

# Global Agricultural Grade Polyglutamic Acid Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G738A7075A8CEN.html>

Date: February 2026

Pages: 117

Price: US\$ 4,480.00 (Single User License)

ID: G738A7075A8CEN

## Abstracts

The global Agricultural Grade Polyglutamic Acid market size is expected to reach \$ 294 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

Agricultural Grade Polyglutamic Acid (PGA) is a water-soluble, biodegradable biopolymer mainly produced by microbial fermentation. It features excellent water-retention, nutrient-chelation, and soil-improving properties, and is widely used in agricultural production to enhance fertilizer efficiency, promote crop nutrient absorption, reduce water loss, and improve soil structure. As an environmentally friendly agricultural additive, it complies with agricultural safety standards and supports sustainable crop cultivation.

In 2025, global Agricultural Grade Polyglutamic Acid production reached approximately 26,438 tons, with an average global market price of around US\$ 7,300 per ton.

The development trend for Agricultural Grade Polyglutamic Acid is expected to be positive in the coming years. With the growing awareness about the harmful effects of chemical fertilizers and pesticides, there is a rising demand for organic and sustainable agricultural practices. Polyglutamic acid, being a natural and biodegradable polymer, is considered an eco-friendly alternative to synthetic fertilizers and pesticides. Agricultural Grade Polyglutamic Acid has been found to improve crop yield and quality by enhancing nutrient absorption, promoting root growth, and increasing water retention in the soil. Farmers are increasingly adopting this technology to maximize their productivity and profitability. Many governments around the world are promoting sustainable agriculture practices through subsidies, grants, and regulations. This support encourages farmers to adopt eco-friendly solutions like Agricultural Grade Polyglutamic Acid, further driving

its development and adoption.

This report studies the global Agricultural Grade Polyglutamic Acid production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Agricultural Grade Polyglutamic Acid and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Agricultural Grade Polyglutamic Acid that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Agricultural Grade Polyglutamic Acid total production and demand, 2021-2032, (Tons)

Global Agricultural Grade Polyglutamic Acid total production value, 2021-2032, (USD Million)

Global Agricultural Grade Polyglutamic Acid production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Agricultural Grade Polyglutamic Acid consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Agricultural Grade Polyglutamic Acid domestic production, consumption, key domestic manufacturers and share

Global Agricultural Grade Polyglutamic Acid production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Agricultural Grade Polyglutamic Acid production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Agricultural Grade Polyglutamic Acid production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Agricultural Grade Polyglutamic Acid market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include FREDA, Nanjing Shineking Biotech, Lubon Biology, Nanjing Essence Fine Chemical, Shan dong liyoung biotechnology co.,Ltd., MCBIOTEC, Vedan Biotechnology, Hefei Hechen, Shandong Fuaobiotechnology Co., Ltd., Shandong Changrui, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Agricultural Grade Polyglutamic Acid market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

### **Global Agricultural Grade Polyglutamic Acid Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### **Global Agricultural Grade Polyglutamic Acid Market, Segmentation by Type:**

Powder

Aquae

Others

Global Agricultural Grade Polyglutamic Acid Market, Segmentation by Molecular Weight:

Low Molecular Weight PGA (2,000,000 Da)

Global Agricultural Grade Polyglutamic Acid Market, Segmentation by Polymerization Degree:

Low-polymerization Degree

Medium-polymerization Degree

High-polymerization Degree

Global Agricultural Grade Polyglutamic Acid Market, Segmentation by Application:

Soil Improvement

Fertilizer Enhancement

Plant Growth Promotion

Others

Companies Profiled:

FREDA

Nanjing Shineking Biotech

Lubon Biology

Nanjing Essence Fine Chemical

Shan dong liyoung biotechnology co.,Ltd.

MCBIOTEC

Vedan Biotechnology

Hefei Hechen

Shandong Fuaao Biotechnology Co., Ltd.

