

# Global 5-Aminopentanoic Acid Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G68AFC0C4E52EN.html>

Date: August 2026

Pages: 78

Price: US\$ 3,480.00 (Single User License)

ID: G68AFC0C4E52EN

## Abstracts

According to our (Global Info Research) latest study, the global 5-Aminopentanoic Acid market size was valued at US\$ 20.76 million in 2025 and is forecast to a readjusted size of US\$ 31.97 million by 2032 with a CAGR of 6.4% during review period.

5-Aminopentanoic Acid is a non-protein amino acid with the molecular formula  $C_5H_9NO_2$ . It contains one primary amino group and one carboxyl group separated by a five-carbon linear chain. It serves as an important intermediate in organic synthesis, pharmaceutical chemistry, and bio-based chemical production. In recent years, 5-Aminopentanoic Acid has attracted increasing attention as a renewable platform chemical because it can be produced through microbial fermentation of L-lysine and further converted into high-performance polyamides, specialty chemicals, and other value-added derivatives.

In 2025, global sales of 5-Aminopentanoic Acid reached approximately 167 tons, with an average global market price of around US\$ 121/kg. As a niche chemical, its global production capacity is low, and its gross profit margin is approximately 20%-40%.

5-Aminopentanoic Acid is considered a niche but high-value specialty chemical with promising long-term development prospects in industrial biotechnology and sustainable chemistry. Although the current commercial market remains relatively limited, increasing interest in renewable chemicals and bio-based materials has significantly enhanced its strategic importance. As a key platform molecule derived from L-lysine through microbial fermentation, 5-Aminopentanoic Acid serves as an important intermediate for the production of bio-based polyamides, advanced polymers, specialty chemicals, and other value-added derivatives. Continuous advances in metabolic engineering, microbial

fermentation, and biocatalytic technologies are further improving production efficiency while supporting greener and more sustainable manufacturing processes.

At present, demand is primarily driven by pharmaceutical intermediates, specialty chemicals, and research applications, while large-scale industrial utilization is gradually expanding. Future market development is expected to benefit from the growing adoption of bio-based polymers, increasing demand for sustainable engineering materials, and global efforts to reduce dependence on fossil-based chemicals. Additional growth opportunities are supported by environmental regulations and corporate sustainability initiatives promoting renewable feedstocks. Nevertheless, commercialization still faces challenges related to production cost, fermentation productivity, scale-up capability, and downstream market development. Continued technological innovation and industrial investment are expected to strengthen the competitiveness of 5-Aminopentanoic Acid and accelerate its adoption across a broader range of high-performance material applications.

This report is a detailed and comprehensive analysis for global 5-Aminopentanoic Acid 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 5-Aminopentanoic Acid market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global 5-Aminopentanoic Acid market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global 5-Aminopentanoic Acid 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 5-Aminopentanoic Acid 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 5-Aminopentanoic Acid

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 5-Aminopentanoic Acid 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 Shanghai Ruifu Chemical, Liaoyang Hengye Chemical, Chengdu Taiheweiye, Kilo Biotech, etc.

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

## Market Segmentation

5-Aminopentanoic Acid 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

Industrial Grade

Pharmaceutical Grade

### Market segment by Purity

Purity ≥99%

Purity

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global 5-Aminopentanoic Acid Consumption Value by Type: 2021  
Versus 2025 Versus 2032

1.3.2 Industrial Grade

1.3.3 Pharmaceutical Grade

1.4 Market Analysis by Purity

1.4.1 Overview: Global 5-Aminopentanoic Acid Consumption Value by Purity: 2021  
Versus 2025 Versus 2032

1.4.2 Purity ?99%

1.4.3 Purity

## List Of Tables

### LIST OF TABLES

Table 1. Global 5-Aminopentanoic Acid Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global 5-Aminopentanoic Acid Consumption Value by Purity, (USD Million), 2021 & 2025 & 2032

Table 3. Global 5-Aminopentanoic Acid Consumption Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Table 4. Global 5-Aminopentanoic Acid Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Shanghai Ruifu Chemical Basic Information, Manufacturing Base and Competitors

Table 6. Shanghai Ruifu Chemical Major Business

Table 7. Shanghai Ruifu Chemical 5-Aminopentanoic Acid Product and Services

Table 8. Shanghai Ruifu Chemical 5-Aminopentanoic Acid Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Shanghai Ruifu Chemical Recent Developments/Updates

Table 10. Liaoyang Hengye Chemical Basic Information, Manufacturing Base and Competitors

Table 11. Liaoyang Hengye Chemical Major Business

Table 12. Liaoyang Hengye Chemical 5-Aminopentanoic Acid Product and Services

Table 13. Liaoyang Hengye Chemical 5-Aminopentanoic Acid Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Liaoyang Hengye Chemical Recent Developments/Updates

Table 15. Chengdu Taiheweiye Basic Information, Manufacturing Base and Competitors

