

Glycine Market Report and Forecast 2025-2034

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Report description:

The global glycine market is projected to grow at a CAGR of 5.00% between 2025 and 2034, reaching a value of around USD 1135.89 Million by 2034. The market growth can be attributed to the increasing demand for glycine in animal feeds.

Glycine is a proteinogenic amino acid with a hydrogen atom as its side chain. It appears as white crystals and acts as a nutraceutical, a micronutrient, a fundamental metabolite, and a neurotransmitter. It is also the most important and non-essential amino acid in humans, animals, and many mammals.

The strong foothold of market players offering glycine and the expansion of glycine production capacity to meet the demand from end-users are likely to augment the glycine industry over the forecast period. Increasing research activities conducted to use glycine as a supplement in patients with severe COVID-19 and high levels of proinflammatory cytokines owing to its cytoprotective effect are also supporting the development of the market.

Key Trends and Developments

The increasing demand for glycine in animal feed and as a flavour masking agent; its increasing use in the cosmetics industry; and the increasing demand for pharmaceutical-grade glycine are the major trends impacting the market growth.

Global Glycine Market Trends

Barrick Gold, in collaboration with Draslovka, is pioneering the GlyCat process, a groundbreaking advancement in the mining industry aimed at enhancing the extraction of gold, cobalt, copper, and other valuable minerals. This innovative technology utilises glycine, a non-toxic, environmentally friendly reagent, as a catalyst in the leaching process. GlyCat technology not only promises to improve the efficiency and yield of mineral recovery but also significantly reduces the environmental impact associated with traditional extraction methods, marking a substantial step forward in sustainable mining practices.

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The use of glycine in animal feed is significantly contributing to the growth of the global glycine market. Glycine plays a crucial role in enhancing the nutritional value of animal feed while promoting optimal growth and health in livestock and poultry. It aids in the synthesis of proteins, supports the immune system, and improves feed efficiency. As the demand for high-quality animal protein increases globally, the incorporation of glycine in feed formulations is driving the global glycine market growth.

Global Glycine Market Segmentation

"Global Glycine Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Grade

- Food Grade
- Pharmaceutical Grade
- Technical Grade

Market Breakup by Application

- Cosmetic and Personal Care
- Pharmaceutical
- Agrochemical
- Food and Beverage
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

The pharmaceutical sector is expected to constitute a major portion of the global glycine market share.

The use of USP-grade glycine by pharmaceutical manufacturers for the gastric absorption of drugs like aspirin and to treat diarrhoea in humans and animals is expected to increase substantially over the forecast period. Glycine is also effective in treating metabolic disorders in patients with cardiovascular diseases, several inflammatory diseases, obesity, cancers, and diabetes, thereby propelling the global glycine market development.

In addition, glycine possesses the property to enhance the quality of sleep and neurological functions. The increasing incidences of organ transplantation have led to an increase in the number of patients seeking glycine therapy to prevent organ transplantation failure and improve graft function and health, propelling the market expansion.

Global Glycine Market Regional Analysis

The global glycine market exhibits substantial regional diversity, with the Asia Pacific leading in terms of consumption and production. The region's dominance is attributed to its robust agricultural sector, extensive livestock farming, and rapidly growing pharmaceutical industry, particularly in countries like China and India. These nations have become major hubs for glycine

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manufacturing due to their lower production costs and increasing demand from various end-use industries, including food, pharmaceuticals, and cosmetics.

In North America and Europe, the glycine market growth is being driven by advanced pharmaceutical and biotechnological research and development, alongside stringent environmental regulations promoting the use of environmentally friendly and sustainable chemicals. The United States and European countries are focusing on high-purity glycine for pharmaceutical applications and innovative glycine-based products for industrial uses, reflecting their commitment to health, safety, and environmental sustainability. This focus on high-quality and specialised applications propels the demand for glycine in these regions, underlining the global market's regional nuances and growth dynamics.

Competitive Landscape

Major glycine market players are investing in the research to develop innovative technologies for manufacturing products from glycine.

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