Shandong Changrui

Shandong Taihe Biotech

JIUTAI GROUP

GUANGHUA CORP

**Key Questions Answered:**

1. How big is the global Agricultural Grade Polyglutamic Acid market?
2. What is the demand of the global Agricultural Grade Polyglutamic Acid market?
3. What is the year over year growth of the global Agricultural Grade Polyglutamic Acid market?
4. What is the production and production value of the global Agricultural Grade Polyglutamic Acid market?
5. Who are the key producers in the global Agricultural Grade Polyglutamic Acid market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Agricultural Grade Polyglutamic Acid Introduction
- 1.2 World Agricultural Grade Polyglutamic Acid Supply & Forecast
  - 1.2.1 World Agricultural Grade Polyglutamic Acid Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Agricultural Grade Polyglutamic Acid Production (2021-2032)
  - 1.2.3 World Agricultural Grade Polyglutamic Acid Pricing Trends (2021-2032)
- 1.3 World Agricultural Grade Polyglutamic Acid Production by Region (Based on Production Site)
  - 1.3.1 World Agricultural Grade Polyglutamic Acid Production Value by Region (2021-2032)
  - 1.3.2 World Agricultural Grade Polyglutamic Acid Production by Region (2021-2032)
  - 1.3.3 World Agricultural Grade Polyglutamic Acid Average Price by Region (2021-2032)
  - 1.3.4 North America Agricultural Grade Polyglutamic Acid Production (2021-2032)
  - 1.3.5 Europe Agricultural Grade Polyglutamic Acid Production (2021-2032)
  - 1.3.6 China Agricultural Grade Polyglutamic Acid Production (2021-2032)
  - 1.3.7 Japan Agricultural Grade Polyglutamic Acid Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Agricultural Grade Polyglutamic Acid Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Agricultural Grade Polyglutamic Acid Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Agricultural Grade Polyglutamic Acid Demand (2021-2032)
- 2.2 World Agricultural Grade Polyglutamic Acid Consumption by Region
  - 2.2.1 World Agricultural Grade Polyglutamic Acid Consumption by Region (2021-2026)
  - 2.2.2 World Agricultural Grade Polyglutamic Acid Consumption Forecast by Region (2027-2032)
- 2.3 United States Agricultural Grade Polyglutamic Acid Consumption (2021-2032)
- 2.4 China Agricultural Grade Polyglutamic Acid Consumption (2021-2032)
- 2.5 Europe Agricultural Grade Polyglutamic Acid Consumption (2021-2032)
- 2.6 Japan Agricultural Grade Polyglutamic Acid Consumption (2021-2032)
- 2.7 South Korea Agricultural Grade Polyglutamic Acid Consumption (2021-2032)
- 2.8 ASEAN Agricultural Grade Polyglutamic Acid Consumption (2021-2032)

## 2.9 India Agricultural Grade Polyglutamic Acid Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

#### 3.1 World Agricultural Grade Polyglutamic Acid Production Value by Manufacturer (2021-2026)

#### 3.2 World Agricultural Grade Polyglutamic Acid Production by Manufacturer (2021-2026)

#### 3.3 World Agricultural Grade Polyglutamic Acid Average Price by Manufacturer (2021-2026)

#### 3.4 Agricultural Grade Polyglutamic Acid Company Evaluation Quadrant

#### 3.5 Industry Rank and Concentration Rate (CR)

##### 3.5.1 Global Agricultural Grade Polyglutamic Acid Industry Rank of Major Manufacturers

##### 3.5.2 Global Concentration Ratios (CR4) for Agricultural Grade Polyglutamic Acid in 2025

##### 3.5.3 Global Concentration Ratios (CR8) for Agricultural Grade Polyglutamic Acid in 2025

#### 3.6 Agricultural Grade Polyglutamic Acid Market: Overall Company Footprint Analysis

##### 3.6.1 Agricultural Grade Polyglutamic Acid Market: Region Footprint

##### 3.6.2 Agricultural Grade Polyglutamic Acid Market: Company Product Type Footprint

##### 3.6.3 Agricultural Grade Polyglutamic Acid Market: Company Product Application Footprint

#### 3.7 Competitive Environment

##### 3.7.1 Historical Structure of the Industry

##### 3.7.2 Barriers of Market Entry

##### 3.7.3 Factors of Competition

#### 3.8 New Entrant and Capacity Expansion Plans

#### 3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

#### 4.1 United States VS China: Agricultural Grade Polyglutamic Acid Production Value Comparison

##### 4.1.1 United States VS China: Agricultural Grade Polyglutamic Acid Production Value Comparison (2021 & 2025 & 2032)

##### 4.1.2 United States VS China: Agricultural Grade Polyglutamic Acid Production Value Market Share Comparison (2021 & 2025 & 2032)

#### 4.2 United States VS China: Agricultural Grade Polyglutamic Acid Production

## Comparison

4.2.1 United States VS China: Agricultural Grade Polyglutamic Acid Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Agricultural Grade Polyglutamic Acid Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Agricultural Grade Polyglutamic Acid Consumption Comparison

4.3.1 United States VS China: Agricultural Grade Polyglutamic Acid Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Agricultural Grade Polyglutamic Acid Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Agricultural Grade Polyglutamic Acid Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Agricultural Grade Polyglutamic Acid Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Agricultural Grade Polyglutamic Acid Production Value (2021-2026)

4.4.3 United States Based Manufacturers Agricultural Grade Polyglutamic Acid Production (2021-2026)

4.5 China Based Agricultural Grade Polyglutamic Acid Manufacturers and Market Share

4.5.1 China Based Agricultural Grade Polyglutamic Acid Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Agricultural Grade Polyglutamic Acid Production Value (2021-2026)

