

Global 1,4 Butanediol Derivatives Market Size Study, by Derivative Type (1,4-butanediol, Tetrahydrofuran, Gamma-butyrolactone, Polybutylene succinate, Butanediol-based solvents), by Application (Textiles, Automotive, Pharmaceuticals, Cosmetics, Plastics), by Functionality (Solvents, Intermediate Chemicals, Plasticizers, Additives), by End User Industry (Chemical Manufacturing, Consumer Goods, Automotive Industry, Healthcare, Textile Industry), and Regional Forecasts 2022-2032

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Abstracts

The Global 1,4 Butanediol Derivatives Market is valued at approximately USD 5.72 billion in 2023 and is poised to experience robust growth with a compound annual growth rate (CAGR) of 3.94% over the forecast period from 2024 to 2032. The market revolves around the derivatives of 1,4 Butanediol (BDO), which serve as essential intermediates in producing advanced materials like polybutylene terephthalate, spandex, and thermoplastic polyurethanes. These derivatives play a critical role across various industries, including automotive, textiles, and healthcare, by enhancing product performance and functionality.

The upward trajectory of the market is driven by increasing demand for sustainable and high-performance materials in industries like textiles and automotive. BDO derivatives are widely employed in manufacturing eco-friendly solutions, replacing traditional plastics with biodegradable alternatives such as polybutylene succinate. This aligns with global environmental mandates and the industry's commitment to reducing carbon

footprints. Moreover, advancements in processing technologies are fostering the efficient production of derivatives like gamma-butyrolactone and tetrahydrofuran, expanding their applications in pharmaceuticals and specialty chemicals.

The automotive industry has emerged as a major consumer of BDO derivatives, leveraging their utility in producing lightweight and durable materials for vehicle interiors and exteriors. With the global shift towards electric vehicles (EVs), the demand for innovative polymer solutions derived from BDO has surged. Concurrently, the healthcare and pharmaceutical sectors are integrating BDO-based solutions for drug delivery systems and medical equipment, further reinforcing market growth. However, market expansion is somewhat restrained by fluctuating raw material prices and the complex nature of BDO derivative production processes.

Regionally, North America commands a significant share of the 1,4 Butanediol Derivatives Market, driven by a well-established chemical manufacturing infrastructure and high adoption of advanced materials in the automotive and healthcare sectors. Meanwhile, Europe showcases rapid advancements in sustainable materials, supported by stringent environmental regulations and investments in research and development. The Asia-Pacific region is projected to witness the fastest growth during the forecast period, attributed to its burgeoning textile and automotive industries and increasing industrialization in countries like China and India.

Major market players included in this report are:

BASF SE

Mitsubishi Chemical Corporation

Ashland Global Holdings Inc.

INVISTA

SK Global Chemical Co., Ltd.

LyondellBasell Industries N.V.

Daicel Corporation

Genomatica, Inc.

Toray Industries, Inc.

Dairen Chemical Corporation

Kuraray Co., Ltd.

China National BlueStar (Group) Co., Ltd.

Sipchem (Saudi International Petrochemical Company)

Chang Chun Group

Nan Ya Plastics Corporation

The detailed segments and sub-segment of the market are explained below:

By Derivative Type

1,4-butanediol

Tetrahydrofuran

Gamma-butyrolactone

Polybutylene succinate

Butanediol-based solvents

By Application

Textiles

Automotive

Pharmaceuticals

Cosmetics

Plastics

By Functionality

Solvents

Intermediate Chemicals

Plasticizers

Additives

By End User Industry

Chemical Manufacturing

Consumer Goods

Automotive Industry

Healthcare

Textile Industry

By Region

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia-Pacific

China

India

Japan

Australia

South Korea

Rest of Asia-Pacific

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market estimates & forecasts for 10 years, from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Comprehensive geographical landscape with country-level analysis of major regions.

Competitive landscape with detailed insights on major market players.

Strategic recommendations for businesses to navigate the competitive environment.

Analysis of demand-side and supply-side market dynamics.

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