

1,4 Butanediol Derivatives Market Size, Share & Trends Analysis Report By Product By Application (THF, GBL, Spandex, PBT, PTMEG, NMP, NVP, PVP, PBS, PBAT), By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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1,4 Butanediol Derivatives Market Growth & Trends

The global 1,4 butanediol derivatives market size is expected to reach USD 47,871.3 million by 2030, registering a CAGR of 7.7% over the forecast period, as per the new report by Grand View Research, Inc. The growth of the market is driven by the increasing application of polybutylene terephthalate (PBT) and tetrahydrofuran (THF) in different end-use industries, including clothing, medical, solvent, electronics, and automobiles. Derivatives of 1,4-butanediol (BDO), including THF, are an intermediate in synthesizing various chemicals and compounds. It is used as a starting material or a reaction medium in agrochemicals, manufacturing pharmaceuticals, and specialty chemicals. It is majorly used as a Grignard reagent for synthesizing butyrolactone and succinic acid. Thus, the growing chemical industry is expected to drive the demand for 1,4-butanediol.

Derivative Gamma-butyrolactone, commonly called GBL, is a versatile chemical used in the electronics, pharmaceuticals, and polymer industries. GBL serves as a solvent for cleaning electronic components and circuit boards in the electronics industry. It is also vital in the production of lithium-ion batteries and flat-screen displays. In addition, in the pharmaceutical industry, GBL is used to produce various medicines, including diuretics and antidepressants. According to the Germany Trade & Invest, the electronics

sector in Germany accounted for USD 195.79 billion, contributing 13% of the country's GDP, with electronic exports accounting for 13% of the total German exports in 2021. The growing electronics industry will likely boost the demand for polytetramethylene ether glycols (PTMEG), used in the production of elastomers, spandex fibers, and adhesives, all of which have applications in the electronics industry.

This is expected to boost the demand for BDO over the forecast period. Health concerns associated with BDO derivatives are a major challenge faced by product manufacturers. Moreover, the environmental impact of BDO derivatives is further promoting the industry players' development and acceptance of bio-based BDO derivatives. However, switching from conventional production methods to bio-based requires huge setup costs and research. The production of bio-based BDO derivatives presents a significant opportunity for the market as it reduces the dependency on conventional oil-based resources. The increasing applications of THF and PBT are expected to boost the demand for bio-based BDO derivatives in the coming years.

1,4 Butanediol Derivatives Market Report Highlights

The spandex segment accounted for the largest revenue market share, 23.4%, in 2024 and is expected to continue to dominate the industry over the forecast period.

Polytetramethylene ether glycol (PTMEG) is a linear, long-chain polyether glycol developed through tetrahydrofuran (THF) polymerization.

The 1,4 butanediol derivatives market in Asia Pacific is witnessing growth backed by surging automotive, construction, and electronics industries in countries such as China, India, and Japan, which are major contributors to the demand for BDO.

This growth can be attributed to the rise in construction activities, rapid growth in automobile production, and high foreign investments in the region.

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
 - 1.3.1. Information Analysis
 - 1.3.2. Market Formulation & Data Visualization
 - 1.3.3. Data Validation & Publishing
- 1.4. Research Scope and Assumptions
 - 1.4.1. List of Data Sources

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Snapshot
- 2.2. Segmental Outlook
- 2.3. Competitive Outlook

CHAPTER 3. MARKET VARIABLES, TRENDS, AND SCOPE

- 3.1. Global 1-4 Butanediol Derivatives Market Outlook
- 3.2. Value Chain Analysis
 - 3.2.1. Manufacturing & Technology Outlook
 - 3.2.1.1. THF
 - 3.2.1.2. GBL
 - 3.2.1.3. PBT
 - 3.2.1.4. PTMEG
 - 3.2.1.5. NMP
 - 3.2.1.6. NVP
 - 3.2.1.7. PVP
 - 3.2.1.8. PBS
 - 3.2.1.9. PBAT
 - 3.2.1.10. TPU
 - 3.2.1.11. 2PY
 - 3.2.2. Sales Channel Analysis
 - 3.2.3. List of Potential End Users
- 3.3. Price Trend Analysis
- 3.4. Regulatory Framework

