

Global Biological Glufosinate-Ammonium Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GFBEB84DC989EN.html>

Date: September 2026

Pages: 113

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

ID: GFBEB84DC989EN

Abstracts

The global Biological Glufosinate-Ammonium market size is expected to reach \$ 503 million by 2032, rising at a market growth of 10.9% CAGR during the forecast period (2026-2032).

Biological Glufosinate-Ammonium refers to technical-grade glufosinate-P produced through biological manufacturing processes in which biocatalysis plays a critical role in stereoselective synthesis, isomer conversion or chiral precursor preparation. The product is based on the herbicidally active L-glufosinate component and is primarily manufactured through enzymatic conversion of racemic glufosinate, fermentation-derived chiral precursor routes or other commercially viable biocatalytic processes. A representative pathway converts the less-active D-isomer in racemic glufosinate into the herbicidally active L-isomer through enzymatic reactions, improving active-isomer utilization and raw-material efficiency. Biological Glufosinate-Ammonium technical material is mainly supplied to pesticide formulators and crop-protection companies for further processing into herbicide formulations used in field crops, horticultural crops, plantation and forestry crops and other weed-control applications.

Key Findings

China is the principal manufacturing base for Biological Glufosinate-Ammonium technical material

Enzymatic deracemization is the most representative commercial biomanufacturing route

Commercial supply is concentrated among a limited number of established technical active ingredient producers

Field Crops represent the principal downstream application category

Competition is shifting from process commercialization toward manufacturing cost and operational efficiency

Market Trends

Biological Glufosinate-Ammonium is moving from technology industrialization toward large-scale, integrated and cost-oriented manufacturing. Process development increasingly focuses on improving enzyme activity and stability, increasing substrate concentration, optimizing multi-enzyme reaction systems, extending catalyst life and reducing downstream separation and purification costs. The competitive objective is therefore shifting from achieving high L-isomer selectivity toward lowering overall manufacturing cost while maintaining consistent technical-grade quality. Integration with upstream racemic glufosinate or fermentation-derived chiral precursors is becoming increasingly important, as feedstock availability, intermediate cost and purification efficiency directly influence production economics. Over the longer term, continuous biocatalytic processing, improved enzyme productivity, catalyst reuse and closer integration between biological conversion and chemical processing are expected to remain important directions of technology development.

Market Dynamics

Drivers

The principal market driver is the improved utilization of the herbicidally active L-isomer compared with conventional racemic glufosinate. Biocatalytic conversion can increase the proportion of active L-glufosinate, improving active-ingredient efficiency and supporting more efficient formulation, transportation and application. Demand is also supported by the established role of glufosinate-based herbicides in broad-acre agriculture and other weed-management systems. On the supply side, continued industrialization of enzyme-based processes is reducing scale-up uncertainty and supporting further investment in manufacturing capacity, enzyme engineering and process optimization.

Restraints

Market development remains constrained by the economics and operating complexity of biocatalytic manufacturing. Enzyme preparation, catalyst stability, substrate concentration, conversion efficiency, reaction control and downstream purification all affect production cost. Biological routes also face competition from conventional glufosinate and alternative Glufosinate-P synthesis technologies, placing continued pressure on product pricing and manufacturing margins. Differences in pesticide registration requirements, technical standards and formulation specifications across countries may also increase the time and cost required for technical active ingredient suppliers to expand internationally.

Opportunities

Future opportunities are mainly associated with further substitution of racemic glufosinate, broader adoption of L-glufosinate-based weed-control systems and deeper participation in global crop-protection supply chains. Producers with integrated racemic glufosinate feedstock, proprietary enzyme systems or fermentation-derived chiral intermediates may achieve stronger cost competitiveness through improved raw-material utilization and process efficiency. Long-term technical active ingredient supply, contract manufacturing and technology cooperation with international crop-protection companies also provide opportunities for manufacturers capable of delivering consistent quality, reliable supply and registration support.

Challenges

The industry's long-term challenge is the transition from technology-driven scarcity toward cost-driven competition. As additional biological manufacturing projects enter commercial operation, supply expansion may place greater pressure on capacity utilization, pricing and profitability. Producers need to continuously improve enzyme performance, conversion yield, reaction efficiency and separation economics while maintaining consistent technical quality and optical purity. Intellectual property, biological catalyst protection and accumulated industrial process know-how remain important barriers because apparently similar biocatalytic routes can differ significantly in manufacturing cost, operational stability and scalability.

