

Global Bio-Based 1,3-Propanediol Competitive Landscape Professional Research Report 2025

<https://marketpublishers.com/r/B0EB743E8099EN.html>

Date: June 2025

Pages: 165

Price: US\$ 3,500.00 (Single User License)

ID: B0EB743E8099EN

Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Bio-Based 1,3-Propanediol market size will reach 1,081.44 Million USD in 2025 and is projected to reach 4,720.06 Million USD by 2032, with a CAGR of 23.43% (2025-2032). Notably, the China Bio-Based 1,3-Propanediol market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Bio-based 1,3-propanediol (PDO) is a renewable chemical compound derived from biomass sources such as plant sugars or agricultural waste. It is an organic compound with the chemical formula $C_3H_8O_2$ and is commonly used as a building block in the production of various polymers, including polytrimethylene terephthalate (PTT), polyurethane, and polyester resins. Bio-based PDO is typically produced through fermentation processes using microorganisms such as bacteria or yeast to convert sugars into 1,3-propanediol. Compared to petroleum-based PDO, bio-based PDO offers several environmental benefits, including reduced carbon footprint, decreased dependency on fossil fuels, and potential biodegradability. It finds applications in industries such as textiles, packaging, automotive, and personal care products, where its properties of durability, flexibility, and sustainability are desirable. As interest in sustainable alternatives to petroleum-based chemicals grows, bio-based PDO represents a promising option for reducing the environmental impact of various industrial processes.

The major global manufacturers of Bio-Based 1,3-Propanediol include Huafeng Group (DuPont), Tsing Da Zhi Xing, Zhangjiagang Meirong Chemical Industry Co., Ltd., Jiangsu Shenghong (Suzhou Suzhen Biological Engineering Co., Ltd.), etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Bio-Based 1,3-Propanediol. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Bio-Based 1,3-Propanediol market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Bio-Based 1,3-Propanediol market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Bio-Based 1,3-Propanediol industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Bio-Based 1,3-Propanediol Include:

Huafeng Group (DuPont)

Tsing Da Zhi Xing

Zhangjiagang Meirong Chemical Industry Co., Ltd.

Jiangsu Shenghong (Suzhou Suzhen Biological Engineering Co., Ltd.)

Bio-Based 1,3-Propanediol Product Segment Include:

Glucose Conversion

Biodiesel Conversion

Bio-Based 1,3-Propanediol Product Application Include:

PTT Polyester

Cosmetic

Pharmaceutical

Others

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