

Global Chemically Synthesized 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 Chemically Synthesized Alanyl-Glutamine market size was valued at US\$ 57.78 million in 2025 and is forecast to a readjusted size of US\$ 84.22 million by 2032 with a CAGR of 5.4% during review period.

In 2025, the global sales volume of chemically synthesized alanyl-glutamine reached 516 metric tons, with an average price of \$108.9 per kilogram.

Chemically synthesized alanyl-glutamine (Ala-Gln) refers to a production method that utilizes organic synthesis techniques?such as protecting group strategies, condensation reactions, and deprotection steps?to specifically link L-alanine and L-glutamine (or L-glutamic acid) into a dipeptide. Chemical synthesis methods primarily include liquid-phase synthesis (SPS) and solid-phase peptide synthesis (SPPS), with liquid-phase synthesis serving as the mainstream route for industrial production. The core concept of this method involves introducing protecting groups (such as benzyloxycarbonyl/CBz or tert-butoxycarbonyl/Boc) to shield the α -amino or carboxyl groups of the amino acids and prevent side reactions; subsequently, a condensation agent (such as DCC or the hexachloroethane/triphenylphosphine system) catalyzes the formation of the peptide bond, followed by the removal of protecting groups to yield the final product.

The raw material system for chemically synthesized alanyl-glutamine comprises five major categories: amino acid raw materials, protecting group reagents, condensation agents, solvents and catalysts, and ammonolysis reagents. Amino acid raw materials represent the primary cost component, consisting mainly of L-alanine and L-glutamine (or L-glutamic acid as a substitute). Among these, L-glutamine?valued for its dual utility

as a pharmaceutical raw material and a biochemical food ingredient?is in high demand with steadily rising prices, making it a key factor driving up synthesis costs; conversely, L-glutamic acid is relatively inexpensive and readily available, prompting some companies to develop new production routes using L-glutamic acid to reduce raw material costs. Protecting group reagents include di-tert-butyl dicarbonate (for Boc protection), benzyl chloroformate (for CBz protection), and phthalic anhydride; these are used for the temporary protection of amino acid functional groups and are characterized by high unit prices and significant consumption volumes. Condensing agents such as N,N'-dicyclohexylcarbodiimide (DCC), hexachloroethane, and triphenylphosphine are used to catalyze peptide bond formation; however, DCC is expensive, and the dicyclohexylurea (DCU) byproduct generated after the reaction is highly toxic and difficult to remove. Solvents and catalysts include organic solvents like tetrahydrofuran, dichloromethane, acetone, methanol, thionyl chloride, and trifluoroacetic acid (TFA), as well as catalysts for hydrogenation, such as palladium on carbon (Pd/C). Ammonolysis reagents?primarily concentrated aqueous ammonia or liquid ammonia?are used to convert acyl chloride or ester groups into amide groups.

Regarding the cost structure, raw materials typically account for 50%?70% of the total cost in chemical synthesis, with L-glutamine (or L-glutamic acid) and protecting group reagents representing the largest expenditures; chiral reagents (such as D-?-chloropropionyl chloride) are extremely expensive, severely constraining large-scale industrial production. Solvent and reagent costs account for approximately 15%?25%; large quantities of organic solvents are consumed, recovery costs are high, and certain solvents (e.g., dichloromethane, tetrahydrofuran) are toxic and volatile, resulting in high environmental treatment expenses. Equipment and energy costs make up about 10%?15%; chemical synthesis involves multi-step reactions, low-temperature control, vacuum concentration, and catalytic hydrogenation, placing high demands on equipment such as reaction vessels, distillation columns, and hydrogenation reactors, while also entailing significant energy consumption. Labor and environmental costs account for 5%?15%; the synthesis process involves numerous complex steps requiring highly skilled technical personnel, and the treatment of generated waste liquids, gases, and solids (such as DCU byproducts) is difficult and costly in terms of environmental compliance. Additionally, downstream purification costs (crystallization, recrystallization, column chromatography, etc.) constitute a significant portion of the total, as chemically synthesized products often contain impurities such as racemates and tripeptide or tetrapeptide byproducts, necessitating complex purification processes. Overall, although chemical synthesis methods feature mature processes and controllable reactions, their total production costs are significantly higher than those of fermentation or enzymatic methods. This is due to a reliance on chiral reagents and expensive protecting groups,

complex multi-step procedures, low overall yields (typically 40?60%), and high costs associated with waste treatment; consequently, industrial production has increasingly shifted toward biosynthetic methods in recent years.

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

Global Chemically Synthesized 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 Chemically Synthesized 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 Chemically Synthesized 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 Chemically Synthesized 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 Chemically Synthesized 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 Shandong Chenghui Pharmaceutical Group, Evonik, Minsheng Group Shaoxing Pharmaceutical, Yangzhou NO.3 Pharmaceutical Manufacture, etc.

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

Market Segmentation

Chemically Synthesized 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

Liquid-Phase Synthesis (SPS)

Solid-Phase Synthesis (SPPS)

Market segment by Purity

?95%

?98%

?99%

Market segment by Protecting Group Types

CBz (Carbobenzyloxy) Protection

Boc (tert-Butyloxycarbonyl) Protection

Phthaloyl Protection

Market segment by Application

Pharmaceuticals Industry

Food & Beverages

Sports Nutrition & Supplements

Animal Feed

Others

Major players covered

Shandong Chenghui Pharmaceutical Group

Evonik

Minsheng Group Shaoxing Pharmaceutical

Yangzhou NO.3 Pharmacitical Manufacture

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

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

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

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

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

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