4.5.3 China Based Manufacturers Agricultural Grade Polyglutamic Acid Production (2021-2026)

4.6 Rest of World Based Agricultural Grade Polyglutamic Acid Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Agricultural Grade Polyglutamic Acid Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Agricultural Grade Polyglutamic Acid Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Agricultural Grade Polyglutamic Acid Production (2021-2026)

## 5 MARKET ANALYSIS BY TYPE

5.1 World Agricultural Grade Polyglutamic Acid Market Size Overview by Type: 2021 VS 2025 VS 2032

## 5.2 Segment Introduction by Type

5.2.1 Powder

5.2.2 Aquae

5.2.3 Others

## 5.3 Market Segment by Type

5.3.1 World Agricultural Grade Polyglutamic Acid Production by Type (2021-2032)

5.3.2 World Agricultural Grade Polyglutamic Acid Production Value by Type (2021-2032)

5.3.3 World Agricultural Grade Polyglutamic Acid Average Price by Type (2021-2032)

## 6 MARKET ANALYSIS BY MOLECULAR WEIGHT

6.1 World Agricultural Grade Polyglutamic Acid Market Size Overview by Molecular Weight: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Molecular Weight

6.2.1 Low Molecular Weight PGA (2,000,000 Da)

6.3 Market Segment by Molecular Weight

6.3.1 World Agricultural Grade Polyglutamic Acid Production by Molecular Weight (2021-2032)

6.3.2 World Agricultural Grade Polyglutamic Acid Production Value by Molecular Weight (2021-2032)

6.3.3 World Agricultural Grade Polyglutamic Acid Average Price by Molecular Weight (2021-2032)

## 7 MARKET ANALYSIS BY POLYMERIZATION DEGREE

7.1 World Agricultural Grade Polyglutamic Acid Market Size Overview by Polymerization Degree: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Polymerization Degree

7.2.1 Low-polymerization Degree

7.2.2 Medium-polymerization Degree

7.2.3 High-polymerization Degree

7.3 Market Segment by Polymerization Degree

7.3.1 World Agricultural Grade Polyglutamic Acid Production by Polymerization Degree (2021-2032)

7.3.2 World Agricultural Grade Polyglutamic Acid Production Value by Polymerization Degree (2021-2032)

7.3.3 World Agricultural Grade Polyglutamic Acid Average Price by Polymerization Degree (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Agricultural Grade Polyglutamic Acid Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Soil Improvement

8.2.2 Fertilizer Enhancement

8.2.3 Plant Growth Promotion

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Agricultural Grade Polyglutamic Acid Production by Application (2021-2032)

8.3.2 World Agricultural Grade Polyglutamic Acid Production Value by Application (2021-2032)

8.3.3 World Agricultural Grade Polyglutamic Acid Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 FREDA

9.1.1 FREDA Details

9.1.2 FREDA Major Business

9.1.3 FREDA Agricultural Grade Polyglutamic Acid Product and Services

9.1.4 FREDA Agricultural Grade Polyglutamic Acid Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 FREDA Recent Developments/Updates

9.1.6 FREDA Competitive Strengths & Weaknesses

9.2 Nanjing Shineking Biotech

9.2.1 Nanjing Shineking Biotech Details

9.2.2 Nanjing Shineking Biotech Major Business

9.2.3 Nanjing Shineking Biotech Agricultural Grade Polyglutamic Acid Product and Services

9.2.4 Nanjing Shineking Biotech Agricultural Grade Polyglutamic Acid Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Nanjing Shineking Biotech Recent Developments/Updates