Industry Chain Analysis

The upstream chain of Biological Glufosinate-Ammonium includes racemic glufosinate and related phosphorus-containing intermediates, L-homoserine and other chiral precursors, enzymes and microbial production systems, fermentation materials, cofactors, auxiliary chemicals, solvents and separation materials. Different manufacturing routes have different upstream requirements. Racemic-glufosinate-based enzymatic conversion benefits from integration with conventional glufosinate production, while fermentation-derived precursor routes place greater emphasis on strain performance, fermentation efficiency and chiral-intermediate economics. Feedstock integration, enzyme productivity and catalyst reuse are therefore important determinants of manufacturing cost and supply stability.

The midstream segment covers enzyme preparation, stereoselective bioconversion, reaction control, separation, purification and standardization of technical active ingredient. This stage represents the core value-creation segment because production economics depend on both conversion efficiency and downstream processing performance. Downstream customers are primarily pesticide formulators and crop-protection companies that convert technical material into registered herbicide formulations. Manufacturers with integrated feedstock supply, stable product quality, industrial-scale production and established customer relationships generally have stronger supply-chain competitiveness.

Segment Insights

By biomanufacturing route, enzymatic deracemization is the most representative commercial pathway, generally using racemic glufosinate as feedstock and converting the less-active D-isomer toward the herbicidally active L-isomer. Fermentation-derived chiral precursor routes represent another important technological direction, while other biocatalytic synthesis methods remain relatively specialized. As industrialization progresses, competition among different routes is increasingly determined by feedstock cost, enzyme or strain productivity, substrate concentration, conversion efficiency and downstream purification requirements rather than technical feasibility alone.

By technical purity, mainstream technical-grade specifications constitute the core of current commercial supply, while higher-purity products mainly serve differentiated requirements. By feedstock route, racemic-glufosinate-based processes currently have the clearest industrial foundation, while L-homoserine and other chiral precursor routes

provide alternative integration strategies. By downstream application, Field Crops form the principal demand category; Horticultural Crops cover fruit, vine and vegetable production; Plantation & Forestry Crops cover perennial plantation and forestry applications; and Other includes remaining agricultural and non-crop weed-control uses.

Downstream Market Opportunities

Field Crops represent the most important downstream opportunity for Biological Glufosinate-Ammonium, supported by broad demand for non-selective weed control in soybean, corn, cotton and other large-scale cropping systems. Horticultural Crops provide diversified demand in fruit, vine and vegetable production, while Plantation & Forestry Crops extend the addressable market into perennial production systems and forestry management. Other applications cover remaining agricultural and non-crop weed-control uses. For technical active ingredient manufacturers, future growth will depend primarily on securing long-term formulation customers, supporting product registrations and establishing reliable international supply.

Regional Insights

Production of Biological Glufosinate-Ammonium has historically been concentrated in China and Germany, with China now serving as the principal manufacturing base due to its integrated glufosinate supply chain, biocatalytic engineering capability and large-scale agrochemical manufacturing infrastructure. Germany was historically represented by BASF, which ceased production of glufosinate active ingredient in Germany by the end of 2024. Since then, commercial technical active ingredient supply has become increasingly concentrated among Chinese producers, strengthening China's role in global manufacturing, cost optimization and export-oriented supply.

North America and Latin America are important downstream demand regions because of their large-scale agricultural sectors and established use of glufosinate-based weed-control systems. Europe and the rest of Asia-Pacific are relatively more fragmented, with demand shaped by local pesticide registrations, crop structures and formulation portfolios. In mature import markets, product consistency, supply reliability and registration support are increasingly important purchasing criteria, while emerging agricultural markets provide additional opportunities as L-glufosinate-based products become more widely available.

Competitive Landscape Analysis

The Biological Glufosinate-Ammonium technical market is relatively concentrated, with major participants during the study period including Lier Chemical, YongNong Biosciences, Zhejiang Xinan Chemical Industrial Group, Limin Group, Shandong Luba Chemical, Jiangsu Sevencontinent Green Chemical and BASF. BASF previously produced glufosinate active ingredient in Germany and ceased the relevant production by the end of 2024, after which commercial supply became further concentrated among Chinese producers. Competitive differentiation is driven less by individual technical-grade specifications and more by manufacturing scale, maturity of biocatalytic processes, upstream feedstock integration, production cost, product consistency, registration capability and customer relationships. Leading producers benefit from integrated raw-material and technical active ingredient manufacturing systems, while other established suppliers continue to strengthen their positions through process optimization, capacity development and customer expansion. As biological manufacturing becomes more widely commercialized, competition is expected to shift further toward enzyme efficiency, conversion yield, capacity utilization, integrated production economics and global supply capability.

