

Global Polyhexamethylene Guanidine Phosphate 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 Polyhexamethylene Guanidine Phosphate market size was valued at US\$ 199 million in 2025 and is forecast to a readjusted size of US\$ 322 million by 2032 with a CAGR of 7.1% during review period.

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%.

This report is a detailed and comprehensive analysis for global Polyhexamethylene

Guanidine Phosphate 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 Polyhexamethylene Guanidine Phosphate market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Polyhexamethylene Guanidine Phosphate market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Polyhexamethylene Guanidine Phosphate market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Polyhexamethylene Guanidine Phosphate market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 Polyhexamethylene Guanidine Phosphate

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 Polyhexamethylene Guanidine Phosphate 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 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), etc.

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

Market Segmentation

Polyhexamethylene Guanidine Phosphate 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

Liquid PHMG-P

Solid PHMG-P

Market segment by Molecular Weight

5 kg/mol

Market segment by Application

Healthcare

Water Treatment

Agriculture

Industrial

Others

Major players covered

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)

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 Polyhexamethylene Guanidine Phosphate product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Polyhexamethylene Guanidine Phosphate, with price, sales quantity, revenue, and global market share of Polyhexamethylene Guanidine Phosphate from 2021 to 2026.

Chapter 3, the Polyhexamethylene Guanidine Phosphate competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Polyhexamethylene Guanidine Phosphate 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 Polyhexamethylene Guanidine Phosphate 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 Polyhexamethylene Guanidine Phosphate.

Chapter 14 and 15, to describe Polyhexamethylene Guanidine Phosphate sales channel, distributors, customers, research findings and conclusion.

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