- 3.4.1. Standards & Compliances
- 3.5. Market Dynamics
 - 3.5.1. Market Driver Analysis
 - 3.5.2. Market Restraint Analysis
 - 3.5.3. Market Challenges Analysis
 - 3.5.4. Market Opportunity Analysis
- 3.6. Porter's Five Forces Analysis
 - 3.6.1. Bargaining Power of Suppliers
 - 3.6.2. Bargaining Power of Buyers
 - 3.6.3. Threat of Substitution
 - 3.6.4. Threat of New Entrants
 - 3.6.5. Competitive Rivalry
- 3.7. PESTLE Analysis
 - 3.7.1. Political
 - 3.7.2. Economics
 - 3.7.3. Social Landscape
 - 3.7.4. Technology
 - 3.7.5. Environmental
 - 3.7.6. Legal

CHAPTER 4. 1-4 BUTANEDIOL DERIVATIVES MARKET: PRODUCT BY APPLICATION ESTIMATES & TREND ANALYSIS

- 4.1. 1-4 Butanediol Derivatives Market: Product by Application Movement Analysis, 2023 & 2030
- 4.2. Tetrahydrofuran (THF)
 - 4.2.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)
- 4.3. γ-Butyrolactone (GBL)
 - 4.3.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)
- 4.4. Polybutylene Terephthalate (PBT)
 - 4.4.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)
- 4.5. Spandex
 - 4.5.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)
- 4.6. PTMEG
 - 4.6.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)
- 4.7. NMP
 - 4.7.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)
- 4.8. NVP
 - 4.8.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

4.9. PVP

4.9.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

4.10. PBS

4.10.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

4.11. PBAT

4.11.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

4.12. TPU

4.12.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

4.13. 2 PY

4.13.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

CHAPTER 5. 1-4 BUTANEDIOL DERIVATIVES MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

5.1. Regional Analysis, 2023 & 2030

5.2. North America

5.2.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.2.2. Market estimates and forecasts, by product by application, 2018 - 2030
(Kilotons) (USD Million)

5.2.3. U.S.

5.2.3.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.2.3.2. Market estimates and forecasts, by product by application, 2018 - 2030
(Kilotons) (USD Million)

5.2.4. Canada

5.2.4.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.2.4.2. Market estimates and forecasts, by product by application, 2018 - 2030
(Kilotons) (USD Million)

5.2.5. Mexico

5.2.5.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.2.5.2. Market estimates and forecasts, by product by application, 2018 - 2030
(Kilotons) (USD Million)

5.3. Europe

5.3.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.3.2. Market estimates and forecasts, by product by application, 2018 - 2030
(Kilotons) (USD Million)

5.3.3. Germany

5.3.3.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.3.3.2. Market estimates and forecasts, by product by application, 2018 - 2030
(Kilotons) (USD Million)

5.3.4. UK

5.3.4.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.3.4.2. Market estimates and forecasts, by product by application, 2018 - 2030 (Kilotons) (USD Million)

5.3.5. France

5.3.5.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.3.5.2. Market estimates and forecasts, by product by application, 2018 - 2030 (Kilotons) (USD Million)

5.3.6. Italy

5.3.6.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.3.6.2. Market estimates and forecasts, by product by application, 2018 - 2030 (Kilotons) (USD Million)

5.3.7. Spain

5.3.7.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.3.7.2. Market estimates and forecasts, by product by application, 2018 - 2030 (Kilotons) (USD Million)

5.3.8. Netherlands

5.3.8.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.3.8.2. Market estimates and forecasts, by product by application, 2018 - 2030 (Kilotons) (USD Million)

