

Global Industrial Grade 1,3-Butanediol Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Industrial Grade 1,3-Butanediol market size was valued at US\$ 25 million in 2024 and is forecast to a readjusted size of USD 36.3 million by 2031 with a CAGR of 5.5% during review period.

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.

This report is a detailed and comprehensive analysis for global Industrial Grade

1,3-Butanediol market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Industrial Grade 1,3-Butanediol market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Industrial Grade 1,3-Butanediol market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Industrial Grade 1,3-Butanediol market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Industrial Grade 1,3-Butanediol market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Industrial Grade 1,3-Butanediol
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Industrial Grade 1,3-Butanediol market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include OQ Chemicals, DAICEL, KH Neochem, Godavari Biorefineries, Genomatica, Dongying Hi-tech Spring Chemical, Resonac, KOKYU ALCOHOL KOGYO (HAI), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Industrial Grade 1,3-Butanediol market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Chemical Synthesis

Fermentation

Market segment by Application

Polymer and Resin Manufacturing

Coatings and Adhesives

Textiles and Fibers

Industrial Solvents and Additives

Others

Major players covered

OQ Chemicals

DAICEL

KH Neochem

Godavari Biorefineries

Genomatica

Dongying Hi-tech Spring Chemical

Resonac

KOKYU ALCOHOL KOGYO (HAI)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Industrial Grade 1,3-Butanediol product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Industrial Grade 1,3-Butanediol, with price, sales quantity, revenue, and global market share of Industrial Grade 1,3-Butanediol from 2020 to 2025.

Chapter 3, the Industrial Grade 1,3-Butanediol competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Industrial Grade 1,3-Butanediol breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Industrial Grade 1,3-Butanediol market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Industrial Grade 1,3-Butanediol.

Chapter 14 and 15, to describe Industrial Grade 1,3-Butanediol sales channel, distributors, customers, research findings and conclusion.

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