

# Butyraldehyde Market Forecasts to 2030 – Global Analysis By Product Type (N-Butanol, 2-Ethylhexanol, Polyvinyl Butyral, Trimethylolpropane and Other Product Types), Grade (Technical Grade, Pharmaceutical Grade and Food Grade), Application and By Geography

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## Abstracts

According to Statistics MRC, the Global Butyraldehyde Market is accounted for \$231.52 billion in 2024 and is expected to reach \$367.39 billion by 2030 growing at a CAGR of 8.0% during the forecast period. Butyraldehyde is a four-carbon aliphatic aldehyde that is used to make a wide range of industrial chemicals. It is mainly made by hydroformylating propene, and its primary uses include the production of butyl alcohol, a crucial raw material for solvents, plasticizers, and synthetic rubber. Moreover, butyraldehyde is essential for the synthesis of resins, flavors, and fragrances, as well as agricultural chemicals like insecticides and herbicides. Its reactivity—particularly its capacity to go through condensation and polymerization reactions—makes it a crucial step in the synthesis of many different kinds of chemicals for use in a wide range of industries.

According to Chemical Book, butyraldehyde has a molecular formula of  $C_4H_8O$  and a molecular weight of 72.11. It is used mainly as an intermediate in the production of synthetic resins, rubber vulcanization accelerators, solvents, and plasticizers.

Market Dynamics:

Driver:

## Growing plasticizer demand

Butyraldehyde is essential for the synthesis of butanol, which is then used to make plasticizers like tributyl citrate (TBC) and dibutyl phthalate (DBP). Polyvinyl chloride (PVC) and other polymers are made more flexible, durable, and processable by these plasticizers. The need for butyraldehyde-based plasticizers is growing as a result of the growing demand for lightweight, flexible materials in sectors like medical devices, automotive, packaging, and construction. Additionally, this demand has been further fueled by emerging economies' rapid urbanization and infrastructure development.

### Restraint:

#### Price fluctuations for raw materials

A crucial raw material for the synthesis of butyraldehyde is propylene, a petrochemical derivative. The price volatility of natural gas and crude oil has a direct effect on propylene prices, which in turn affects the cost of producing butyraldehyde. In comparison to alternative chemical intermediates, butyraldehyde-based products may become less competitive due to high raw material costs, which can also reduce manufacturers' profit margins. Furthermore, the dependence on raw materials derived from fossil fuels raises questions about sustainability over the long run, leading businesses to look for alternative feedstocks that might necessitate large infrastructure and R&D investments.

### Opportunity:

#### Growth in the agrochemical industry

Butyraldehyde is used as an intermediate in the production of pesticides, herbicides, and other agrochemical formulations. As the world's population grows and agricultural productivity becomes a priority, there is a growing need for crop protection chemicals. Emerging economies, especially in Asia-Pacific and Latin America, are investing heavily in agricultural modernization, which increases the use of advanced agrochemicals. Additionally, new developments in agrochemical formulations that increase efficiency and lessen environmental impact open up new markets for products derived from butyraldehyde.

### Threat:

## Strict environmental rules

Concerns regarding environmental pollution are raised by the chemical processes used in the production of butyraldehyde, which produce volatile organic compounds (VOCs) and other emissions. Globally, governments are strengthening environmental laws, requiring chemical producers to adhere to more stringent emission control guidelines and sustainability standards. Operating costs will rise as a result of the significant investments needed to comply with these changing regulations in waste management, emissions control systems, and cleaner technologies. However, butyraldehyde manufacturers face financial difficulties due to strict environmental regulations in places like the European Union, which impose high carbon taxes and penalties on noncompliant industries.

## Covid-19 Impact:

The market for butyraldehyde was significantly impacted by the COVID-19 pandemic, which caused supply and demand to shift. Manufacturing facilities had to close during the pandemic's peak, which caused production to lag and raw material supplies to become scarcer. This, along with logistical difficulties and limitations on international trade, led to supply chain snags and higher expenses for producers of butyraldehyde. Due to economic uncertainty, demand for butyraldehyde-based products like plasticizers and synthetic rubber decreased in sectors like packaging, construction, and the automotive industry. Nonetheless, the pandemic also raised demand for long-lasting, secure, and hygienic materials in some industries, like healthcare and food packaging.

