

# **Global Ethylene Oxide Market Size study, by Application (Glycol Ethers, Acrylonitrile, Ethoxylates, Ethanolamines, Healthcare Sterilant, and Others), by End-Use (Chemical Processing, Healthcare, Food and Beverages, Automotive and Others) and Regional Forecasts 2022-2032**

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## **Abstracts**

Global Ethylene Oxide Market is valued approximately USD 33.98 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 3.67% over the forecast period 2024-2032. Ethylene oxide (EtO) also known as oxirane is a colorless, flammable gas with a sweet odor, primarily used in producing chemicals such as ethylene glycol, which is essential for antifreeze and polyester. It is a crucial sterilizing agent for medical equipment and fumigant for spices due to its ability to penetrate materials without damage. Ethylene oxide is extensively utilized in various industries for the production of solvents, detergents, adhesives, antifreeze, textiles, and medicines. Ethylene oxide is also found in fumigants, hospitals for the sterility of surgical equipment, and sterility for spices and cosmetics. The growth in emerging markets is a key trend that is supporting to the growth of the Global Ethylene Oxide Market. Rapid industrialization and urbanization in emerging economies, particularly in Asia-Pacific, are driving demand for ethylene oxide and its derivatives. Countries like China and India are significant contributors to market growth.

Ethylene oxide is a crucial intermediate in the production of ethylene glycol, which is used extensively in antifreeze, polyester fibers, and resins. The increasing demand for these products, particularly in automotive and textile industries, drives ethylene oxide consumption. Also, the Global Ethylene Oxide Market is poised to be fueled due to the rising demand for PET resins and polyester fibers. Ethylene oxide finds extensive use in

industries such as food & beverages and textiles. Polyester fibers are integral to various products such as coated fabrics, seat belts, and conveyor belt fabrics, while PET resins are crucial for manufacturing bottles and containers in the food and beverage sector. The production of PET bottle involves ethylene oxide usage, which meets with the increasing preference for PET bottles among end-users, thereby driving ethylene oxide demand. Additionally, the automotive industry's increasing need for antifreeze, which lowers the freezing point of vehicle liquids, is another growth driver. Furthermore, the rising demand for non-ionic surfactants presents an opportunity for increased ethylene oxide demand globally. However, price volatility and fluctuations in raw material costs and stringent environmental regulations impacting production processes is expected to stifle market growth during the forecast period 2024-2032.

The key regions considered for the global Ethylene Oxide Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, Asia Pacific was the largest regional market in terms of revenue because of the increasing industrialization. Also, the market in Asia Pacific is expected to develop at the fastest rate over the forecast period. The growing population and an expanding middle class is fueling demand for various products such as textiles, automotive parts, packaging materials, and pharmaceuticals are heavily reliant on ethylene oxide. Furthermore, the availability of raw materials, competitive manufacturing costs, and supportive government policies promoting industrial expansion are contributing significantly to market expansion. Additionally, Asia Pacific's strategic position as a one of the leading manufacturing center attracts investments from multinational corporations, fostering technological innovations and infrastructure enhancements, thus driving further growth in the ethylene oxide and ethylene glycol market.

Major market player included in this report are:

BASF SE

China Petrochemical Corporation

Clariant AG

Dow Chemical Company

India Glycols Limited.

LOTTE Chemical Corporation.

LyondellBasell Industries Holdings B.V.

Nippon Shokubai Co., Ltd.

Reliance Industries Limited.

Shell plc

The detailed segments and sub-segment of the market are explained below:

By Application

Glycol Ethers

Acrylonitrile

Ethoxylates

Ethanolamines

Healthcare Sterilent

Others

By End-Use

Chemical Processing

Healthcare

Food and Beverages

Automotive

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

## RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

### Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

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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