

Global Phenylalanine Ammonia-Lyase Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Phenylalanine Ammonia-Lyase market size is expected to reach \$ 63.84 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of Phenylalanine Ammonia-Lyase is estimated at approximately 11 tons, with an average global market price of around USD 3,500/kg. The gross margin of major manufacturers in the industry is generally estimated at about 35%-60%.

Phenylalanine Ammonia-Lyase, abbreviated as PAL, is a biocatalytic enzyme that catalyzes the deamination of L-phenylalanine to produce trans-cinnamic acid and ammonia. It belongs to the ammonia-lyase/phenylalanine ammonia-lyase enzyme family and is not a protease or a conventional hydrolase. Its core value lies in enabling the selective conversion of aromatic amino acid under mild reaction conditions, and it is commonly used in trans-cinnamic acid production, chiral intermediate synthesis, aromatic amino acid derivative conversion, and enzyme engineering screening.

The upstream inputs of Phenylalanine Ammonia-Lyase mainly include engineered strains, fermentation media, inducers, buffer salts, purification resins, stabilizers, lyoprotectants, and packaging materials. In the midstream, products are manufactured into enzyme powder, immobilized enzyme, or whole-cell catalyst through strain construction, fermentation expression, cell disruption, separation and purification, concentration, lyophilization, or immobilization processes. Downstream applications are mainly concentrated in pharmaceutical intermediate, fine chemical, chiral synthesis, and enzyme drug development. Industrial applications focus more on catalytic efficiency, batch-to-batch consistency, and cost control, while pharmaceutical-grade products

place greater emphasis on purity, safety, quality systems, and clinical application compatibility.

This report studies the global Phenylalanine Ammonia-Lyase production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Phenylalanine Ammonia-Lyase total production and demand, 2021-2032, (Tons)

Global Phenylalanine Ammonia-Lyase total production value, 2021-2032, (USD Million)

Global Phenylalanine Ammonia-Lyase production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Phenylalanine Ammonia-Lyase consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Phenylalanine Ammonia-Lyase domestic production, consumption, key domestic manufacturers and share

Global Phenylalanine Ammonia-Lyase production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Phenylalanine Ammonia-Lyase production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Phenylalanine Ammonia-Lyase production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Phenylalanine Ammonia-Lyase 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 Creative Enzymes, BioMarin Pharmaceutical, SyncoZymes, Asymchem, 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 Phenylalanine Ammonia-Lyase 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 Phenylalanine Ammonia-Lyase Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Phenylalanine Ammonia-Lyase Market, Segmentation by Type:

Pharmaceutical Grade

Industrial Grade

Global Phenylalanine Ammonia-Lyase Market, Segmentation by Modification Level:

Wild-type

Engineered Type

Global Phenylalanine Ammonia-Lyase Market, Segmentation by Application:

Pharmaceutical Intermediate

Fine Chemical

Chiral Synthesis

Enzyme Drug Development

Other

Companies Profiled:

Creative Enzymes

BioMarin Pharmaceutical

SyncoZymes

Asymchem

Key Questions Answered:

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

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