The N-Butanol segment is expected to be the largest during the forecast period

The N-Butanol segment is expected to account for the largest market share during the forecast period. Its widespread use as a solvent in paints, varnishes, and coatings, as well as its function as a crucial intermediate in the manufacturing of synthetic resins, plasticizers, and medications, are the reasons for its dominance. Since N-butanol is an essential ingredient in adhesives, sealants, and industrial cleaners, the expanding construction and automotive industries have further increased demand for it. Its use in textile processing, rubber, and printing inks has also improved its standing in the market. Furthermore, expanding N-butanol's long-term market potential, the growing demand for bio-based chemicals has also spurred more research into sustainable production techniques.

The Food Grade segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the Food Grade segment is predicted to witness the highest growth rate. The demand for food-grade butyraldehyde in the flavor and fragrance sector, where it is used as a crucial component in the synthesis of numerous flavouring agents and aroma compounds, is what is driving this growth. The demand for premium flavor additives has been further reinforced by consumers' growing inclination for processed and convenience foods, which has fueled the growth of the food-grade butyraldehyde market. Moreover, manufacturers have adopted food-grade chemicals as a result of strict regulations guaranteeing food safety and quality, which has accelerated the segment's growth.

Region with largest share:

During the forecast period, the Asia-Pacific region is expected to hold the largest market share, propelled by significant consumption in nations such as China and India. The primary cause of this dominance is the expanding automotive and construction industries, which have raised demand for paints, coatings, and adhesives—all crucial applications for butyraldehyde derivatives. Butyraldehyde consumption has increased in China as a result of large investments in housing and infrastructure projects, which have increased the demand for high-performance coatings. Additionally, the region's dominant position in the global butyraldehyde market is further cemented by its quick industrialization and economic expansion.

Region with highest CAGR:

Over the forecast period, the North American region is anticipated to exhibit the highest CAGR, driven by the strong growth of the chemical manufacturing industry and the rising demand for final goods like adhesives and plastics. Because of its sophisticated industrial base and significant R&D expenditures, the United States in particular plays a crucial role. The demand for butyraldehyde derivatives has increased as a result of the region's emphasis on innovation and the creation of high-performance materials, particularly in the construction and automotive sectors. Furthermore, a strong supply chain infrastructure and the existence of significant chemical companies also support the market's expansion in North America.

Key players in the market

Some of the key players in Butyraldehyde market include BASF SE, Dow Chemical Company, Eastman Chemical Company, LG Chem Ltd., Mitsubishi Chemical Corporation, KH Neochem Co., Ltd., Tokyo Chemical Industry Co., Ltd., Evonik Industries AG, Beijing Yunbang Biosciences Co.Ltd., Toronto Research Chemicals, OXEA Corporation, Solvay S.A., Merck KGaA, Perstorp Holding AB and Thermo Fisher Scientific Inc.

#### Key Developments:

In July 2024, BASF and ENGIE signed a 7-year Biomethane Purchase Agreement (BPA). Under the BPA, ENGIE will supply BASF with 2.7 to 3.0 terawatt hours of biomethane throughout the term of the agreement. BASF uses certified biomethane at its Ludwigshafen/Germany and Antwerp/Belgium sites as a sustainable alternative to fossil raw materials in its manufacturing process.

In May 2024, Dow Chemical International Private Limited and Glass Wall Systems India signed an agreement for Dow to supply DOWSIL™ Facade Sealants from Dow's Decarbia™ portfolio of reduced-carbon solutions, for Glass Wall System's curtain wall system. A first-of-its-kind global initiative, this collaboration demonstrates an unwavering dedication from organizations in the building and infrastructure industry to reduce embodied carbon in building materials.

In February 2024, Eastman Chemical has signed an agreement with the European recycling firm Dentis Group to secure postconsumer polyethylene terephthalate (PET) for the methanolysis-based depolymerization plant it is building in Port-Jerome-sur-Seine, France. Dentis will supply Eastman with 30,000 metric tons (t) of PET from plants in France, Italy, and Spain.

#### Product Types Covered:

N-Butanol

2-Ethylhexanol

Polyvinyl Butyral

Trimethylolpropane

Other Product Types

Grades Covered:

Technical Grade

Pharmaceutical Grade

Food Grade

Applications Covered:

Paints and Coatings

Pharmaceuticals

Agrochemicals

Polymers

Automotive

Construction

Cosmetics

Food and Beverage

Other Applications

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

## Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

## Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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