Report Scope

This report studies the global Biological Glufosinate-Ammonium production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Biological Glufosinate-Ammonium 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 Biological Glufosinate-Ammonium that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Biological Glufosinate-Ammonium total production and demand,
2021-2032, (Tons)

Global Biological Glufosinate-Ammonium total production value, 2021-2032,
(USD Million)

Global Biological Glufosinate-Ammonium production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Biological Glufosinate-Ammonium consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Biological Glufosinate-Ammonium domestic production, consumption, key domestic manufacturers and share

Global Biological Glufosinate-Ammonium production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Biological Glufosinate-Ammonium production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Biological Glufosinate-Ammonium production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Biological Glufosinate-Ammonium 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 Lier Chemical, YongNong Biosciences, Zhejiang Xinan Chemical Industrial Group, Limin Group, Shandong Luba Chemical, Jiangsu Sevencontinent Green Chemical, BASF, 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 Biological Glufosinate-Ammonium 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 Biological Glufosinate-Ammonium Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Biological Glufosinate-Ammonium Market, Segmentation by Type:

Enzymatic Deracemization

Fermentation-derived Chiral Precursor

Other

Global Biological Glufosinate-Ammonium Market, Segmentation by Technical Purity:

90% Grade

Above 90% Grade

Global Biological Glufosinate-Ammonium Market, Segmentation by Feedstock Route:

Racemic Glufosinate-based

L-Homoserine-based

Other

Global Biological Glufosinate-Ammonium Market, Segmentation by Application:

Field Crops

Horticultural Crops

Plantation & Forestry Crops

Other

Companies Profiled:

Lier Chemical

YongNong Biosciences

Zhejiang Xinan Chemical Industrial Group

Limin Group

Shandong Luba Chemical

Jiangsu Sevencontinent Green Chemical

BASF

Key Questions Answered

1. How big is the global Biological Glufosinate-Ammonium market?
2. What is the demand of the global Biological Glufosinate-Ammonium market?
3. What is the year over year growth of the global Biological Glufosinate-Ammonium market?
4. What is the total value of the global Biological Glufosinate-Ammonium market?
5. Who are the Major Players in the global Biological Glufosinate-Ammonium market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Biological Glufosinate-Ammonium Demand (2021-2032)
- 2.2 World Biological Glufosinate-Ammonium Consumption by Region
 - 2.2.1 World Biological Glufosinate-Ammonium Consumption by Region (2021-2026)
 - 2.2.2 World Biological Glufosinate-Ammonium Consumption Forecast by Region (2027-2032)
- 2.3 United States Biological Glufosinate-Ammonium Consumption (2021-2032)
- 2.4 China Biological Glufosinate-Ammonium Consumption (2021-2032)
- 2.5 Europe Biological Glufosinate-Ammonium Consumption (2021-2032)
- 2.6 Japan Biological Glufosinate-Ammonium Consumption (2021-2032)
- 2.7 South Korea Biological Glufosinate-Ammonium Consumption (2021-2032)
- 2.8 ASEAN Biological Glufosinate-Ammonium Consumption (2021-2032)
- 2.9 India Biological Glufosinate-Ammonium Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Biological Glufosinate-Ammonium Production Value by Manufacturer (2021-2026)
- 3.2 World Biological Glufosinate-Ammonium Production by Manufacturer (2021-2026)
- 3.3 World Biological Glufosinate-Ammonium Average Price by Manufacturer (2021-2026)
- 3.4 Biological Glufosinate-Ammonium Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Biological Glufosinate-Ammonium Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Biological Glufosinate-Ammonium in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Biological Glufosinate-Ammonium in 2025
- 3.6 Biological Glufosinate-Ammonium Market: Overall Company Footprint Analysis
 - 3.6.1 Biological Glufosinate-Ammonium Market: Region Footprint
 - 3.6.2 Biological Glufosinate-Ammonium Market: Company Product Type Footprint
 - 3.6.3 Biological Glufosinate-Ammonium 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: Biological Glufosinate-Ammonium Production Value Comparison
 - 4.1.1 United States VS China: Biological Glufosinate-Ammonium Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Biological Glufosinate-Ammonium Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Biological Glufosinate-Ammonium Production Comparison
 - 4.2.1 United States VS China: Biological Glufosinate-Ammonium Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Biological Glufosinate-Ammonium Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Biological Glufosinate-Ammonium Consumption Comparison
 - 4.3.1 United States VS China: Biological Glufosinate-Ammonium Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Biological Glufosinate-Ammonium Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Biological Glufosinate-Ammonium Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Biological Glufosinate-Ammonium Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Biological Glufosinate-Ammonium Production Value (2021-2026)