Table 16. Chengdu Taiheweiye Major Business

Table 17. Chengdu Taiheweiye 5-Aminopentanoic Acid Product and Services

Table 18. Chengdu Taiheweiye 5-Aminopentanoic Acid Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Chengdu Taiheweiye Recent Developments/Updates

Table 20. Kilo Biotech Basic Information, Manufacturing Base and Competitors

Table 21. Kilo Biotech Major Business

Table 22. Kilo Biotech 5-Aminopentanoic Acid Product and Services

Table 23. Kilo Biotech 5-Aminopentanoic Acid Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

|                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------|
| Table 24. Kilo Biotech Recent Developments/Updates                                                                          |
| Table 25. Global 5-Aminopentanoic Acid Sales Quantity by Manufacturer (2021-2026) & (Tons)                                  |
| Table 26. Global 5-Aminopentanoic Acid Revenue by Manufacturer (2021-2026) & (USD Million)                                  |
| Table 27. Global 5-Aminopentanoic Acid Average Price by Manufacturer (2021-2026) & (US\$/kg)                                |
| Table 28. Market Position of Manufacturers in 5-Aminopentanoic Acid, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025 |
| Table 29. Head Office and 5-Aminopentanoic Acid Production Site of Key Manufacturer                                         |
| Table 30. 5-Aminopentanoic Acid Market: Company Product Type Footprint                                                      |
| Table 31. 5-Aminopentanoic Acid Market: Company Product Application Footprint                                               |
| Table 32. 5-Aminopentanoic Acid New Market Entrants and Barriers to Market Entry                                            |
| Table 33. 5-Aminopentanoic Acid Mergers, Acquisition, Agreements, and Collaborations                                        |
| Table 34. Global 5-Aminopentanoic Acid Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR                  |
| Table 35. Global 5-Aminopentanoic Acid Sales Quantity by Region (2021-2026) & (Tons)                                        |
| Table 36. Global 5-Aminopentanoic Acid Sales Quantity by Region (2027-2032) & (Tons)                                        |
| Table 37. Global 5-Aminopentanoic Acid Consumption Value by Region (2021-2026) & (USD Million)                              |
| Table 38. Global 5-Aminopentanoic Acid Consumption Value by Region (2027-2032) & (USD Million)                              |
| Table 39. Global 5-Aminopentanoic Acid Average Price by Region (2021-2026) & (US\$/kg)                                      |
| Table 40. Global 5-Aminopentanoic Acid Average Price by Region (2027-2032) & (US\$/kg)                                      |
| Table 41. Global 5-Aminopentanoic Acid Sales Quantity by Type (2021-2026) & (Tons)                                          |
| Table 42. Global 5-Aminopentanoic Acid Sales Quantity by Type (2027-2032) & (Tons)                                          |
| Table 43. Global 5-Aminopentanoic Acid Consumption Value by Type (2021-2026) & (USD Million)                                |
| Table 44. Global 5-Aminopentanoic Acid Consumption Value by Type (2027-2032) & (USD Million)                                |
| Table 45. Global 5-Aminopentanoic Acid Average Price by Type (2021-2026) & (US\$/kg)                                        |
| Table 46. Global 5-Aminopentanoic Acid Average Price by Type (2027-2032) & (US\$/kg)                                        |
| Table 47. Global 5-Aminopentanoic Acid Sales Quantity by Application (2021-2026) &                                          |

(Tons)

Table 48. Global 5-Aminopentanoic Acid Sales Quantity by Application (2027-2032) & (Tons)

Table 49. Global 5-Aminopentanoic Acid Consumption Value by Application (2021-2026) & (USD Million)

Table 50. Global 5-Aminopentanoic Acid Consumption Value by Application (2027-2032) & (USD Million)

Table 51. Global 5-Aminopentanoic Acid Average Price by Application (2021-2026) & (US\$/kg)

Table 52. Global 5-Aminopentanoic Acid Average Price by Application (2027-2032) & (US\$/kg)

Table 53. North America 5-Aminopentanoic Acid Sales Quantity by Type (2021-2026) & (Tons)

Table 54. North America 5-Aminopentanoic Acid Sales Quantity by Type (2027-2032) & (Tons)

Table 55. North America 5-Aminopentanoic Acid Sales Quantity by Application (2021-2026) & (Tons)

Table 56. North America 5-Aminopentanoic Acid Sales Quantity by Application (2027-2032) & (Tons)

Table 57. North America 5-Aminopentanoic Acid Sales Quantity by Country (2021-2026) & (Tons)

Table 58. North America 5-Aminopentanoic Acid Sales Quantity by Country (2027-2032) & (Tons)

Table 59. North America 5-Aminopentanoic Acid Consumption Value by Country (2021-2026) & (USD Million)

Table 60. North America 5-Aminopentanoic Acid Consumption Value by Country (2027-2032) & (USD Million)