9.2.6 Nanjing Shineking Biotech Competitive Strengths & Weaknesses

9.3 Lubon Biology

9.3.1 Lubon Biology Details

- 9.3.2 Lubon Biology Major Business
- 9.3.3 Lubon Biology Agricultural Grade Polyglutamic Acid Product and Services
- 9.3.4 Lubon Biology Agricultural Grade Polyglutamic Acid Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 Lubon Biology Recent Developments/Updates
- 9.3.6 Lubon Biology Competitive Strengths & Weaknesses
- 9.4 Nanjing Essence Fine Chemical
  - 9.4.1 Nanjing Essence Fine Chemical Details
  - 9.4.2 Nanjing Essence Fine Chemical Major Business
  - 9.4.3 Nanjing Essence Fine Chemical Agricultural Grade Polyglutamic Acid Product and Services
  - 9.4.4 Nanjing Essence Fine Chemical Agricultural Grade Polyglutamic Acid Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Nanjing Essence Fine Chemical Recent Developments/Updates
  - 9.4.6 Nanjing Essence Fine Chemical Competitive Strengths & Weaknesses
- 9.5 Shan dong liyoung biotechnology co.,Ltd.
  - 9.5.1 Shan dong liyoung biotechnology co.,Ltd. Details
  - 9.5.2 Shan dong liyoung biotechnology co.,Ltd. Major Business
  - 9.5.3 Shan dong liyoung biotechnology co.,Ltd. Agricultural Grade Polyglutamic Acid Product and Services
  - 9.5.4 Shan dong liyoung biotechnology co.,Ltd. Agricultural Grade Polyglutamic Acid Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Shan dong liyoung biotechnology co.,Ltd. Recent Developments/Updates
  - 9.5.6 Shan dong liyoung biotechnology co.,Ltd. Competitive Strengths & Weaknesses
- 9.6 MCBIOTEC
  - 9.6.1 MCBIOTEC Details
  - 9.6.2 MCBIOTEC Major Business
  - 9.6.3 MCBIOTEC Agricultural Grade Polyglutamic Acid Product and Services
  - 9.6.4 MCBIOTEC Agricultural Grade Polyglutamic Acid Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 MCBIOTEC Recent Developments/Updates
  - 9.6.6 MCBIOTEC Competitive Strengths & Weaknesses
- 9.7 Vedan Biotechnology
  - 9.7.1 Vedan Biotechnology Details
  - 9.7.2 Vedan Biotechnology Major Business
  - 9.7.3 Vedan Biotechnology Agricultural Grade Polyglutamic Acid Product and Services
  - 9.7.4 Vedan Biotechnology Agricultural Grade Polyglutamic Acid Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 Vedan Biotechnology Recent Developments/Updates

- 9.7.6 Vedan Biotechnology Competitive Strengths & Weaknesses
- 9.8 Hefei Hechen
  - 9.8.1 Hefei Hechen Details
  - 9.8.2 Hefei Hechen Major Business
  - 9.8.3 Hefei Hechen Agricultural Grade Polyglutamic Acid Product and Services
  - 9.8.4 Hefei Hechen Agricultural Grade Polyglutamic Acid Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Hefei Hechen Recent Developments/Updates
  - 9.8.6 Hefei Hechen Competitive Strengths & Weaknesses
- 9.9 Shandong Fuaao Biotechnology Co., Ltd.
  - 9.9.1 Shandong Fuaao Biotechnology Co., Ltd. Details
  - 9.9.2 Shandong Fuaao Biotechnology Co., Ltd. Major Business
  - 9.9.3 Shandong Fuaao Biotechnology Co., Ltd. Agricultural Grade Polyglutamic Acid Product and Services
  - 9.9.4 Shandong Fuaao Biotechnology Co., Ltd. Agricultural Grade Polyglutamic Acid Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Shandong Fuaao Biotechnology Co., Ltd. Recent Developments/Updates
  - 9.9.6 Shandong Fuaao Biotechnology Co., Ltd. Competitive Strengths & Weaknesses
- 9.10 Shandong Changrui
  - 9.10.1 Shandong Changrui Details
  - 9.10.2 Shandong Changrui Major Business
  - 9.10.3 Shandong Changrui Agricultural Grade Polyglutamic Acid Product and Services
  - 9.10.4 Shandong Changrui Agricultural Grade Polyglutamic Acid Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Shandong Changrui Recent Developments/Updates
  - 9.10.6 Shandong Changrui Competitive Strengths & Weaknesses
- 9.11 Shandong Taihe Biotech
  - 9.11.1 Shandong Taihe Biotech Details
  - 9.11.2 Shandong Taihe Biotech Major Business
  - 9.11.3 Shandong Taihe Biotech Agricultural Grade Polyglutamic Acid Product and Services
  - 9.11.4 Shandong Taihe Biotech Agricultural Grade Polyglutamic Acid Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Shandong Taihe Biotech Recent Developments/Updates
  - 9.11.6 Shandong Taihe Biotech Competitive Strengths & Weaknesses
- 9.12 JIUTAI GROUP
  - 9.12.1 JIUTAI GROUP Details
  - 9.12.2 JIUTAI GROUP Major Business
  - 9.12.3 JIUTAI GROUP Agricultural Grade Polyglutamic Acid Product and Services

9.12.4 JIUTAI GROUP Agricultural Grade Polyglutamic Acid Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 JIUTAI GROUP Recent Developments/Updates

9.12.6 JIUTAI GROUP Competitive Strengths & Weaknesses

9.13 GUANGHUA CORP

9.13.1 GUANGHUA CORP Details

9.13.2 GUANGHUA CORP Major Business

9.13.3 GUANGHUA CORP Agricultural Grade Polyglutamic Acid Product and Services

9.13.4 GUANGHUA CORP Agricultural Grade Polyglutamic Acid Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 GUANGHUA CORP Recent Developments/Updates