4.4.3 United States Based Manufacturers Biological Glufosinate-Ammonium Production (2021-2026)

4.5 China Based Biological Glufosinate-Ammonium Manufacturers and Market Share

4.5.1 China Based Biological Glufosinate-Ammonium Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Biological Glufosinate-Ammonium Production Value (2021-2026)

4.5.3 China Based Manufacturers Biological Glufosinate-Ammonium Production (2021-2026)

4.6 Rest of World Based Biological Glufosinate-Ammonium Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Biological Glufosinate-Ammonium Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Biological Glufosinate-Ammonium Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Biological Glufosinate-Ammonium Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Biological Glufosinate-Ammonium Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Enzymatic Deracemization

5.2.2 Fermentation-derived Chiral Precursor

5.2.3 Other

5.3 Market Segment by Type

5.3.1 World Biological Glufosinate-Ammonium Production by Type (2021-2032)

5.3.2 World Biological Glufosinate-Ammonium Production Value by Type (2021-2032)

5.3.3 World Biological Glufosinate-Ammonium Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TECHNICAL PURITY

6.1 World Biological Glufosinate-Ammonium Market Size Overview by Technical Purity: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Technical Purity

6.2.1 90% Grade

6.2.2 Above 90% Grade

6.3 Market Segment by Technical Purity

6.3.1 World Biological Glufosinate-Ammonium Production by Technical Purity (2021-2032)

6.3.2 World Biological Glufosinate-Ammonium Production Value by Technical Purity (2021-2032)

6.3.3 World Biological Glufosinate-Ammonium Average Price by Technical Purity (2021-2032)

7 MARKET ANALYSIS BY FEEDSTOCK ROUTE

7.1 World Biological Glufosinate-Ammonium Market Size Overview by Feedstock Route: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Feedstock Route

7.2.1 Racemic Glufosinate-based

7.2.2 L-Homoserine-based

7.2.3 Other

7.3 Market Segment by Feedstock Route

7.3.1 World Biological Glufosinate-Ammonium Production by Feedstock Route (2021-2032)

7.3.2 World Biological Glufosinate-Ammonium Production Value by Feedstock Route (2021-2032)

7.3.3 World Biological Glufosinate-Ammonium Average Price by Feedstock Route (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Biological Glufosinate-Ammonium Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Field Crops

8.2.2 Horticultural Crops

8.2.3 Plantation & Forestry Crops

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Biological Glufosinate-Ammonium Production by Application (2021-2032)

8.3.2 World Biological Glufosinate-Ammonium Production Value by Application (2021-2032)

8.3.3 World Biological Glufosinate-Ammonium Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Lier Chemical

9.1.1 Lier Chemical Details

9.1.2 Lier Chemical Major Business

9.1.3 Lier Chemical Biological Glufosinate-Ammonium Product and Services

9.1.4 Lier Chemical Biological Glufosinate-Ammonium Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Lier Chemical Recent Developments/Updates

9.1.6 Lier Chemical Competitive Strengths & Weaknesses

9.2 YongNong Biosciences

9.2.1 YongNong Biosciences Details

9.2.2 YongNong Biosciences Major Business

9.2.3 YongNong Biosciences Biological Glufosinate-Ammonium Product and Services

9.2.4 YongNong Biosciences Biological Glufosinate-Ammonium Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 YongNong Biosciences Recent Developments/Updates

9.2.6 YongNong Biosciences Competitive Strengths & Weaknesses

9.3 Zhejiang Xinan Chemical Industrial Group

9.3.1 Zhejiang Xinan Chemical Industrial Group Details

9.3.2 Zhejiang Xinan Chemical Industrial Group Major Business

9.3.3 Zhejiang Xinan Chemical Industrial Group Biological Glufosinate-Ammonium Product and Services

9.3.4 Zhejiang Xinan Chemical Industrial Group Biological Glufosinate-Ammonium Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Zhejiang Xinan Chemical Industrial Group Recent Developments/Updates

