

Global Bio-Butadiene Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bio-Butadiene market size is expected to reach \$ 323 million by 2032, rising at a market growth of 98.9% CAGR during the forecast period (2026-2032).

Bio-Butadiene is obtained by a proprietary fermentation process from non-alimentary, renewable resources (biomass), for multiple applications, with low Carbon Footprint. At present, Bio-Butadiene is still in the laboratory stage and has not yet achieved commercial production.

The bio-butadiene market refers to the emerging industry segment focused on producing 1,3-butadiene—traditionally a petroleum-derived monomer—using renewable biological feedstocks, such as fermented sugars, lignocellulosic materials, or bio-ethanol. As demand rises for sustainable alternatives to petrochemical products, bio-butadiene is gaining attention in industries including synthetic rubbers, elastomers, and performance polymers used in tires, industrial belts, hoses, and specialty thermoplastics. Its renewable origin and lower carbon footprint help manufacturers meet corporate sustainability goals and respond to growing regulatory and consumer expectations around greener materials.

Interest in the bio-butadiene market is fueled by advancements in biotechnology, microbial fermentation, and process engineering that are improving conversion efficiencies and reducing production costs. Leading participants are experimenting with novel biocatalysts and integrated biorefinery platforms to scale up economically viable bio-butadiene. However, challenges remain, including the need for further cost reduction, competition from low-cost fossil-derived butadiene, and complexity in adapting existing polymer production infrastructure. Continued investments and research into feedstock sourcing, downstream integration, and policy support—including

carbon pricing or renewable mandates?are key to accelerating broader adoption of bio?butadiene. Let me know if you?d like insight into specific players, feedstocks, or application segments.

This report studies the global Bio-Butadiene demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bio-Butadiene, 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 Bio-Butadiene that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Bio-Butadiene total market, 2021-2032, (USD Million)

Global Bio-Butadiene total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Bio-Butadiene total market, key domestic companies, and share, (USD Million)

Global Bio-Butadiene revenue by player, revenue and market share 2021-2026, (USD Million)

Global Bio-Butadiene total market by Type, CAGR, 2021-2032, (USD Million)

Global Bio-Butadiene total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Bio-Butadiene market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Braskem, Genomatica & Versalis, Biokemik(Biosyncaucho), LanzaTech & Invista, Synthos, 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 Bio-Butadiene market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Bio-Butadiene Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bio-Butadiene Market, Segmentation by Type:

One Step Method

Multi-Step Method

Global Bio-Butadiene Market, Segmentation by Application:

Synthetic Rubber

Thermo-plastic Elastomers

Fine Chemicals

Nylon

Styrenic Plastics

Epoxy Resins

Others

Companies Profiled:

Braskem

Genomatica & Versalis

Biokemik(Biosyncaucho)

LanzaTech & Invista

Synthos

Key Questions Answered

1. How big is the global Bio-Butadiene market?
2. What is the demand of the global Bio-Butadiene market?
3. What is the year over year growth of the global Bio-Butadiene market?
4. What is the total value of the global Bio-Butadiene market?
5. Who are the Major Players in the global Bio-Butadiene market?
6. What are the growth factors driving the market demand?

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