9.13.6 GUANGHUA CORP Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

10.1 Agricultural Grade Polyglutamic Acid Industry Chain

10.2 Agricultural Grade Polyglutamic Acid Upstream Analysis

10.2.1 Agricultural Grade Polyglutamic Acid Core Raw Materials

10.2.2 Main Manufacturers of Agricultural Grade Polyglutamic Acid Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Agricultural Grade Polyglutamic Acid Production Mode

10.6 Agricultural Grade Polyglutamic Acid Procurement Model

10.7 Agricultural Grade Polyglutamic Acid Industry Sales Model and Sales Channels

10.7.1 Agricultural Grade Polyglutamic Acid Sales Model

10.7.2 Agricultural Grade Polyglutamic Acid Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Agricultural Grade Polyglutamic Acid Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Agricultural Grade Polyglutamic Acid Production Value by Region (2021-2026) & (USD Million)

Table 3. World Agricultural Grade Polyglutamic Acid Production Value by Region (2027-2032) & (USD Million)

Table 4. World Agricultural Grade Polyglutamic Acid Production Value Market Share by Region (2021-2026)

Table 5. World Agricultural Grade Polyglutamic Acid Production Value Market Share by Region (2027-2032)

Table 6. World Agricultural Grade Polyglutamic Acid Production by Region (2021-2026) & (Tons)

Table 7. World Agricultural Grade Polyglutamic Acid Production by Region (2027-2032) & (Tons)

Table 8. World Agricultural Grade Polyglutamic Acid Production Market Share by Region (2021-2026)

Table 9. World Agricultural Grade Polyglutamic Acid Production Market Share by Region (2027-2032)

Table 10. World Agricultural Grade Polyglutamic Acid Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Agricultural Grade Polyglutamic Acid Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Agricultural Grade Polyglutamic Acid Major Market Trends

Table 13. World Agricultural Grade Polyglutamic Acid Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Agricultural Grade Polyglutamic Acid Consumption by Region (2021-2026) & (Tons)

Table 15. World Agricultural Grade Polyglutamic Acid Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Agricultural Grade Polyglutamic Acid Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Agricultural Grade Polyglutamic Acid Producers in 2025

Table 18. World Agricultural Grade Polyglutamic Acid Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Agricultural Grade Polyglutamic Acid Producers in 2025

Table 20. World Agricultural Grade Polyglutamic Acid Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Agricultural Grade Polyglutamic Acid Company Evaluation Quadrant

Table 22. World Agricultural Grade Polyglutamic Acid Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Agricultural Grade Polyglutamic Acid Production Site of Key Manufacturer

Table 24. Agricultural Grade Polyglutamic Acid Market: Company Product Type Footprint

Table 25. Agricultural Grade Polyglutamic Acid Market: Company Product Application Footprint

Table 26. Agricultural Grade Polyglutamic Acid Competitive Factors

Table 27. Agricultural Grade Polyglutamic Acid New Entrant and Capacity Expansion Plans

Table 28. Agricultural Grade Polyglutamic Acid Mergers & Acquisitions Activity

Table 29. United States VS China Agricultural Grade Polyglutamic Acid Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Agricultural Grade Polyglutamic Acid Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Agricultural Grade Polyglutamic Acid Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Agricultural Grade Polyglutamic Acid Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Agricultural Grade Polyglutamic Acid Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Agricultural Grade Polyglutamic Acid Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Agricultural Grade Polyglutamic Acid Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Agricultural Grade Polyglutamic Acid Production Market Share (2021-2026)

Table 37. China Based Agricultural Grade Polyglutamic Acid Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Agricultural Grade Polyglutamic Acid Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Agricultural Grade Polyglutamic Acid Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Agricultural Grade Polyglutamic Acid Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Agricultural Grade Polyglutamic Acid Production Market Share (2021-2026)

Table 42. Rest of World Based Agricultural Grade Polyglutamic Acid Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Agricultural Grade Polyglutamic Acid Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Agricultural Grade Polyglutamic Acid Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Agricultural Grade Polyglutamic Acid Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Agricultural Grade Polyglutamic Acid Production Market Share (2021-2026)

Table 47. World Agricultural Grade Polyglutamic Acid Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Agricultural Grade Polyglutamic Acid Production by Type (2021-2026) & (Tons)

Table 49. World Agricultural Grade Polyglutamic Acid Production by Type (2027-2032) & (Tons)

Table 50. World Agricultural Grade Polyglutamic Acid Production Value by Type (2021-2026) & (USD Million)

Table 51. World Agricultural Grade Polyglutamic Acid Production Value by Type (2027-2032) & (USD Million)

Table 52. World Agricultural Grade Polyglutamic Acid Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Agricultural Grade Polyglutamic Acid Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Agricultural Grade Polyglutamic Acid Production Value by Molecular Weight, (USD Million), 2021 & 2025 & 2032

Table 55. World Agricultural Grade Polyglutamic Acid Production by Molecular Weight (2021-2026) & (Tons)