9.3.6 Zhejiang Xinan Chemical Industrial Group Competitive Strengths & Weaknesses

9.4 Limin Group

9.4.1 Limin Group Details

9.4.2 Limin Group Major Business

9.4.3 Limin Group Biological Glufosinate-Ammonium Product and Services

9.4.4 Limin Group Biological Glufosinate-Ammonium Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Limin Group Recent Developments/Updates

9.4.6 Limin Group Competitive Strengths & Weaknesses

9.5 Shandong Luba Chemical

9.5.1 Shandong Luba Chemical Details

9.5.2 Shandong Luba Chemical Major Business

9.5.3 Shandong Luba Chemical Biological Glufosinate-Ammonium Product and Services

9.5.4 Shandong Luba Chemical Biological Glufosinate-Ammonium Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Shandong Luba Chemical Recent Developments/Updates

9.5.6 Shandong Luba Chemical Competitive Strengths & Weaknesses

9.6 Jiangsu Sevencontinent Green Chemical

9.6.1 Jiangsu Sevencontinent Green Chemical Details

9.6.2 Jiangsu Sevencontinent Green Chemical Major Business

9.6.3 Jiangsu Sevencontinent Green Chemical Biological Glufosinate-Ammonium Product and Services

9.6.4 Jiangsu Sevencontinent Green Chemical Biological Glufosinate-Ammonium Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Jiangsu Sevencontinent Green Chemical Recent Developments/Updates

9.6.6 Jiangsu Sevencontinent Green Chemical Competitive Strengths & Weaknesses

9.7 BASF

9.7.1 BASF Details

9.7.2 BASF Major Business

9.7.3 BASF Biological Glufosinate-Ammonium Product and Services

9.7.4 BASF Biological Glufosinate-Ammonium Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 BASF Recent Developments/Updates

9.7.6 BASF Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Biological Glufosinate-Ammonium Industry Chain

10.2 Biological Glufosinate-Ammonium Upstream Analysis

10.2.1 Biological Glufosinate-Ammonium Core Raw Materials

10.2.2 Main Manufacturers of Biological Glufosinate-Ammonium Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Biological Glufosinate-Ammonium Production Mode

10.6 Biological Glufosinate-Ammonium Procurement Model

10.7 Biological Glufosinate-Ammonium Industry Sales Model and Sales Channels

10.7.1 Biological Glufosinate-Ammonium Sales Model

10.7.2 Biological Glufosinate-Ammonium 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 Biological Glufosinate-Ammonium Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Biological Glufosinate-Ammonium Production Value by Region (2021-2026) & (USD Million)

Table 3. World Biological Glufosinate-Ammonium Production Value by Region (2027-2032) & (USD Million)

Table 4. World Biological Glufosinate-Ammonium Production Value Market Share by Region (2021-2026)

Table 5. World Biological Glufosinate-Ammonium Production Value Market Share by Region (2027-2032)

Table 6. World Biological Glufosinate-Ammonium Production by Region (2021-2026) & (Tons)

Table 7. World Biological Glufosinate-Ammonium Production by Region (2027-2032) & (Tons)

Table 8. World Biological Glufosinate-Ammonium Production Market Share by Region (2021-2026)

Table 9. World Biological Glufosinate-Ammonium Production Market Share by Region (2027-2032)

Table 10. World Biological Glufosinate-Ammonium Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Biological Glufosinate-Ammonium Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Biological Glufosinate-Ammonium Major Market Trends

Table 13. World Biological Glufosinate-Ammonium Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Biological Glufosinate-Ammonium Consumption by Region (2021-2026) & (Tons)

Table 15. World Biological Glufosinate-Ammonium Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Biological Glufosinate-Ammonium Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Biological Glufosinate-Ammonium Producers in 2025

Table 18. World Biological Glufosinate-Ammonium Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Biological Glufosinate-Ammonium Producers in 2025

Table 20. World Biological Glufosinate-Ammonium Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Biological Glufosinate-Ammonium Company Evaluation Quadrant

Table 22. World Biological Glufosinate-Ammonium Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Biological Glufosinate-Ammonium Production Site of Key Manufacturer

