

Bio-Based Propylene Glycol Market Research Report Information By Application (Solvent, Chemical Intermediates, Unsaturated Polyester Resin, and Antifreeze & Coolant, Others), By End-Use Industry (Transportation, Food & Beverages, Building & Construction, Pharmaceuticals, Cosmetics & Personal Care, and Others), By Region Global Forecast to 2032

Market Report | 2025-02-01 | 167 pages | Market Research Future

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- Single User Price \$4950.00
- Enterprisewide Price \$7250.00

Report description:

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Market Overview

In 2023, the bio-based propylene glycol market was estimated at USD 939.4 million. The Bio-Based Propylene Glycol Market is expected to increase from USD 993.8 million in 2024 to USD 1,970.7 million by 2032, with a compound yearly growth rate (CAGR) of 8.9% over the forecast period.

Bio-based propylene glycol is a sustainable and environmentally beneficial alternative to conventional propylene glycol, which is typically obtained from petroleum. This vegetable-based propylene glycol is created by a catalytic reaction between distilled glycerin and hydrogen. The process begins with the creation of biodiesel, which uses vegetable oils in a transesterification reaction to produce glycerin. This glycerin is then distilled to a purity of 99.7%, after which it is utilized to make bio-based propylene glycol.

The global Bio-Based Propylene Glycol (BioPG) market is primarily driven by rising demand in the food and beverage industry. According to MRFR analysis, the worldwide food additives market (including BioPG) was valued at USD 38.2 billion in 2022 and is expected to rise at a CAGR of 5.60% between 2023 and 2032, reaching USD 62.37 billion by 2032. This growth is being driven by rising demand for natural and organic products, as people become more concerned about the components in their food and prefer

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items free of synthetic chemicals and preservatives. BioPG is utilized as a food ingredient, emulsifier, and humectant in a variety of food products such as baked goods, drinks, and confectionery. Consumers are increasingly choosing natural and organic products, resulting in an increase in demand for BioPG. BioPG is a natural and biodegradable alternative to regular propylene glycol, making it a viable option for food makers seeking to meet the growing demand for natural and organic products.

Market Segment insights

The Bio-Based Propylene Glycol Market is split by application, including solvent, chemical intermediates, unsaturated polyester resin, antifreeze and coolant, and others.

The Bio-Based Propylene Glycol Market is divided into end-use industries, which include transportation, food and drinks, building and construction, pharmaceuticals, cosmetics and personal care, and others.

Regional insights

The Bio-Based Propylene Glycol Market is divided into five regions: North America, Europe, Asia-Pacific, the Middle East and Africa, and South America. In 2023, the Asia Pacific region had the greatest market revenue share of 42.98%, and it is predicted to rise at an 8.98% CAGR from 2024 to 2032. The Asia Pacific bio-based propylene glycol market is expanding due to rising demand for environmentally friendly and sustainable products. Propylene glycol is a versatile chemical with numerous applications, including personal care items, medicines, and industrial operations.

The regular production of soybean oil in China and India ensures a reliable supply chain for bio-based propylene glycol, which promotes market growth and development.

Major Players

Ayas Renewables Inc., Pacific Fluids LLC, Orlen, BASF SE, DOW, The Archer-Daniels-Midland Company, Oleon NV, Global Bio-chem Technology Group Company Limited, CORECHEM Inc., and UPM Biochemicals are among the industry leaders in biopropylene.

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