Table 56. World Agricultural Grade Polyglutamic Acid Production by Molecular Weight (2027-2032) & (Tons)

Table 57. World Agricultural Grade Polyglutamic Acid Production Value by Molecular Weight (2021-2026) & (USD Million)

Table 58. World Agricultural Grade Polyglutamic Acid Production Value by Molecular Weight (2027-2032) & (USD Million)

Table 59. World Agricultural Grade Polyglutamic Acid Average Price by Molecular

Weight (2021-2026) & (US\$/Ton)

Table 60. World Agricultural Grade Polyglutamic Acid Average Price by Molecular Weight (2027-2032) & (US\$/Ton)

Table 61. World Agricultural Grade Polyglutamic Acid Production Value by Polymerization Degree, (USD Million), 2021 & 2025 & 2032

Table 62. World Agricultural Grade Polyglutamic Acid Production by Polymerization Degree (2021-2026) & (Tons)

Table 63. World Agricultural Grade Polyglutamic Acid Production by Polymerization Degree (2027-2032) & (Tons)

Table 64. World Agricultural Grade Polyglutamic Acid Production Value by Polymerization Degree (2021-2026) & (USD Million)

Table 65. World Agricultural Grade Polyglutamic Acid Production Value by Polymerization Degree (2027-2032) & (USD Million)

Table 66. World Agricultural Grade Polyglutamic Acid Average Price by Polymerization Degree (2021-2026) & (US\$/Ton)

Table 67. World Agricultural Grade Polyglutamic Acid Average Price by Polymerization Degree (2027-2032) & (US\$/Ton)

Table 68. World Agricultural Grade Polyglutamic Acid Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Agricultural Grade Polyglutamic Acid Production by Application (2021-2026) & (Tons)

Table 70. World Agricultural Grade Polyglutamic Acid Production by Application (2027-2032) & (Tons)

Table 71. World Agricultural Grade Polyglutamic Acid Production Value by Application (2021-2026) & (USD Million)

Table 72. World Agricultural Grade Polyglutamic Acid Production Value by Application (2027-2032) & (USD Million)

Table 73. World Agricultural Grade Polyglutamic Acid Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Agricultural Grade Polyglutamic Acid Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. FREDA Basic Information, Manufacturing Base and Competitors

Table 76. FREDA Major Business

Table 77. FREDA Agricultural Grade Polyglutamic Acid Product and Services

Table 78. FREDA Agricultural Grade Polyglutamic Acid Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. FREDA Recent Developments/Updates

Table 80. FREDA Competitive Strengths & Weaknesses

Table 81. Nanjing Shineking Biotech Basic Information, Manufacturing Base and Competitors

Table 82. Nanjing Shineking Biotech Major Business

Table 83. Nanjing Shineking Biotech Agricultural Grade Polyglutamic Acid Product and Services

Table 84. Nanjing Shineking Biotech Agricultural Grade Polyglutamic Acid Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Nanjing Shineking Biotech Recent Developments/Updates

Table 86. Nanjing Shineking Biotech Competitive Strengths & Weaknesses

Table 87. Lubon Biology Basic Information, Manufacturing Base and Competitors

Table 88. Lubon Biology Major Business

Table 89. Lubon Biology Agricultural Grade Polyglutamic Acid Product and Services

Table 90. Lubon Biology Agricultural Grade Polyglutamic Acid Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Lubon Biology Recent Developments/Updates

Table 92. Lubon Biology Competitive Strengths & Weaknesses

Table 93. Nanjing Essence Fine Chemical Basic Information, Manufacturing Base and Competitors

Table 94. Nanjing Essence Fine Chemical Major Business

Table 95. Nanjing Essence Fine Chemical Agricultural Grade Polyglutamic Acid Product and Services

Table 96. Nanjing Essence Fine Chemical Agricultural Grade Polyglutamic Acid Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Nanjing Essence Fine Chemical Recent Developments/Updates

Table 98. Nanjing Essence Fine Chemical Competitive Strengths & Weaknesses

Table 99. Shan dong liyoung biotechnology co.,Ltd. Basic Information, Manufacturing Base and Competitors

Table 100. Shan dong liyoung biotechnology co.,Ltd. Major Business

Table 101. Shan dong liyoung biotechnology co.,Ltd. Agricultural Grade Polyglutamic Acid Product and Services

Table 102. Shan dong liyoung biotechnology co.,Ltd. Agricultural Grade Polyglutamic Acid Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Shan dong liyoung biotechnology co.,Ltd. Recent Developments/Updates

Table 104. Shan dong liyoung biotechnology co.,Ltd. Competitive Strengths & Weaknesses

Table 105. MCBIOTEC Basic Information, Manufacturing Base and Competitors

Table 106. MCBIOTEC Major Business

Table 107. MCBIOTEC Agricultural Grade Polyglutamic Acid Product and Services

Table 108. MCBIOTEC Agricultural Grade Polyglutamic Acid Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. MCBIOTEC Recent Developments/Updates