Table 24. Biological Glufosinate-Ammonium Market: Company Product Type Footprint

Table 25. Biological Glufosinate-Ammonium Market: Company Product Application Footprint

Table 26. Biological Glufosinate-Ammonium Competitive Factors

Table 27. Biological Glufosinate-Ammonium New Entrant and Capacity Expansion Plans

Table 28. Biological Glufosinate-Ammonium Mergers & Acquisitions Activity

Table 29. United States VS China Biological Glufosinate-Ammonium Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Biological Glufosinate-Ammonium Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Biological Glufosinate-Ammonium Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Biological Glufosinate-Ammonium Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Biological Glufosinate-Ammonium Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Biological Glufosinate-Ammonium Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Biological Glufosinate-Ammonium Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Biological Glufosinate-Ammonium Production Market Share (2021-2026)

Table 37. China Based Biological Glufosinate-Ammonium Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Biological Glufosinate-Ammonium Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Biological Glufosinate-Ammonium Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Biological Glufosinate-Ammonium Production,

(2021-2026) & (Tons)

Table 41. China Based Manufacturers Biological Glufosinate-Ammonium Production Market Share (2021-2026)

Table 42. Rest of World Based Biological Glufosinate-Ammonium Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Biological Glufosinate-Ammonium Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Biological Glufosinate-Ammonium Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Biological Glufosinate-Ammonium Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Biological Glufosinate-Ammonium Production Market Share (2021-2026)

Table 47. World Biological Glufosinate-Ammonium Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Biological Glufosinate-Ammonium Production by Type (2021-2026) & (Tons)

Table 49. World Biological Glufosinate-Ammonium Production by Type (2027-2032) & (Tons)

Table 50. World Biological Glufosinate-Ammonium Production Value by Type (2021-2026) & (USD Million)

Table 51. World Biological Glufosinate-Ammonium Production Value by Type (2027-2032) & (USD Million)

Table 52. World Biological Glufosinate-Ammonium Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Biological Glufosinate-Ammonium Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Biological Glufosinate-Ammonium Production Value by Technical Purity, (USD Million), 2021 & 2025 & 2032

Table 55. World Biological Glufosinate-Ammonium Production by Technical Purity (2021-2026) & (Tons)

Table 56. World Biological Glufosinate-Ammonium Production by Technical Purity (2027-2032) & (Tons)

Table 57. World Biological Glufosinate-Ammonium Production Value by Technical Purity (2021-2026) & (USD Million)

Table 58. World Biological Glufosinate-Ammonium Production Value by Technical Purity (2027-2032) & (USD Million)

Table 59. World Biological Glufosinate-Ammonium Average Price by Technical Purity (2021-2026) & (US\$/Ton)

Table 60. World Biological Glufosinate-Ammonium Average Price by Technical Purity (2027-2032) & (US\$/Ton)

Table 61. World Biological Glufosinate-Ammonium Production Value by Feedstock Route, (USD Million), 2021 & 2025 & 2032

Table 62. World Biological Glufosinate-Ammonium Production by Feedstock Route (2021-2026) & (Tons)

Table 63. World Biological Glufosinate-Ammonium Production by Feedstock Route (2027-2032) & (Tons)

Table 64. World Biological Glufosinate-Ammonium Production Value by Feedstock Route (2021-2026) & (USD Million)

Table 65. World Biological Glufosinate-Ammonium Production Value by Feedstock Route (2027-2032) & (USD Million)

Table 66. World Biological Glufosinate-Ammonium Average Price by Feedstock Route (2021-2026) & (US\$/Ton)

Table 67. World Biological Glufosinate-Ammonium Average Price by Feedstock Route (2027-2032) & (US\$/Ton)

Table 68. World Biological Glufosinate-Ammonium Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Biological Glufosinate-Ammonium Production by Application (2021-2026) & (Tons)

Table 70. World Biological Glufosinate-Ammonium Production by Application (2027-2032) & (Tons)

Table 71. World Biological Glufosinate-Ammonium Production Value by Application (2021-2026) & (USD Million)

Table 72. World Biological Glufosinate-Ammonium Production Value by Application (2027-2032) & (USD Million)

Table 73. World Biological Glufosinate-Ammonium Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Biological Glufosinate-Ammonium Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Lier Chemical Basic Information, Manufacturing Base and Competitors

Table 76. Lier Chemical Major Business

Table 77. Lier Chemical Biological Glufosinate-Ammonium Product and Services

Table 78. Lier Chemical Biological Glufosinate-Ammonium Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Lier Chemical Recent Developments/Updates

