

Global Polyhexamethylene Guanidine Phosphate Market Growth 2026-2032

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Abstracts

The global Polyhexamethylene Guanidine Phosphate market size is predicted to grow from US\$ 189 million in 2025 to US\$ 314 million in 2032; it is expected to grow at a CAGR of 7.6% from 2026 to 2032.

Polyhexamethylene Guanidine Phosphate (PHMG-P) is a cationic polymeric guanidine salt formed by neutralizing polyhexamethylene guanidine (PHMG) with phosphoric acid, widely used as a broad-spectrum antimicrobial agent due to its strong bactericidal, fungicidal, and antiviral properties. It works by disrupting microbial cell membranes through electrostatic interaction, leading to leakage of intracellular components. In the supply chain, the upstream segment includes raw materials such as hexamethylenediamine (HMDA), guanidine compounds (e.g., guanidine hydrochloride), and phosphoric acid, along with basic petrochemical intermediates. The midstream involves polymerization of guanidine with hexamethylenediamine to form PHMG base, followed by neutralization or salt formation with phosphoric acid to produce PHMG-P, typically carried out by specialty chemical manufacturers with expertise in polymer biocides. Downstream, PHMG-P is formulated into disinfectants, water treatment chemicals, coatings, textiles, personal care additives, and industrial preservatives, and distributed through chemical suppliers to sectors such as healthcare, sanitation, agriculture, aquaculture, and industrial water systems, with regulatory oversight playing an important role due to its toxicity and environmental impact considerations. In 2025, global PHMG-P output was about 70,000 tons with 90,000 tons of capacity, average prices of USD 2,500-4,800 per ton, and gross margins around 31%.

United States market for Polyhexamethylene Guanidine Phosphate 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 Phosphate 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 Phosphate 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 Phosphate 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 Phosphate Industry Forecast" looks at past sales and reviews total world Polyhexamethylene Guanidine Phosphate sales in 2025, providing a comprehensive analysis by region and market sector of projected Polyhexamethylene Guanidine Phosphate sales for 2026 through 2032. With Polyhexamethylene Guanidine Phosphate sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Polyhexamethylene Guanidine Phosphate industry.

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

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

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

Segmentation by Type:

Liquid PHMG-P

Solid PHMG-P

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 Phosphate market?

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

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

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

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

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