

Global Chemically Synthesized Alanyl-Glutamine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Chemically Synthesized Alanyl-Glutamine market size is expected to reach \$ 84.22 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

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 studies the global Chemically Synthesized Alanyl-Glutamine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Chemically Synthesized Alanyl-Glutamine 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 Chemically Synthesized Alanyl-Glutamine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Chemically Synthesized Alanyl-Glutamine total production and demand, 2021-2032, (Tons)

Global Chemically Synthesized Alanyl-Glutamine total production value, 2021-2032, (USD Million)

Global Chemically Synthesized Alanyl-Glutamine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Chemically Synthesized Alanyl-Glutamine consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Chemically Synthesized Alanyl-Glutamine domestic production, consumption, key domestic manufacturers and share

Global Chemically Synthesized Alanyl-Glutamine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Chemically Synthesized Alanyl-Glutamine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Chemically Synthesized Alanyl-Glutamine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Chemically Synthesized Alanyl-Glutamine 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Chemically Synthesized Alanyl-Glutamine market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) 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 Chemically Synthesized Alanyl-Glutamine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Chemically Synthesized Alanyl-Glutamine Market, Segmentation by Type:

Liquid-Phase Synthesis (SPS)

Solid-Phase Synthesis (SPPS)

Global Chemically Synthesized Alanyl-Glutamine Market, Segmentation by Purity:

?95%

?98%

?99%

Global Chemically Synthesized Alanyl-Glutamine Market, Segmentation by Protecting Group Types:

CBz (Carbobenzyloxy) Protection

Boc (tert-Butyloxycarbonyl) Protection

Phthaloyl Protection

Global Chemically Synthesized Alanyl-Glutamine Market, Segmentation by Application:

Pharmaceuticals Industry

Food & Beverages

Sports Nutrition & Supplements

Animal Feed

Others

Companies Profiled:

Shandong Chenghui Pharmaceutical Group

Evonik

Minsheng Group Shaoxing Pharmaceutical

Yangzhou NO.3 Pharmaceutical Manufacture

Key Questions Answered:

1. How big is the global Chemically Synthesized Alanyl-Glutamine market?
2. What is the demand of the global Chemically Synthesized Alanyl-Glutamine market?
3. What is the year over year growth of the global Chemically Synthesized Alanyl-Glutamine market?
4. What is the production and production value of the global Chemically Synthesized Alanyl-Glutamine market?
5. Who are the key producers in the global Chemically Synthesized Alanyl-Glutamine market?
6. What are the growth factors driving the market demand?

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