

Global 1,3-Propanediol (PDO) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 1,3-Propanediol (PDO) market size is expected to reach \$ 672 million by 2032, rising at a market growth of 9.2% CAGR during the forecast period (2026-2032).

1,3-Propanediol (1,3-PDO) is a bifunctional organic compound with chemical formula $\text{OHCH}_2\text{CH}_2\text{CH}_2\text{OH}$. 1,3-PDO is a building block chemical that can be used in the preparation of the bio-based polymer polytrimethylene and in the production of adhesives, paints, resins and coatings.

In 2025, global 1,3-Propanediol (PDO) production reached approximately 91 K MT.

Demand for bio-based and sustainable chemicals is a major driver for the 1,3-Propanediol (PDO) market. Many brand owners are tightening sustainability goals and looking to reduce the carbon footprint of everyday products, which increases interest in PDO produced from renewable feedstocks (often branded as 'bio-PDO'). This shift is especially strong in consumer-facing categories where 'plant-based' or 'lower-emissions' claims influence purchasing decisions, and where manufacturers want drop-in ingredients that don't require major process changes.

A second key driver is PDO's expanding use in polytrimethylene terephthalate (PTT) polyester production. PDO is a core building block for PTT, which is valued for properties like resilience, softness, and stain resistance—important in carpets, textiles, and certain engineering plastics. When downstream demand rises for durable, comfort-oriented fibers and materials, it pulls more PDO through the value chain, especially in regions investing in modern textile and flooring capacity.

Finally, PDO consumption is supported by growth in personal care, cosmetics, and

functional fluids where PDO acts as a humectant, solvent, viscosity modifier, and performance booster. Formulators often choose PDO to improve skin feel, enhance preservation efficacy (as part of a system), and help dissolve actives?making it useful across skin care, hair care, and hygiene products. As these end markets broaden?particularly premium and ?cleaner-label? formulations?PDO demand tends to rise because it offers a balance of performance, formulation flexibility, and compatibility with a wide range of ingredients.

This report studies the global 1,3-Propanediol (PDO) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 1,3-Propanediol (PDO) 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 1,3-Propanediol (PDO) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 1,3-Propanediol (PDO) total production and demand, 2021-2032, (K MT)

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

Global 1,3-Propanediol (PDO) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global 1,3-Propanediol (PDO) consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: 1,3-Propanediol (PDO) domestic production, consumption, key domestic manufacturers and share

Global 1,3-Propanediol (PDO) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global 1,3-Propanediol (PDO) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global 1,3-Propanediol (PDO) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global 1,3-Propanediol (PDO) 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, Juhua, 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 1,3-Propanediol (PDO) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) 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 1,3-Propanediol (PDO) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 1,3-Propanediol (PDO) Market, Segmentation by Type:

Technical Grade PDO

Pharmaceutical Grade PDO

Global 1,3-Propanediol (PDO) Market, Segmentation by Process:

Chemical Method

Biological Method

Global 1,3-Propanediol (PDO) Market, Segmentation by Channel:

Direct Selling

Distribution

Global 1,3-Propanediol (PDO) Market, Segmentation by Application:

PTT&Polyurethane

Food&Pharmaceutical

Cosmetic

Other

Companies Profiled:

Primient Covation

Dongfang Shenghong

Qingda Zhixing

Huaheng Biotechnology

Guangdong Hengtan Technology

Juhua

Key Questions Answered:

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

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