

Global Bio-Based 1,3-Propanediol Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bio-Based 1,3-Propanediol market size is expected to reach \$ 607 million by 2032, rising at a market growth of 9.0% CAGR during the forecast period (2026-2032).

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.

This report studies the global Bio-Based 1,3-Propanediol production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bio-Based 1,3-Propanediol and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Bio-Based 1,3-Propanediol that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Bio-Based 1,3-Propanediol total production and demand, 2021-2032, (Kilotons)

Global Bio-Based 1,3-Propanediol total production value, 2021-2032, (USD Million)

Global Bio-Based 1,3-Propanediol production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Bio-Based 1,3-Propanediol consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Bio-Based 1,3-Propanediol domestic production, consumption, key domestic manufacturers and share

Global Bio-Based 1,3-Propanediol production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Bio-Based 1,3-Propanediol production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Bio-Based 1,3-Propanediol production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Bio-Based 1,3-Propanediol market based on the following parameters - company overview, production, value, price, gross margin,

product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Primient Covation, Dongfang Shenghong, Qingda Zhixing, Huaheng Biotechnology, Guangdong Hengtan Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Bio-Based 1,3-Propanediol market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Bio-Based 1,3-Propanediol Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bio-Based 1,3-Propanediol Market, Segmentation by Type:

Industrial Grade

Daily Chemical and Pharmaceutical Grade

Global Bio-Based 1,3-Propanediol Market, Segmentation by Process:

Glycerin Method

Sugar Method

Global Bio-Based 1,3-Propanediol Market, Segmentation by Channel:

Direct Selling

Distribution

Global Bio-Based 1,3-Propanediol Market, Segmentation by Application:

PTT and Polyester

Cosmetics

Food & Medicine

Other

Companies Profiled:

Primient Covation

Dongfang Shenghong

Qingda Zhixing

Huaheng Biotechnology

Guangdong Hengtan Technology

Key Questions Answered:

1. How big is the global Bio-Based 1,3-Propanediol market?
2. What is the demand of the global Bio-Based 1,3-Propanediol market?
3. What is the year over year growth of the global Bio-Based 1,3-Propanediol market?
4. What is the production and production value of the global Bio-Based 1,3-Propanediol market?
5. Who are the key producers in the global Bio-Based 1,3-Propanediol market?
6. What are the growth factors driving the market demand?

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