

Global Industrial Grade 1,3-Butanediol Market Growth 2026-2032

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Abstracts

The global Industrial Grade 1,3-Butanediol market size is predicted to grow from US\$ 25.03 million in 2025 to US\$ 37 million in 2032; it is expected to grow at a CAGR of 5.9% from 2026 to 2032.

Industrial-grade 1,3-butanediol, also referred to as butane-1,3-diol, is a diol compound widely used in industrial and manufacturing processes, it is a colorless, water-soluble, and low-volatility liquid that possesses two hydroxyl groups, giving it unique properties such as excellent hygroscopicity, stability, and compatibility with various chemical systems.

In its industrial-grade form, 1,3-butanediol is tailored for large-scale applications where purity and precision specifications are slightly relaxed compared to pharmaceutical or cosmetic grades. This makes it a cost-effective solution for industries like plastics, resins, coatings, textiles, and adhesives, where the compound acts as a versatile intermediate or additive.

Industrial-grade 1,3-butanediol is typically produced through chemical synthesis methods, such as catalytic hydrogenation of acetaldehyde or butadiene, as well as through biotechnological processes like microbial fermentation. The rise of environmentally conscious manufacturing has brought attention to sustainable production routes for this compound, which align with global industrial trends toward reducing carbon footprints and adopting greener technologies.

The versatility of industrial-grade 1,3-butanediol ensures its application in a wide range of industries, from plastics and coatings to textiles and adhesives. As these industries continue to grow, particularly in emerging economies, the demand for 1,3-butanediol is

expected to rise correspondingly.

The growing need for lightweight, durable, and flexible materials in automotive, aerospace, and construction sectors has led to increased adoption of 1,3-butanediol in polymer manufacturing. Its role as a key intermediate in producing high-performance polyurethanes and resins underscores its significance in these industries.

Geographically, the market is distributed globally, with key regions including North America, Europe, Asia-Pacific, and the Middle East. Asia-Pacific dominates the market due to its well-established industrial base and the presence of key manufacturing hubs in countries like China, India, and South Korea. North America and Europe also hold significant shares, driven by advancements in industrial technologies and the demand for high-quality intermediate chemicals. The China accounts about 40% share of the global consumption, followed by North Americas (28%) and Europe (20%) in 2024.

The scope of the industrial-grade 1,3-butanediol market extends to its use as a chemical building block in polymer production, a solvent in coatings and adhesives, and an intermediate in the synthesis of specialty chemicals. Its adaptability to various applications positions it as a critical material in industrial innovation and sustainability initiatives.

The industrial-grade 1,3-butanediol market is poised for significant growth as industries continue to innovate and expand their applications of this versatile compound. The rise of bio-based and sustainable production methods will play a critical role in shaping the market's future, offering opportunities for environmentally conscious manufacturers to gain a competitive edge.

Emerging economies are expected to drive much of the growth, with increased demand for industrial goods and infrastructure development fueling consumption. Additionally, advancements in polymer and coating technologies will create new avenues for 1,3-butanediol applications, further enhancing its market potential.

In conclusion, the industrial-grade 1,3-butanediol market represents a dynamic and evolving segment with immense opportunities for growth. Its multifunctional properties, coupled with global trends toward industrial innovation and sustainability, ensure its continued relevance and importance in modern manufacturing.

LP Information, Inc. (LPI) ' newest research report, the "Industrial Grade 1,3-Butanediol Industry Forecast" looks at past sales and reviews total world Industrial Grade

1,3-Butanediol sales in 2025, providing a comprehensive analysis by region and market sector of projected Industrial Grade 1,3-Butanediol sales for 2026 through 2032. With Industrial Grade 1,3-Butanediol sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Industrial Grade 1,3-Butanediol industry.

This Insight Report provides a comprehensive analysis of the global Industrial Grade 1,3-Butanediol landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Industrial Grade 1,3-Butanediol portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Industrial Grade 1,3-Butanediol market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Industrial Grade 1,3-Butanediol and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Industrial Grade 1,3-Butanediol.

This report presents a comprehensive overview, market shares, and growth opportunities of Industrial Grade 1,3-Butanediol market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Chemical Synthesis

Fermentation

Segmentation by Application:

Polymer and Resin Manufacturing

Coatings and Adhesives

Textiles and Fibers

Industrial Solvents and Additives

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

OQ Chemicals

DAICEL

KH Neochem

Godavari Biorefineries

Genomatica

Dongying Hi-tech Spring Chemical

Resonac

KOKYU ALCOHOL KOGYO (HAI)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Industrial Grade 1,3-Butanediol market?

What factors are driving Industrial Grade 1,3-Butanediol market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Industrial Grade 1,3-Butanediol market opportunities vary by end market size?

How does Industrial Grade 1,3-Butanediol break out by Type, by Application?

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