

Propylene Glycol Market Anticipated to Expand as Demand for Eco-Friendly and Versatile Chemicals Surges; Expected to Rise at a CAGR of 7.3% from 2025 to 2037

Research Nester has published a report titled "Global [Propylene Glycol Market](#): Supply & Demand Analysis, Market Forecasts & Trends Report 2025-2037," which evaluates the major factors driving market expansion, including growing adoption of eco-friendly antifreeze solutions, increased use in the food and beverage industry, and rising demand for versatile industrial chemicals. The report highlights innovations in bio-based propylene glycol, expanding applications across pharmaceuticals and personal care, and the impact of evolving environmental regulations on the global market.

Expanding Applications Across Key Industries to Propel Market Growth

The propylene glycol market is expected to experience strong growth due to its versatility, which cuts across the automotive, construction, pharmaceuticals, and personal care industries, among others. The increased usage of propylene glycol in antifreeze, de-icing fluids, and unsaturated polyester resins is a major growth factor. The need for pharmaceutical-grade products, especially in developing countries, continues to drive market growth since more consumers seek high-quality products. The shift to bio-based propylene glycol that results from growing environmental awareness and legal requirements presents new market prospects for eco-friendly products. Technological improvements in the manufacturing process are increasing productivity while decreasing the price of propylene glycol. The increasing concern towards green products and services across industries guarantees the steady demand for this chemical, which has multiple uses.

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Key Drivers and Challenges Impacting the Propylene Glycol Market

Growth Drivers:

- Rising demand for eco-friendly and biodegradable antifreeze solutions
- Expanding applications in personal care, cosmetics, and pharmaceuticals
- Increasing production of bio-based propylene glycol driven by sustainability initiatives

Challenges:

- Fluctuations in raw material prices impacting production costs
- Stringent regulatory requirements in specific applications
- Competition from alternative synthetic compounds

The industrial grade segment is expected to control 55.6% of the market share by 2037 due to its application in numerous industrial and manufacturing processes. High purity industrial grade propylene glycol is used in unsaturated polyester resins, functional fluids, and heat transfer fluids, mainly in the automotive and construction industries. Due to its chemical properties it is widely used in refrigeration and defrosting of vehicles and other structures. The increase in the number of infrastructure projects, together with the increasing automotive production increases the demand for this segment. New developments in minimizing the carbon footprint in the manufacturing process of products on the industrial level are also enhancing its market position. The increasing uses of industrial products and systems are driving the search for affordable but high-quality materials such as propylene glycol for industrial use.

North America propylene glycol market is expected to witness a CAGR of 6.5% from 2025-2037 due to the rising demand in the industrial as well as pharmaceutical sectors. In the United States, the increasing automotive production and the development of green construction products are the factors boosting the growth of the market. The other use of propylene glycol is in antifreeze and as an ingredient in environmentally friendly coatings, thus adding to the reasons why it is used. In Canada, the pharmaceutical and personal care industries are the major revenue generators, and increased customer awareness for USP grade products has been driving the market. These strategies of the region to use renewable energy and bio-based materials are in line with the current global trends. Owing to its strong manufacturing potential and core focus on creativity, North America is likely to be a leading region in the global propylene glycol market.

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The competition in the propylene glycol market is high, and the key players are concentrating on sustainability, innovation, and expansion to strengthen their positions. The major market players include Dow, BASF SE, Temix Oleo, INEOS Oxide, Huntsman International, Haike Chemical Group Co., Ltd., Repsol, Shell Plc, ADEKA Corporation, LyondellBasell Industries N.V., and Metadynea LLC due to the global presence and strong production facilities. These firms are also increasing their spending on research and development of bio-based production to address increasing environmental concerns. Joint ventures and acquisitions in emerging markets are helping firms to extend their operations and meet local needs.

Research Nester Analytics is a leading service provider for strategic market research and consulting. We provide unbiased, unparalleled market insights and industry analysis to help industries, conglomerates, and executives make informed decisions regarding future marketing strategy, expansion, and investments. We believe every business can expand its horizon with the right guidance at the right time. Our out-of-the-box thinking helps clients navigate future uncertainties and market dynamics.

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