Table 110. MCBIOTEC Competitive Strengths & Weaknesses

Table 111. Vedan Biotechnology Basic Information, Manufacturing Base and Competitors

Table 112. Vedan Biotechnology Major Business

Table 113. Vedan Biotechnology Agricultural Grade Polyglutamic Acid Product and Services

Table 114. Vedan Biotechnology Agricultural Grade Polyglutamic Acid Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Vedan Biotechnology Recent Developments/Updates

Table 116. Vedan Biotechnology Competitive Strengths & Weaknesses

Table 117. Hefei Hechen Basic Information, Manufacturing Base and Competitors

Table 118. Hefei Hechen Major Business

Table 119. Hefei Hechen Agricultural Grade Polyglutamic Acid Product and Services

Table 120. Hefei Hechen Agricultural Grade Polyglutamic Acid Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Hefei Hechen Recent Developments/Updates

Table 122. Hefei Hechen Competitive Strengths & Weaknesses

Table 123. Shandong Fuaao Biotechnology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 124. Shandong Fuaao Biotechnology Co., Ltd. Major Business

Table 125. Shandong Fuaao Biotechnology Co., Ltd. Agricultural Grade Polyglutamic Acid Product and Services

Table 126. Shandong Fuaao Biotechnology Co., Ltd. Agricultural Grade Polyglutamic Acid Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Shandong Fuaao Biotechnology Co., Ltd. Recent Developments/Updates

Table 128. Shandong Fuaao Biotechnology Co., Ltd. Competitive Strengths & Weaknesses

Table 129. Shandong Changrui Basic Information, Manufacturing Base and Competitors

Table 130. Shandong Changrui Major Business

Table 131. Shandong Changrui Agricultural Grade Polyglutamic Acid Product and Services

Table 132. Shandong Changrui Agricultural Grade Polyglutamic Acid Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Shandong Changrui Recent Developments/Updates

Table 134. Shandong Changrui Competitive Strengths & Weaknesses

Table 135. Shandong Taihe Biotech Basic Information, Manufacturing Base and Competitors

Table 136. Shandong Taihe Biotech Major Business

Table 137. Shandong Taihe Biotech Agricultural Grade Polyglutamic Acid Product and Services

Table 138. Shandong Taihe Biotech Agricultural Grade Polyglutamic Acid Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Shandong Taihe Biotech Recent Developments/Updates

Table 140. Shandong Taihe Biotech Competitive Strengths & Weaknesses

Table 141. JIUTAI GROUP Basic Information, Manufacturing Base and Competitors

Table 142. JIUTAI GROUP Major Business

Table 143. JIUTAI GROUP Agricultural Grade Polyglutamic Acid Product and Services

Table 144. JIUTAI GROUP Agricultural Grade Polyglutamic Acid Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. JIUTAI GROUP Recent Developments/Updates

Table 146. JIUTAI GROUP Competitive Strengths & Weaknesses

Table 147. GUANGHUA CORP Basic Information, Manufacturing Base and Competitors

Table 148. GUANGHUA CORP Major Business

Table 149. GUANGHUA CORP Agricultural Grade Polyglutamic Acid Product and Services

Table 150. GUANGHUA CORP Agricultural Grade Polyglutamic Acid Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. GUANGHUA CORP Recent Developments/Updates

Table 152. GUANGHUA CORP Competitive Strengths & Weaknesses

Table 153. Global Key Players of Agricultural Grade Polyglutamic Acid Upstream (Raw Materials)

