

1,4-Butanediol Market - Global Industry Size, Share, Trends, Opportunity & Forecast, Segmented By Derivative (Tetrahydrofuran (THF), Polybutylene Terephthalate (PBT), Gamma-Butyrolactone (GBL), Polyurethane (PU), Others), By End User (Automotive, Healthcare and Pharmaceuticals, Textile, Electrical and Electronics, Others), By Region & Competition, 2020-2030F

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Abstracts

Market Overview

The Global 1,4-Butanediol Market was valued at USD 7.32 Billion in 2024 and is projected to reach USD 9.46 Billion by 2030, growing at a CAGR of 4.32% during the forecast period. The market is witnessing steady growth driven by the widespread application of 1,4-Butanediol (BDO) derivatives such as tetrahydrofuran (THF), polybutylene terephthalate (PBT), and polyurethane (PU) in industrial manufacturing processes. Increasing demand for spandex in the textile sector has also significantly supported this upward trajectory. The Reppe process, used by key players like BASF and DuPont, remains a predominant method for BDO production and reflects a broader industry shift toward vertical integration to optimize raw material sourcing and cost-efficiency. Furthermore, the rising adoption of bio-based production methods is expected to boost growth in the coming years. Companies such as BioAmber, Genomatica, and Myriant are investing in sustainable BDO technologies, aligning market development with global green chemistry initiatives and regulatory pressures for eco-friendly manufacturing.

Key Market Drivers

Growing Demand of 1,4-Butanediol from Automotive Industry

The automotive industry's demand for lightweight, high-performance materials is a major growth driver for the BDO market. 1,4-Butanediol is a core raw material in producing polybutylene terephthalate (PBT) and polyurethane (PU), both widely used in vehicle components due to their durability, heat resistance, and chemical stability. Regulatory mandates targeting emissions and fuel efficiency have intensified the use of engineering plastics in automotive design. Additionally, BDO contributes to the manufacture of thermoplastic copolyester elastomers, offering flexibility and resilience in automotive applications. As a result, BDO-derived polymers are increasingly being adopted in car bumpers, brake systems, and under-the-hood parts, supporting growth across the automotive value chain.

Key Market Challenges

Volatility in Price of Raw Materials

Fluctuating raw material costs pose a persistent challenge for the 1,4-Butanediol market. BDO production relies heavily on feedstocks like acetylene and butadiene, whose prices are subject to changes in crude oil markets, global demand patterns, and geopolitical factors. This price volatility affects production planning and profit margins for manufacturers. Rising feedstock prices can also lead to increased BDO costs, potentially discouraging downstream industries from relying on BDO-based materials. These cost fluctuations create uncertainty and complexity in the supply chain, making it essential for manufacturers to adopt risk-mitigation strategies, diversify sourcing, and invest in process innovation to manage operational efficiency.

Key Market Trends

Growing Demand of 1,4-Butanediol in Polymers

The increasing use of 1,4-Butanediol in polymer production is a notable trend driving market growth. BDO is a key precursor for tetrahydrofuran (THF) and polybutylene terephthalate (PBT), both of which are vital in producing spandex fibers and engineering plastics. These polymers are integral to industries such as automotive, electronics, and textiles due to their performance attributes, including strength, flexibility, and resistance to heat and wear. As consumer and industrial demands evolve toward more advanced

and sustainable materials, the role of BDO in enabling high-performance polymer applications is expanding. This trend is also encouraging research and development into improved synthesis methods and the creation of BDO derivatives tailored for specific industrial uses.

Key Market Players

Ashland Inc.

LyondellBasell Industries Holdings BV

Mitsubishi Chemical Corporation

NAN YA PLASTICS CORPORATION

SINOPEC YIZHENG CHEMICAL FIBRE LIMITED LIABILITY COMPANY

Shanxi Sanwei Group Co. Ltd

Report Scope:

In this report, the Global 1,4-Butanediol Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

1,4-Butanediol Market, By Derivative:

Tetrahydrofuran (THF)

Polybutylene Terephthalate (PBT)

Gamma-Butyrolactone (GBL)

Polyurethane (PU)

Others

1,4-Butanediol Market, By End User:

Automotive

Healthcare and Pharmaceuticals

Textile

Electrical and Electronics

Others

1,4-Butanediol Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global 1,4-Butanediol Market.

Available Customizations:

Global 1,4-Butanediol Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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