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Methionine - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-09-01 | 120 pages | Mordor Intelligence

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Report description:

Methionine Market Analysis

The Methionine Market size is estimated at 1.94 million tons in 2025, and is expected to reach 2.64 million tons by 2030, at a CAGR of 6.41% during the forecast period (2025-2030). Demand is tracking the shift in global protein consumption toward poultry, aquaculture, and precision-fed dairy herds, while supply is being reshaped by the rapid scale-up of bio-fermentation capacity in Asia-Pacific. Investment is flowing into the region's integrated feed-to-amino-acid clusters as producers position plants close to the world's fastest-growing livestock inventories. On the technology front, engineered microbial pathways are narrowing the cost gap with petrochemical synthesis and offering a meaningful decarbonization lever for multinational feed and nutrition firms. Meanwhile, price volatility in methanol, hydrogen cyanide, and sulfur compounds is pushing manufacturers to diversify feedstocks and secure long-term offtake agreements.

Global Methionine Market Trends and Insights

Surge in Demand for Methionine-Enriched Poultry Feed

Broiler producers are reformulating diets to fine-tune amino acid profiles and offset lower crude-protein levels. Supplementing methionine lifts feed conversion ratios by 7.3% and live weights by 13.8%, with added benefits in immune competence. Government-led initiatives to reduce soybean meal inclusion in China further amplify methionine inclusion rates, anchoring regional consumption growth.

Rapid Expansion of Intensive Aquaculture

As fish-meal usage declines, plant-based and single-cell proteins dominate new feed blends yet lack inherent methionine. Supplementation maintains growth and feed efficiency across carp, tilapia, and shrimp species, particularly in Asia-Pacific's vertically integrated aquaculture hubs. This creates a durable pull for specialized methionine formulations adjusted to aquatic digestive systems.

Volatility in Raw Materials Prices

Fluctuating methanol and hydrogen cyanide prices add margin pressure and discourage short-cycle capacity additions. Trade probes and potential tariffs on amino acid imports inject further uncertainty, prompting inventory adjustments that can temporarily distort supply-demand balances.

Other drivers and restraints analyzed in the detailed report include:

Adoption of Rumen-Protected Methionine / Commercialization of Low-Cost Bio-Fermentation Routes / Complex Process of Manufacturing Methionine /

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

Powder products anchored 58.19% of 2024 demand, yet liquid variants post an 8.19% CAGR on the back of dust-free handling and easier integration into automated dosing lines. Liquid DL-methionine sodium salt delivers biological parity with powders, removing performance hurdles in high-throughput feed mills. As North American and European feed plants retrofit for liquid micro-additives, suppliers are rolling out stabilized formulations that cut mixing steps and reduce occupational exposure. The methionine market benefits from these process efficiencies, widening adoption in Asia-Pacific as regional millers upgrade equipment.

Feed grade dominates volume with a 89.14% market share, yet pharmaceutical-grade methionine is the fastest-growing slice at 8.55% CAGR. Clinical nutrition protocols require GMP-certified material for parenteral solutions and therapeutic protein synthesis. Methionine's role in nitrogen retention for at-risk patients and in lowering homocysteine for cardiovascular care is elevating hospital demand. Food-and-beverage grade sits between feed and pharma, serving high-protein beverages where methionine maintains protein stability at elevated concentrations. The methionine industry, therefore, spans a broad purity spectrum, enabling producers to segment offerings and value-based pricing strategies.

The Methionine Market Report Segments the Industry by Type (Powder and Liquid), Grade (Feed Grade, Food and Beverage Grade, and Pharmaceutical Grade), Production Technology (Petrochemical-Based Synthesis and Bio-Based Fermentation), End-User Industry (Food and Beverage, Pharmaceuticals, Animal Feed, and Other End-User Industries), and Geography (Asia-Pacific, North America, Europe, South America, and Middle-East and Africa).

Geography Analysis

Asia-Pacific holds a 45.19% share and logs the fastest 7.46% CAGR, propelled by China's expanding broiler output and modest feed demand uptick to 285.5 million tons in MY 2024/25. Southeast Asian aquaculture clusters add another consumption layer, further anchoring methionine market growth.

North America leverages precision dairy and poultry systems, making it an early adopter of rumen-protected formats. The region favors value-added formulations that capture higher gross margins and stabilize supplier cash flows. Europe's stringent environmental targets push producers to fine-tune amino acid ratios to curb nitrogen emissions, sustaining demand even as overall livestock numbers plateau.

South America, led by Brazil, benefits from rising poultry and shrimp exports that hinge on amino acid-balanced feeds. The Middle-East and Africa register smaller volumes but represent frontier growth as feed milling capacity catches up with rising protein appetites.

List of Companies Covered in this Report:

Adisseo / Ajinomoto Co., Inc. / Chongqing Unisplendour Chemical Co., Ltd. / CJ CHEILJEDANG CORP / Evonik Industries AG / Guangxi Nanning Junwei Feed Co.,Ltd. / Meihua Holdings Group Co., Ltd. / Novus International, Inc. / Sichuan Hebang Biotechnology Co., Ltd. / Sumitomo Chemical Co., Ltd. / Volzhsky Orgsynthese, JSC / Zhejiang NHU Co., Ltd. /

Additional Benefits:

The market estimate (ME) sheet in Excel format /
3 months of analyst support /

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