5.3.9. Russia

5.3.9.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.3.9.2. Market estimates and forecasts, by product by application, 2018 - 2030 (Kilotons) (USD Million)

5.4. Asia Pacific

5.4.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.4.2. Market estimates and forecasts, by product by application, 2018 - 2030 (Kilotons) (USD Million)

5.4.3. China

5.4.3.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.4.3.2. Market estimates and forecasts, by product by application, 2018 - 2030 (Kilotons) (USD Million)

5.4.4. India

5.4.4.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.4.4.2. Market estimates and forecasts, by product by application, 2018 - 2030 (Kilotons) (USD Million)

5.4.5. Japan

5.4.5.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.4.5.2. Market estimates and forecasts, by product by application, 2018 - 2030

(Kilotons) (USD Million)

5.4.6. South Korea

5.4.6.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.4.6.2. Market estimates and forecasts, by product by application, 2018 - 2030

(Kilotons) (USD Million)

5.4.7. Australia

5.4.7.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.4.7.2. Market estimates and forecasts, by product by application, 2018 - 2030

(Kilotons) (USD Million)

5.4.8. Vietnam

5.4.8.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.4.8.2. Market estimates and forecasts, by product by application, 2018 - 2030

(Kilotons) (USD Million)

5.5. Latin America

5.5.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.5.2. Market estimates and forecasts, by product by application, 2018 - 2030

(Kilotons) (USD Million)

5.5.3. Brazil

5.5.3.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.5.3.2. Market estimates and forecasts, by product by application, 2018 - 2030

(Kilotons) (USD Million)

5.5.4. Argentina

5.5.4.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.5.4.2. Market estimates and forecasts, by product by application, 2018 - 2030

(Kilotons) (USD Million)

5.6. Middle East & Africa

5.6.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.6.2. Market estimates and forecasts, by product by application, 2018 - 2030

(Kilotons) (USD Million)

5.6.3. Saudi Arabia

5.6.3.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.6.3.2. Market estimates and forecasts, by product by application, 2018 - 2030

(Kilotons) (USD Million)

5.6.4. South Africa

5.6.4.1. Market estimates and forecasts, 2018 - 2030 (Kilotons) (USD Million)

5.6.4.2. Market estimates and forecasts, by product by application, 2018 - 2030

(Kilotons) (USD Million)

CHAPTER 6. COMPETITIVE LANDSCAPE

6.1. Recent Developments by Key Market Participants

6.2. Company Categorization

6.3. Company Heat Map Analysis

6.4. Strategy Mapping

6.5. Company Profiles/Listing

6.5.1. BASF SE

6.5.1.1. Company Overview

6.5.1.2. Financial Performance

6.5.1.3. Product Benchmarking

6.5.2. Ashland

6.5.2.1. Company Overview

6.5.2.2. Financial Performance

6.5.2.3. Product Benchmarking

6.5.3. DCC

6.5.3.1. Company Overview

6.5.3.2. Financial Performance

6.5.3.3. Product Benchmarking

6.5.4. Mitsubishi Chemical Group Corporation

6.5.4.1. Company Overview

6.5.4.2. Financial Performance

6.5.4.3. Product Benchmarking

6.5.5. Evonik Industries AG

6.5.5.1. Company Overview

6.5.5.2. Financial Performance

6.5.5.3. Product Benchmarking

6.5.6. LyondellBasell Industries Holdings B.V.

6.5.6.1. Company Overview

6.5.6.2. Financial Performance

6.5.6.3. Product Benchmarking

6.5.7. Sipchem Company

6.5.7.1. Company Overview

6.5.7.2. Financial Performance

6.5.7.3. Product Benchmarking

6.5.8. SINOPEC (China Petrochemical Corporation)

6.5.8.1. Company Overview

6.5.8.2. Financial Performance

6.5.8.3. Product Benchmarking

6.5.9. Genomatica, Inc.

- 6.5.9.1. Company Overview
- 6.5.9.2. Financial Performance
- 6.5.9.3. Product Benchmarking

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