Table 154. Global Agricultural Grade Polyglutamic Acid Typical Customers

Table 155. Agricultural Grade Polyglutamic Acid Typical Distributors



## List Of Figures

### LIST OF FIGURES

- Figure 1. Agricultural Grade Polyglutamic Acid Picture
- Figure 2. World Agricultural Grade Polyglutamic Acid Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Agricultural Grade Polyglutamic Acid Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Agricultural Grade Polyglutamic Acid Production (2021-2032) & (Tons)
- Figure 5. World Agricultural Grade Polyglutamic Acid Average Price (2021-2032) & (US\$/Ton)
- Figure 6. World Agricultural Grade Polyglutamic Acid Production Value Market Share by Region (2021-2032)
- Figure 7. World Agricultural Grade Polyglutamic Acid Production Market Share by Region (2021-2032)
- Figure 8. North America Agricultural Grade Polyglutamic Acid Production (2021-2032) & (Tons)
- Figure 9. Europe Agricultural Grade Polyglutamic Acid Production (2021-2032) & (Tons)
- Figure 10. China Agricultural Grade Polyglutamic Acid Production (2021-2032) & (Tons)
- Figure 11. Japan Agricultural Grade Polyglutamic Acid Production (2021-2032) & (Tons)
- Figure 12. Agricultural Grade Polyglutamic Acid Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Agricultural Grade Polyglutamic Acid Consumption (2021-2032) & (Tons)
- Figure 15. World Agricultural Grade Polyglutamic Acid Consumption Market Share by Region (2021-2032)
- Figure 16. United States Agricultural Grade Polyglutamic Acid Consumption (2021-2032) & (Tons)
- Figure 17. China Agricultural Grade Polyglutamic Acid Consumption (2021-2032) & (Tons)
- Figure 18. Europe Agricultural Grade Polyglutamic Acid Consumption (2021-2032) & (Tons)
- Figure 19. Japan Agricultural Grade Polyglutamic Acid Consumption (2021-2032) & (Tons)
- Figure 20. South Korea Agricultural Grade Polyglutamic Acid Consumption (2021-2032) & (Tons)
- Figure 21. ASEAN Agricultural Grade Polyglutamic Acid Consumption (2021-2032) & (Tons)

Figure 22. India Agricultural Grade Polyglutamic Acid Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of Agricultural Grade Polyglutamic Acid by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Agricultural Grade Polyglutamic Acid Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Agricultural Grade Polyglutamic Acid Markets in 2025

Figure 26. United States VS China: Agricultural Grade Polyglutamic Acid Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Agricultural Grade Polyglutamic Acid Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Agricultural Grade Polyglutamic Acid Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Agricultural Grade Polyglutamic Acid Production Market Share 2025

Figure 30. China Based Manufacturers Agricultural Grade Polyglutamic Acid Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Agricultural Grade Polyglutamic Acid Production Market Share 2025

Figure 32. World Agricultural Grade Polyglutamic Acid Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Agricultural Grade Polyglutamic Acid Production Value Market Share by Type in 2025

Figure 34. Powder

Figure 35. Aquae

Figure 36. Others

Figure 37. World Agricultural Grade Polyglutamic Acid Production Market Share by Type (2021-2032)

Figure 38. World Agricultural Grade Polyglutamic Acid Production Value Market Share by Type (2021-2032)

Figure 39. World Agricultural Grade Polyglutamic Acid Average Price by Type (2021-2032) & (US\$/Ton)

Figure 40. World Agricultural Grade Polyglutamic Acid Production Value by Molecular Weight, (USD Million), 2021 & 2025 & 2032

Figure 41. World Agricultural Grade Polyglutamic Acid Production Value Market Share by Molecular Weight in 2025

Figure 42. Low Molecular Weight PGA (2,000,000 Da)

Figure 45. World Agricultural Grade Polyglutamic Acid Production Market Share by

Molecular Weight (2021-2032)

Figure 46. World Agricultural Grade Polyglutamic Acid Production Value Market Share by Molecular Weight (2021-2032)

Figure 47. World Agricultural Grade Polyglutamic Acid Average Price by Molecular Weight (2021-2032) & (US\$/Ton)

Figure 48. World Agricultural Grade Polyglutamic Acid Production Value by Polymerization Degree, (USD Million), 2021 & 2025 & 2032

Figure 49. World Agricultural Grade Polyglutamic Acid Production Value Market Share by Polymerization Degree in 2025

Figure 50. Low-polymerization Degree

Figure 51. Medium-polymerization Degree

Figure 52. High-polymerization Degree

Figure 53. World Agricultural Grade Polyglutamic Acid Production Market Share by Polymerization Degree (2021-2032)

Figure 54. World Agricultural Grade Polyglutamic Acid Production Value Market Share by Polymerization Degree (2021-2032)

Figure 55. World Agricultural Grade Polyglutamic Acid Average Price by Polymerization Degree (2021-2032) & (US\$/Ton)

Figure 56. World Agricultural Grade Polyglutamic Acid Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Agricultural Grade Polyglutamic Acid Production Value Market Share by Application in 2025

Figure 58. Soil Improvement

Figure 59. Fertilizer Enhancement

Figure 60. Plant Growth Promotion

Figure 61. Others

Figure 62. World Agricultural Grade Polyglutamic Acid Production Market Share by Application (2021-2032)

Figure 63. World Agricultural Grade Polyglutamic Acid Production Value Market Share by Application (2021-2032)

Figure 64. World Agricultural Grade Polyglutamic Acid Average Price by Application (2021-2032) & (US\$/Ton)

Figure 65. Agricultural Grade Polyglutamic Acid Industry Chain

Figure 66. Agricultural Grade Polyglutamic Acid Procurement Model

Figure 67. Agricultural Grade Polyglutamic Acid Sales Model

Figure 68. Agricultural Grade Polyglutamic Acid Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

## I would like to order

Product name: Global Agricultural Grade Polyglutamic Acid Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/G738A7075A8CEN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G738A7075A8CEN.html>