Table 80. Lier Chemical Competitive Strengths & Weaknesses

Table 81. YongNong Biosciences Basic Information, Manufacturing Base and

Competitors

Table 82. YongNong Biosciences Major Business

Table 83. YongNong Biosciences Biological Glufosinate-Ammonium Product and Services

Table 84. YongNong Biosciences Biological Glufosinate-Ammonium Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. YongNong Biosciences Recent Developments/Updates

Table 86. YongNong Biosciences Competitive Strengths & Weaknesses

Table 87. Zhejiang Xinan Chemical Industrial Group Basic Information, Manufacturing Base and Competitors

Table 88. Zhejiang Xinan Chemical Industrial Group Major Business

Table 89. Zhejiang Xinan Chemical Industrial Group Biological Glufosinate-Ammonium Product and Services

Table 90. Zhejiang Xinan Chemical Industrial Group Biological Glufosinate-Ammonium Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Zhejiang Xinan Chemical Industrial Group Recent Developments/Updates

Table 92. Zhejiang Xinan Chemical Industrial Group Competitive Strengths & Weaknesses

Table 93. Limin Group Basic Information, Manufacturing Base and Competitors

Table 94. Limin Group Major Business

Table 95. Limin Group Biological Glufosinate-Ammonium Product and Services

Table 96. Limin Group Biological Glufosinate-Ammonium Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Limin Group Recent Developments/Updates

Table 98. Limin Group Competitive Strengths & Weaknesses

Table 99. Shandong Luba Chemical Basic Information, Manufacturing Base and Competitors

Table 100. Shandong Luba Chemical Major Business

Table 101. Shandong Luba Chemical Biological Glufosinate-Ammonium Product and Services

Table 102. Shandong Luba Chemical Biological Glufosinate-Ammonium Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Shandong Luba Chemical Recent Developments/Updates

Table 104. Shandong Luba Chemical Competitive Strengths & Weaknesses

Table 105. Jiangsu Sevencontinent Green Chemical Basic Information, Manufacturing

Base and Competitors

Table 106. Jiangsu Sevencontinent Green Chemical Major Business

Table 107. Jiangsu Sevencontinent Green Chemical Biological Glufosinate-Ammonium Product and Services

Table 108. Jiangsu Sevencontinent Green Chemical Biological Glufosinate-Ammonium Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Jiangsu Sevencontinent Green Chemical Recent Developments/Updates

Table 110. Jiangsu Sevencontinent Green Chemical Competitive Strengths & Weaknesses

Table 111. BASF Basic Information, Manufacturing Base and Competitors

Table 112. BASF Major Business

Table 113. BASF Biological Glufosinate-Ammonium Product and Services

Table 114. BASF Biological Glufosinate-Ammonium Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. BASF Recent Developments/Updates

Table 116. BASF Competitive Strengths & Weaknesses

Table 117. Global Key Players of Biological Glufosinate-Ammonium Upstream (Raw Materials)

Table 118. Global Biological Glufosinate-Ammonium Typical Customers

Table 119. Biological Glufosinate-Ammonium Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Biological Glufosinate-Ammonium Picture

Figure 2. World Biological Glufosinate-Ammonium Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Biological Glufosinate-Ammonium Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Biological Glufosinate-Ammonium Production (2021-2032) & (Tons)

Figure 5. World Biological Glufosinate-Ammonium Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Biological Glufosinate-Ammonium Production Value Market Share by Region (2021-2032)

Figure 7. World Biological Glufosinate-Ammonium Production Market Share by Region (2021-2032)

Figure 8. Europe Biological Glufosinate-Ammonium Production (2021-2032) & (Tons)

Figure 9. China Biological Glufosinate-Ammonium Production (2021-2032) & (Tons)

Figure 10. Biological Glufosinate-Ammonium Market Drivers

Figure 11. Factors Affecting Demand

Figure 12. World Biological Glufosinate-Ammonium Consumption (2021-2032) & (Tons)

Figure 13. World Biological Glufosinate-Ammonium Consumption Market Share by Region (2021-2032)

Figure 14. United States Biological Glufosinate-Ammonium Consumption (2021-2032) & (Tons)

Figure 15. China Biological Glufosinate-Ammonium Consumption (2021-2032) & (Tons)

Figure 16. Europe Biological Glufosinate-Ammonium Consumption (2021-2032) & (Tons)

