

Global Bio-Based 1,3-Propanediol Market Growth 2026-2032

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Abstracts

The global Bio-Based 1,3-Propanediol market size is predicted to grow from US\$ 309 million in 2025 to US\$ 595 million in 2032; it is expected to grow at a CAGR of 9.5% from 2026 to 2032.

Bio-Based 1,3-Propanediol (Bio-PDO) is a 100% renewable, corn sugar-derived, biodegradable, and non-toxic liquid used as a sustainable alternative to petroleum-based glycols. Produced via industrial fermentation, it is commonly used in cosmetics as a humectant/solvent, and in industrial applications for polyurethanes, polymers (PTT), and anti-freeze agents. In 2025, global Bio-Based 1,3-Propanediol production reached approximately 91 K MT

Stronger decarbonization and ?renewable content? targets across consumer brands and chemical buyers are a primary driver for bio-based 1,3-propanediol (bio-PDO). Companies are increasingly selecting ingredients and intermediates that can help them meet Scope 3 and product-footprint goals, and bio-PDO is attractive because it can serve as a direct substitute for petro-based glycols in many formulations and polymer routes. In markets where sustainability claims influence purchasing (home & personal care, textiles, packaging), switching to bio-PDO can be a relatively straightforward way to improve a product?s renewable profile without redesigning the entire formulation or manufacturing process.

A second driver is bio-PDO?s role as a platform building block for bio-based polymers, especially polytrimethylene terephthalate (PTT) and related materials that benefit from PDO?s performance attributes. When downstream customers want fibers and materials positioned as ?partially bio-based? (e.g., carpets, apparel textiles, some engineering applications), demand rises for renewable monomers that preserve or improve

performance. Bio-PDO supports this trend by enabling producers to offer differentiated polymer grades that align with sustainability labeling and brand commitments while maintaining properties such as resilience and softness.

Finally, growth in clean-label and performance-focused personal care is boosting bio-PDO adoption. Formulators use PDO as a humectant/solvent and for sensorial improvements, and bio-based sourcing fits well with "naturally derived" positioning strategies. As regulations and retailer standards push brands toward simpler, more transparent ingredient stories while still demanding high performance, bio-PDO benefits from being both functional (helping solubilize actives and enhance skin feel) and compatible with marketing claims around renewable sourcing and reduced environmental impact.

LP Information, Inc. (LPI)'s newest research report, the "Bio-Based 1,3-Propanediol Industry Forecast" looks at past sales and reviews total world Bio-Based 1,3-Propanediol sales in 2025, providing a comprehensive analysis by region and market sector of projected Bio-Based 1,3-Propanediol sales for 2026 through 2032. With Bio-Based 1,3-Propanediol sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Bio-Based 1,3-Propanediol industry.

This Insight Report provides a comprehensive analysis of the global Bio-Based 1,3-Propanediol landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Bio-Based 1,3-Propanediol portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Bio-Based 1,3-Propanediol market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Bio-Based 1,3-Propanediol and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Bio-Based 1,3-Propanediol.

This report presents a comprehensive overview, market shares, and growth opportunities of Bio-Based 1,3-Propanediol market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Industrial Grade

Daily Chemical and Pharmaceutical Grade

Segmentation by Process:

Glycerin Method

Sugar Method

Segmentation by Channel:

Direct Selling

Distribution

Segmentation by Application:

PTT and Polyester

Cosmetics

Food & Medicine

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Primient Covation

Dongfang Shenghong

Qingda Zhixing

Huaheng Biotechnology

Guangdong Hengtan Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Bio-Based 1,3-Propanediol market?

What factors are driving Bio-Based 1,3-Propanediol market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Bio-Based 1,3-Propanediol market opportunities vary by end market size?

How does Bio-Based 1,3-Propanediol break out by Type, by Application?

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