Table 61. Europe 5-Aminopentanoic Acid Sales Quantity by Type (2021-2026) & (Tons)

Table 62. Europe 5-Aminopentanoic Acid Sales Quantity by Type (2027-2032) & (Tons)

Table 63. Europe 5-Aminopentanoic Acid Sales Quantity by Application (2021-2026) & (Tons)

Table 64. Europe 5-Aminopentanoic Acid Sales Quantity by Application (2027-2032) & (Tons)

Table 65. Europe 5-Aminopentanoic Acid Sales Quantity by Country (2021-2026) & (Tons)

Table 66. Europe 5-Aminopentanoic Acid Sales Quantity by Country (2027-2032) & (Tons)

Table 67. Europe 5-Aminopentanoic Acid Consumption Value by Country (2021-2026) & (USD Million)

Table 68. Europe 5-Aminopentanoic Acid Consumption Value by Country (2027-2032) & (USD Million)

Table 69. Asia-Pacific 5-Aminopentanoic Acid Sales Quantity by Type (2021-2026) & (Tons)

Table 70. Asia-Pacific 5-Aminopentanoic Acid Sales Quantity by Type (2027-2032) & (Tons)

Table 71. Asia-Pacific 5-Aminopentanoic Acid Sales Quantity by Application (2021-2026) & (Tons)

Table 72. Asia-Pacific 5-Aminopentanoic Acid Sales Quantity by Application (2027-2032) & (Tons)

Table 73. Asia-Pacific 5-Aminopentanoic Acid Sales Quantity by Region (2021-2026) & (Tons)

Table 74. Asia-Pacific 5-Aminopentanoic Acid Sales Quantity by Region (2027-2032) & (Tons)

Table 75. Asia-Pacific 5-Aminopentanoic Acid Consumption Value by Region (2021-2026) & (USD Million)

Table 76. Asia-Pacific 5-Aminopentanoic Acid Consumption Value by Region (2027-2032) & (USD Million)

Table 77. South America 5-Aminopentanoic Acid Sales Quantity by Type (2021-2026) & (Tons)

Table 78. South America 5-Aminopentanoic Acid Sales Quantity by Type (2027-2032) & (Tons)

Table 79. South America 5-Aminopentanoic Acid Sales Quantity by Application (2021-2026) & (Tons)

Table 80. South America 5-Aminopentanoic Acid Sales Quantity by Application (2027-2032) & (Tons)

Table 81. South America 5-Aminopentanoic Acid Sales Quantity by Country (2021-2026) & (Tons)

Table 82. South America 5-Aminopentanoic Acid Sales Quantity by Country (2027-2032) & (Tons)

Table 83. South America 5-Aminopentanoic Acid Consumption Value by Country (2021-2026) & (USD Million)

Table 84. South America 5-Aminopentanoic Acid Consumption Value by Country (2027-2032) & (USD Million)

Table 85. Middle East & Africa 5-Aminopentanoic Acid Sales Quantity by Type (2021-2026) & (Tons)

Table 86. Middle East & Africa 5-Aminopentanoic Acid Sales Quantity by Type (2027-2032) & (Tons)

Table 87. Middle East & Africa 5-Aminopentanoic Acid Sales Quantity by Application

(2021-2026) & (Tons)

Table 88. Middle East & Africa 5-Aminopentanoic Acid Sales Quantity by Application

(2027-2032) & (Tons)

Table 89. Middle East & Africa 5-Aminopentanoic Acid Sales Quantity by Country

(2021-2026) & (Tons)

Table 90. Middle East & Africa 5-Aminopentanoic Acid Sales Quantity by Country

(2027-2032) & (Tons)

Table 91. Middle East & Africa 5-Aminopentanoic Acid Consumption Value by Country

(2021-2026) & (USD Million)

Table 92. Middle East & Africa 5-Aminopentanoic Acid Consumption Value by Country

(2027-2032) & (USD Million)

Table 93. 5-Aminopentanoic Acid Raw Material

Table 94. Key Manufacturers of 5-Aminopentanoic Acid Raw Materials

Table 95. 5-Aminopentanoic Acid Typical Distributors

Table 96. 5-Aminopentanoic Acid Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. 5-Aminopentanoic Acid Picture

Figure 2. Global 5-Aminopentanoic Acid Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global 5-Aminopentanoic Acid Revenue Market Share by Type in 2025

Figure 4. Industrial Grade Examples

Figure 5. Pharmaceutical Grade Examples

Figure 6. Global 5-Aminopentanoic Acid Revenue by Purity, (USD Million), 2021 & 2025 & 2032

Figure 7. Global 5-Aminopentanoic Acid Revenue Market Share by Purity in 2025

Figure 8. Purity ≥99% Examples

Figure 9. Purity

## I would like to order

Product name: Global 5-Aminopentanoic Acid Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: <https://marketpublishers.com/r/G68AFC0C4E52EN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G68AFC0C4E52EN.html>