Figure 17. Japan Biological Glufosinate-Ammonium Consumption (2021-2032) & (Tons)

Figure 18. South Korea Biological Glufosinate-Ammonium Consumption (2021-2032) & (Tons)

Figure 19. ASEAN Biological Glufosinate-Ammonium Consumption (2021-2032) & (Tons)

Figure 20. India Biological Glufosinate-Ammonium Consumption (2021-2032) & (Tons)

Figure 21. Producer Shipments of Biological Glufosinate-Ammonium by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 22. Global Four-firm Concentration Ratios (CR4) for Biological Glufosinate-Ammonium Markets in 2025

Figure 23. Global Four-firm Concentration Ratios (CR8) for Biological Glufosinate-

Ammonium Markets in 2025

Figure 24. United States VS China: Biological Glufosinate-Ammonium Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 25. United States VS China: Biological Glufosinate-Ammonium Production Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Biological Glufosinate-Ammonium Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States Based Manufacturers Biological Glufosinate-Ammonium Production Market Share 2025

Figure 28. China Based Manufacturers Biological Glufosinate-Ammonium Production Market Share 2025

Figure 29. Rest of World Based Manufacturers Biological Glufosinate-Ammonium Production Market Share 2025

Figure 30. World Biological Glufosinate-Ammonium Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 31. World Biological Glufosinate-Ammonium Production Value Market Share by Type in 2025

Figure 32. Enzymatic Deracemization

Figure 33. Fermentation-derived Chiral Precursor

Figure 34. Other

Figure 35. World Biological Glufosinate-Ammonium Production Market Share by Type (2021-2032)

Figure 36. World Biological Glufosinate-Ammonium Production Value Market Share by Type (2021-2032)

Figure 37. World Biological Glufosinate-Ammonium Average Price by Type (2021-2032) & (US\$/Ton)

Figure 38. World Biological Glufosinate-Ammonium Production Value by Technical Purity, (USD Million), 2021 & 2025 & 2032

Figure 39. World Biological Glufosinate-Ammonium Production Value Market Share by Technical Purity in 2025

Figure 40. 90% Grade

Figure 41. Above 90% Grade

Figure 42. World Biological Glufosinate-Ammonium Production Market Share by Technical Purity (2021-2032)

Figure 43. World Biological Glufosinate-Ammonium Production Value Market Share by Technical Purity (2021-2032)

Figure 44. World Biological Glufosinate-Ammonium Average Price by Technical Purity (2021-2032) & (US\$/Ton)

Figure 45. World Biological Glufosinate-Ammonium Production Value by Feedstock

Route, (USD Million), 2021 & 2025 & 2032

Figure 46. World Biological Glufosinate-Ammonium Production Value Market Share by Feedstock Route in 2025

Figure 47. Racemic Glufosinate-based

Figure 48. L-Homoserine-based

Figure 49. Other

Figure 50. World Biological Glufosinate-Ammonium Production Market Share by Feedstock Route (2021-2032)

Figure 51. World Biological Glufosinate-Ammonium Production Value Market Share by Feedstock Route (2021-2032)

Figure 52. World Biological Glufosinate-Ammonium Average Price by Feedstock Route (2021-2032) & (US\$/Ton)

Figure 53. World Biological Glufosinate-Ammonium Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 54. World Biological Glufosinate-Ammonium Production Value Market Share by Application in 2025

Figure 55. Field Crops

Figure 56. Horticultural Crops

Figure 57. Plantation & Forestry Crops

Figure 58. Other

Figure 59. World Biological Glufosinate-Ammonium Production Market Share by Application (2021-2032)

Figure 60. World Biological Glufosinate-Ammonium Production Value Market Share by Application (2021-2032)

Figure 61. World Biological Glufosinate-Ammonium Average Price by Application (2021-2032) & (US\$/Ton)

Figure 62. Biological Glufosinate-Ammonium Industry Chain

Figure 63. Biological Glufosinate-Ammonium Procurement Model

Figure 64. Biological Glufosinate-Ammonium Sales Model

Figure 65. Biological Glufosinate-Ammonium Sales Channels, Direct Sales, and Distribution

Figure 66. Methodology

Figure 67. Research Process and Data Source

I would like to order

Product name: Global Biological Glufosinate-Ammonium Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/GFBEB84DC989EN.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

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GFBEB84DC989EN.html>