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Global D-Amino Acid Market Growth 2026-2032

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Abstracts

The global D-Amino Acid market size is predicted to grow from US$ 2583 million in 2025 to US$ 4355 million in 2032; it is expected to grow at a CAGR of 7.8% from 2026 to 2032.

In 2025, global D-Amino Acid output reached about 120,000 tons and global capacity of around 140,000 tons. The average price is about USD 22,000 per ton, with gross margins near 35%. D-Amino Acid refers to amino acids that possess the D-configuration (the mirror-image stereoisomer of the naturally predominant L-amino acids). While L-amino acids are the primary building blocks of proteins in higher organisms, D-amino acids occur naturally in bacterial cell walls, certain peptides, and biological signaling molecules, and are also produced synthetically or enzymatically for pharmaceutical, food, agrochemical, and biochemical applications. Commercial production typically begins with petrochemical- or bio-based raw materials (such as aldehydes, ketones, organic acids, or fermentation-derived intermediates), followed by chemical asymmetric synthesis, enzymatic resolution, biocatalytic conversion using amino acid racemases or dehydrogenases, or microbial fermentation to obtain high optical purity D-amino acids. After purification, crystallization, and quality control, the products are supplied to pharmaceutical manufacturers, peptide and API producers, food and feed additive companies, biotechnology firms, research laboratories, and specialty chemical manufacturers. The global supply chain consists of raw material suppliers, chiral intermediate producers, D-amino acid manufacturers, distributors, and downstream users in pharmaceuticals, peptide synthesis, nutraceuticals, diagnostics, and advanced biochemical research.

United States market for D-Amino Acid is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for D-Amino Acid is estimated to increase from US$ million in 2025 to

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US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for D-Amino Acid is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key D-Amino Acid players cover Evonik, Bachem, Iris Biotech, Amino, Daesang, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “D-Amino Acid Industry Forecast” looks at past sales and reviews total world D-Amino Acid sales in 2025, providing a comprehensive analysis by region and market sector of projected D-Amino Acid sales for 2026 through 2032. With D-Amino Acid sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world D-Amino Acid industry.

This Insight Report provides a comprehensive analysis of the global D-Amino Acid landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on D-Amino Acid portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global D-Amino Acid market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for D-Amino Acid and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global D-Amino Acid.

This report presents a comprehensive overview, market shares, and growth opportunities of D-Amino Acid market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

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Neutral D-Amino Acid

Acidic D-Amino Acid

Others

Segmentation by Optical Purity:

Standard Grade (95–98%)

High-Purity Grade (98–99.5%)

Ultra-High-Purity Grade (>99.5%)

Segmentation by Application:

Pharmaceutical

Biotechnology

Specialty Chemical

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

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- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa
  - Egypt
  - South Africa
  - Israel
  - Turkey
  - GCC Countries

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The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Evonik

Bachem

Iris Biotech

Amino

Daesang

Kyowa Hakko Bio

Sichuan Tongsheng

Hubei Bafeng

Chengdu Yazhong

GL Biochem

Key Questions Addressed in this Report

What is the 10-year outlook for the global D-Amino Acid market?

What factors are driving D-Amino Acid market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do D-Amino Acid market opportunities vary by end market size?

How does D-Amino Acid break out by Type, by Application?

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