

Global Alanyl-Glutamine 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 Alanyl-Glutamine market size was valued at US\$ 167 million in 2025 and is forecast to a readjusted size of US\$ 251 million by 2032 with a CAGR of 5.8% during review period.

In 2025, global sales volume of alanyl-glutamine reached 1,554 metric tons, with an average price of \$104.5 per kilogram.

Alanyl-Glutamine is a dipeptide composed of the amino acids L-alanine and L-glutamine. It is a highly stable and water-soluble form of glutamine designed to overcome the limitations of free glutamine, which is chemically unstable in solution and heat-sensitive. Because of this, Alanyl-Glutamine is widely used in medical nutrition, sports supplements, and other fields.

The Alanyl-Glutamine market is a specialty amino acid derivative market with stable growth potential. Unlike commodity amino acids, Alanyl-Glutamine is mainly valued for its higher stability, better solubility, and suitability for high-value applications such as pharmaceuticals, clinical nutrition, sports nutrition, functional foods, and cell culture media. The market is relatively small in volume but high in unit value, and future growth will be driven more by product quality, application expansion, and regulatory compliance than by simple capacity expansion.

From the production route perspective, Enzymatic & Fermentation Synthesis is expected to remain the dominant route because it offers better selectivity, cleaner production, and stronger suitability for nutrition and pharmaceutical applications. Enzymatic & Fermentation Synthesis was US\$ 99.58 million in 2025, with a market

share 61.29%. Chemical Synthesis / Condensation will continue to play an important role in pharmaceutical-grade, high-purity, and specialty applications, especially where impurity control and batch consistency are critical. Other routes will remain limited to small-volume or customized production.

From the application perspective, the Pharmaceuticals Industry is the largest downstream market, with a revenue share of 40.33% in 2025, mainly supported by parenteral nutrition, clinical nutrition, medical nutrition, and API demand. Sports Nutrition & Supplements is the fastest-growing mainstream application, especially in North America, driven by hydration, recovery, endurance, and active-lifestyle nutrition trends. Food & Beverages has steady growth potential, but its application overlaps partly with sports nutrition. Animal Feed remains a minor application because Alanyl-Glutamine is relatively expensive and is not suitable for large-scale commodity feed use. The Others segment, especially cell culture media and biopharmaceutical applications, has high growth potential and higher average selling prices.

From the regional perspective, US & Canada is the largest sales region, reached US\$ 67.14 Million in 2025, supported by strong sports nutrition, dietary supplement, biopharmaceutical, and medical nutrition demand. Europe is a mature and regulated market, with demand concentrated in pharmaceuticals, clinical nutrition, and high-quality functional ingredients. Asia-Pacific, especially China, is the fastest-growing major region, supported by API production, clinical nutrition demand, domestic pharmaceutical supply chains, and expanding nutrition applications. Middle East, Africa, and Latin America currently account for a small share and rely mainly on imports, but demand is gradually increasing in medical nutrition and functional nutrition.

From the competitive landscape perspective, the market is led by international amino acid, biotechnology, and specialty ingredient companies, while Chinese manufacturers are becoming increasingly important in API, nutrition-grade, and cost-competitive supply. International suppliers generally have advantages in brand recognition, high-purity grades, technical documentation, and global customer qualification. Chinese suppliers have advantages in manufacturing cost, API production capacity, and flexible supply, but they still need to strengthen regulatory documentation, quality consistency, and high-end application development. The top 5 listed companies accounted for 80.11% of the market share in 2025 in terms of revenue.

Overall, the Alanyl-Glutamine market is expected to maintain moderate but stable growth. The most attractive opportunities are in pharmaceutical and medical nutrition, sports nutrition, and cell culture/biopharmaceutical applications. Future competition will

focus on production route optimization, high-purity product grades, regulatory compliance, customer qualification, and differentiated application development, rather than only on price competition.

This report is a detailed and comprehensive analysis for global Alanyl-Glutamine 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 Alanyl-Glutamine market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

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

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

Global Alanyl-Glutamine market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 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 Alanyl-Glutamine

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 Alanyl-Glutamine 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 Ajinomoto (JP), Shandong Chenghui Pharmaceutical Group (CN), Kyowa Hakko Bio (JP), Evonik (DE), Wuhan Microsen Technology (CN), Jiangsu Chengxin Pharmaceutical (CN), Jingjing Pharmaceutical (CN), Minsheng Group Shaoxing Pharmaceutical (CN), Shandong Chenlong Pharmaceutical (CN), etc.

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

Market Segmentation

Alanyl-Glutamine 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

- Condensation

- Enzymatic Synthesis

- Others

Market segment by Grade

- Pharmaceutical Grade

- Food Grade

- Feed Grade

Market segment by Channel

Online

Offline

Market segment by Application

Pharmaceuticals Industry

Food & Beverages

Sports Nutrition & Supplements

Animal Feed

Others

Major players covered

Ajinomoto (JP)

Shandong Chenghui Pharmaceutical Group (CN)

Kyowa Hakko Bio (JP)

Evonik (DE)

Wuhan Microsen Technology (CN)

Jiangsu Chengxin Pharmaceutical (CN)

Jingjing Pharmaceutical (CN)

Minsheng Group Shaoxing Pharmaceutical (CN)

Shandong Chenlong Pharmaceutical (CN)

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 Alanyl-Glutamine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Alanyl-Glutamine, with price, sales quantity, revenue, and global market share of Alanyl-Glutamine from 2021 to 2026.

Chapter 3, the Alanyl-Glutamine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Alanyl-Glutamine 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 Alanyl-Glutamine 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 Alanyl-Glutamine.

Chapter 14 and 15, to describe Alanyl-Glutamine sales channel, distributors, customers, research findings and conclusion.

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