

Global Polyhexamethylene Guanidine Market Growth 2026-2032

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Abstracts

The global Polyhexamethylene Guanidine market size is predicted to grow from US\$ 555 million in 2025 to US\$ 929 million in 2032; it is expected to grow at a CAGR of 7.7% from 2026 to 2032.

Polyhexamethylene Guanidine (PHMG) is a cationic polymeric guanidine compound widely used as a broad-spectrum antimicrobial agent, known for its strong bactericidal, fungicidal, and antiviral properties. It is typically synthesized through the polycondensation of hexamethylenediamine with guanidine salts (such as guanidine hydrochloride), resulting in a water-soluble polymer with high charge density that disrupts microbial cell membranes. The supply chain of PHMG begins upstream with petrochemical-derived intermediates, including hexamethylenediamine (often sourced from adiponitrile hydrogenation) and guanidine compounds (derived from cyanamide chemistry). Midstream production involves chemical manufacturers carrying out controlled polymerization, purification, and formulation into liquid or powder disinfectant-grade products. Downstream, PHMG is supplied to industries such as water treatment, healthcare disinfection, textile finishing, coatings, and household sanitation products, where it is incorporated into antimicrobial formulations, surface coatings, and preservation systems. The market is influenced by regulatory controls due to toxicity concerns in certain applications, especially in consumer and medical-use environments. In 2025, global Polyhexamethylene Guanidine output was about 210,000 tons with 280,000 tons of capacity, average prices of USD 2,500-4,800 per ton, and gross margins around 31%.

United States market for Polyhexamethylene Guanidine is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Polyhexamethylene Guanidine is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Polyhexamethylene Guanidine is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Polyhexamethylene Guanidine players cover Ningbo Inno Pharmchem (China), Suzhou Easy Chemical (China), Green Mountain Chemical (China), Guangzhou Lily New Materials (China), Hebei Guanlang Biotechnology (China), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the 'Polyhexamethylene Guanidine Industry Forecast' looks at past sales and reviews total world Polyhexamethylene Guanidine sales in 2025, providing a comprehensive analysis by region and market sector of projected Polyhexamethylene Guanidine sales for 2026 through 2032. With Polyhexamethylene Guanidine sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Polyhexamethylene Guanidine industry.

This Insight Report provides a comprehensive analysis of the global Polyhexamethylene Guanidine 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 Polyhexamethylene Guanidine portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Polyhexamethylene Guanidine market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Polyhexamethylene Guanidine 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 Polyhexamethylene Guanidine.

This report presents a comprehensive overview, market shares, and growth opportunities of Polyhexamethylene Guanidine market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

PHMG Hydrochloride

PHMG Phosphate

PHMG Sulfate

Segmentation by Molecular Weight:

5 kg/mol

Segmentation by Application:

Healthcare

Water Treatment

Agriculture

Industrial

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.

Ningbo Inno Pharmchem (China)

Suzhou Easy Chemical (China)

Green Mountain Chemical (China)

Guangzhou Lily New Materials (China)

Hebei Guanlang Biotechnology (China)

Nippon Shokubai (Japan)

IRO Group (USA)

Arxada (Switzerland)

Lonza (Switzerland)

LANXESS (Germany)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Polyhexamethylene Guanidine market?

What factors are driving Polyhexamethylene Guanidine market growth, globally and by region?

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

How do Polyhexamethylene Guanidine market opportunities vary by end market size?

How does Polyhexamethylene Guanidine break out by Type, by Application?

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