

# Global 2-Bromo-2-Nitro-1,3-Propanediol Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global 2-Bromo-2-Nitro-1,3-Propanediol market size was valued at US\$ 1186 million in 2025 and is forecast to a readjusted size of US\$ 1698 million by 2032 with a CAGR of 5.2% during review period.

2-Bromo-2-Nitro-1,3-Propanediol is a white to light yellow crystalline powder with a melting point of 120?~122?. It is easily soluble in polar solvents such as water, ethanol and propylene glycol, and insoluble in non-polar solvents such as chloroform, acetone and benzene. It is easy to decompose when the pH is greater than 8 and high temperature, and will produce yellow color when exposed to light, which has a corrosive effect on aluminum materials. Bronopol is a bromo-nitroalcohol broad-spectrum fungicide with high bactericidal activity, low concentration and a wide pH range. It is non-irritating to human skin and has no allergic reaction. It is one of the cosmetic preservatives approved by the US FDA. It is mainly used as a preservative and bactericide in cosmetics, and can effectively prevent and treat a variety of plant pathogenic bacteria.

2-Bromo-2-Nitro-1,3-Propanediol Advantages:

(1) Efficient. It has broad-spectrum antibacterial activity and can inhibit the growth of most bacteria at a concentration of 25ppm, and is more effective against Gram-negative bacteria and various types of Pseudomonas;

(2) Less dosage and low price. In cosmetics, the dosage of 2-Bromo-2-Nitro-1,3-Propanediol is generally 0.01~0.05%, which is one-tenth of the

commonly used preservatives in cosmetics, paraben esters, and the cost of use is more than half cheaper than paraben vinegar;

(3) Good compatibility performance. Nutrients such as protein and various cationic, anionic and nonionic surfactants will not affect the antibacterial effect of bronopol;

(4) Suitable pH value range. 2-Bromo-2-Nitro-1,3-Propanediol is effective in the pH range of 4 to 9, that is, in weakly acidic, neutral and alkaline environments, bronopol can maintain a strong antibacterial effect after being added;

(5) Good water solubility and easy to use. 2-Bromo-2-Nitro-1,3-Propanediol is easily soluble in water, with a solubility of 25g in water at 25°C, making it extremely convenient to use.

In 2025, global 2-Bromo-2-Nitro-1,3-Propanediol production reached approximately 65.35 K MT, with an average global market price of around US\$ 17,650 per MT. 2-Bromo-2-Nitro-1,3-Propanediol annual production capacity is 100,000 tons, with a gross profit margin of about 25%.

Upstream raw materials: nitromethane, formaldehyde or paraformaldehyde, liquid bromine or brominating agent, caustic soda, some routes also use calcium chloride, solvents and extraction agents, etc.

Downstream industries: daily chemical industry, water treatment, petroleum industry, pharmaceutical industry.

Raw material cost is 75%; manufacturing cost is 15%, and labor cost is 10%.

Application:

Cosmetic fungicides:

Bronopol has an inhibitory effect on bacteria, molds, and yeasts, but has poor inhibitory activity against molds and yeasts. Use in combination with paraben can enhance the inhibitory effect on molds and yeasts. Its recommended concentration in cosmetics is 0.02%. In cosmetics, as a preservative, it is mainly used in medicated skin creams, medicated shampoos, baby baths, etc.

Water treatment biocides:

Bronopol can be compounded with compounds such as cationic polyquaternary ammonium salts to form a new type of bactericide. It can be added to industrial cooling water, pulp and paper manufacturing water treatment to improve the bactericidal effect and completely prevent the formation of *Klebsiella pneumoniae*.

Petroleum industry fungicides:

The solid bactericide made of bronopol and surfactant into strips and blocks can control the growth of microorganisms in oil well water, and can be dispersed and dissolved in water but not dissolved in oil. Therefore, it can enter the water layer at the bottom of the oil system to kill bacteria, thereby effectively inhibiting the corrosion of metal workpieces.

Deodorant:

Toilet air deodorizers based on bronopol can not only kill fungi and scale insects at very low concentrations, but can also effectively remove ammonia, hydrogen sulfide and mercaptans in toilet air and water. Since bronopol is odorless and cheap, deodorants using it as a bactericide can not only be used in household toilets, but also in deodorizing liquids for unpleasant odors in garbage disposal.

Pharmaceutical industry:

In addition to being used as a topical bactericide in the pharmaceutical industry, bronopol can also be used as a preservative for oral medication for the treatment of gastritis; using bronopol as a bactericide in mastitis formulas can effectively kill *Staphylococcus aureus* and thereby control mastitis.

Other areas:

In addition to the above wide range of application fields, bronopol can also be used as a softener component for textiles, a leather preservative, a preservative for lubricating cooling liquids, a preservative for cut flowers, a preservative for vegetable storage, and a raw material for sterilizing polyvinyl chloride foam, etc.

This report is a detailed and comprehensive analysis for global 2-Bromo-2-Nitro-1,3-Propanediol 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 2-Bromo-2-Nitro-1,3-Propanediol market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global 2-Bromo-2-Nitro-1,3-Propanediol market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global 2-Bromo-2-Nitro-1,3-Propanediol market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global 2-Bromo-2-Nitro-1,3-Propanediol market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

### **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 2-Bromo-2-Nitro-1,3-Propanediol
- 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 2-Bromo-2-Nitro-1,3-Propanediol 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 BASF, Lanxess, Julius Hoesch GmbH & Co, Dow, Connect Chemicals, Mansu Chemical Industries, Sai Supreme Chemicals, Yancheng Donggang Pharmaceutical and Chemical Development, IRO Oil Drilling Chemicals, Kunshan Shuangyou Daily Chemical, etc.

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

## Market Segmentation

2-Bromo-2-Nitro-1,3-Propanediol market is split by Type and by Application. For the period 2021-2032, 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

Industrial Grade

Daily Chemical Grade

Pharmaceutical Grade

### Market segment by Purity

Purity 99%

Purity>99%

### Market segment by Application

Daily Chemical Industry

Water Treatment

Petroleum Industry

Pharmaceutical Industry

Other

### Major players covered

BASF

Lanxess

Julius Hoesch GmbH & Co

Dow

Connect Chemicals

Mansu Chemical Industries

Sai Supreme Chemicals

Yancheng Donggang Pharmaceutical and Chemical Development

IRO Oil Drilling Chemicals

Kunshan Shuangyou Daily Chemical

Nantong Boda Biochemistry

Shandong Yubin Chemical

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 2-Bromo-2-Nitro-1,3-Propanediol product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 2-Bromo-2-Nitro-1,3-Propanediol, with

price, sales quantity, revenue, and global market share of 2-Bromo-2-Nitro-1,3-Propanediol from 2021 to 2026.

Chapter 3, the 2-Bromo-2-Nitro-1,3-Propanediol competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 2-Bromo-2-Nitro-1,3-Propanediol breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and 2-Bromo-2-Nitro-1,3-Propanediol market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 2-Bromo-2-Nitro-1,3-Propanediol.

Chapter 14 and 15, to describe 2-Bromo-2-Nitro-1,3-Propanediol sales channel, distributors, customers, research findings and conclusion.

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