comprises major players such as BASF SE (Germany), SABIC (Saudi Arabia), Shell Plc (UK), Dow Chemical Company (US), ExxonMobil Corporation (US), Clariant AG (Switzerland), LyondellBasell Industries Holding B.V (US), Huntsman Corporation (US), Nippon Shokubai Co., Ltd. (Japan), INEOS Group (UK), Thermo Fisher Scientific Inc. (US), Reliance Industries Limited (India) and others. The study includes in-depth competitive analysis of these key players in the ethylene oxide and ethylene glycol market, with their company profiles, recent developments, and key market strategies.

## Research Coverage

This report segments the market for ethylene oxide and ethylene glycol market on the

*Ethylene oxide and Ethylene Glycol Market by Product Type (Ethylene Glycol, Ethoxylates, Ethanolamines, Glycol...*

basis of product type, 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 & services, key strategies, new product launches, expansions, and mergers & acquisition associated with the market for ethylene oxide and ethylene glycol market.

#### Key benefits of buying this report

This research report is focused on various levels of analysis — industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view on the competitive landscape; emerging and high-growth segments of the ethylene oxide and ethylene glycol market; high-growth regions; and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

**Market Penetration:** Comprehensive information on the ethylene oxide and ethylene glycol market offered by top players in the global ethylene oxide and ethylene glycol market.

**Analysis of drivers:** (Strong demand for polyester fibers and PET resins, Growing demand for antifreeze, Technological advancements in production processes, Increasing demand for household and personal care products), restraints (Rising crude oil prices. Regulatory scenario, Geopolitical factors affecting supply chain), opportunities (Growing Asia-Pacific market, Growing non-ionic surfactant demand, Development of bio-based ethylene oxide and glycol production technologies, Integration of ethylene oxide derivatives in pharmaceutical and personal care products), and challenges (Price volatility and fluctuations in raw material costs, Stringent environmental regulations impacting production processes) influencing the growth of ethylene oxide and ethylene glycol market.

**Product Development/Innovation:** Detailed insights on upcoming technologies, research & development activities, and new product launches in the ethylene oxide and ethylene glycol market.

**Market Development:** Comprehensive information about lucrative emerging markets — the report analyzes the markets for ethylene oxide and ethylene glycol

market across regions.

**Market Capacity:** Production capacities of companies producing ethylene oxide and ethylene glycol are provided wherever available with upcoming capacities for the ethylene oxide and ethylene glycol market.

**Competitive Assessment:** In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the ethylene oxide and ethylene glycol market.

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