

Global Phenylalanine Ammonia-Lyase 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 Phenylalanine Ammonia-Lyase market size was valued at US\$ 39.61 million in 2025 and is forecast to a readjusted size of US\$ 63.84 million by 2032 with a CAGR of 7.0% during review period.

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

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

Global Phenylalanine Ammonia-Lyase 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 Phenylalanine Ammonia-Lyase 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 Phenylalanine Ammonia-Lyase

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 Phenylalanine Ammonia-Lyase 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 Creative Enzymes, BioMarin Pharmaceutical, SyncoZymes, Asymchem, etc.

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

Market Segmentation

Phenylalanine Ammonia-Lyase 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

Pharmaceutical Grade

Industrial Grade

Market segment by Modification Level

Wild-type

Engineered Type

Market segment by Application

Pharmaceutical Intermediate

Fine Chemical

Chiral Synthesis

Enzyme Drug Development

Other

Major players covered

Creative Enzymes

BioMarin Pharmaceutical

SyncoZymes

Asymchem

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 Phenylalanine Ammonia-Lyase product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Phenylalanine Ammonia-Lyase 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 Phenylalanine Ammonia-Lyase 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 Phenylalanine Ammonia-Lyase.

Chapter 14 and 15, to describe Phenylalanine Ammonia-Lyase sales channel, distributors, customers, research findings and conclusion.

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