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Aspartic Acid Market Assessment, By Form [D-Aspartic acid, L-Aspartic acid, Combined DL Form], By Product Application [Aspartame, Polyaspartic acid, Active API, Others], By End-use Industry [Food, Beverages, Pharmaceuticals, Cosmetics, Agriculture, Others], By Region, Opportunities, and Forecast, 2016-2030F

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Abstracts

Global Aspartic Acid Market was valued at USD 101.23 million in 2022, expected to grow to USD 154.18 million in 2030 with a CAGR of 5.4% during the forecast period between 2023 and 2030. Aspartic acid, a non-essential amino acid has several applications in various industries which drives the demand for the commodity. Firstly, in the food and beverage industry, aspartic acid is a core component of aspartame, an artificial sweetener, which is widely used in low-calorie and sugar-free products, including soft drinks, candies, and desserts, responding to the consumer demand for healthier and reduced-sugar options. Secondly, aspartic acid finds substantial application in the pharmaceutical and nutraceutical sectors due to its role in protein synthesis, and potential health benefits have made it a sought-after ingredient in supplements and pharmaceutical formulations, contributing to cognitive function and energy production.

Additionally, aspartic acid's properties extend to personal care and cosmetics, enhancing the moisturizing and anti-aging capabilities of skincare and haircare products. Moreover, in animal nutrition, aspartic acid is an essential component in animal feed. It fosters growth and well-being in livestock and poultry, elevating animal productivity and health. Furthermore, Aspartic acid-based biostimulants are used in agriculture to enhance plant growth, increase crop yield, and improve stress tolerance in

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plants.

Rising consumption of Sugary Beverages Drives Demand for Aspartic Acid

Aspartic acid, in the form of aspartame (an artificial sweetener), is a key component in the food and beverage industry. It is widely used to provide a sweet taste to various low-calorie and sugar-free products, including soft drinks, desserts, candies, and chewing gums. As individuals seek to reduce their sugar intake, aspartame is a reliable solution, allowing food and beverage manufacturers to create products that are palatable and aligned with health-conscious choices.

For instance, 65% of the adult population in the United States consumes sweetened beverages daily. Heightened sales of products that use aspartame across the globe contributed to rising demand for aspartic acid in the food and beverages sector.

Strong Performance of Healthcare Sector to Heighten Aspartic Acid Demand

Aspartic acid finds a multifaceted role in the pharmaceutical industry, contributing to the development of a diverse range of drugs and supplements. As an essential amino acid, it plays a pivotal role in protein synthesis, a fundamental biological process that forms the basis of many physiological functions. Its involvement in this intricate process positions it as a key ingredient in various pharmaceutical formulations. Further, Aspartic acid is recognized for contributing to energy production and maintaining proper neurological function, making it a valuable addition to nutritional and health-focused products.

For instance, during the first quarter of 2023, Johnson & Johnson disclosed a remarkable performance in the U.S., with their sales surging by nearly 10 percent, achieving a total of USD 12.52 billion. Meanwhile, international sales also saw a significant increase of nearly 2 percent. This surge in pharmaceuticals and personal care product sales is anticipated to boost the demand for aspartic acid.

Strong Demand from the Agriculture Sector to Increase the Requirement for Aspartic Acid

Aspartic acid-based biostimulants have gained prominence in agriculture for their role in fostering robust plant growth, elevating crop yields, and enhancing the resilience of plants against various stressors. These biostimulants represent a sophisticated blend of aspartic acid and a complementary array of amino acids, resulting in improved nutrient

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absorption, heightened metabolic activity, and overall strengthened plant vitality.

For instance, according to the United States Department of Agriculture, there is a projected increase in food insecurity for 2022, with approximately 1.3 billion people, marking a 10% escalation from the previous year. Addressing this critical issue necessitates a paramount focus on enhancing crop productivity. The surge in global demand for aspartic acid is attributed to their role in elevating crop productivity and fostering sustainability, which is crucial in the context of this growing food insecurity challenge.

Impact of COVID-19

The global supply chains linked to the manufacturing and distribution of aspartic acid were significantly hampered by the far-reaching impacts of the COVID-19 pandemic due to a combination of factors, including the temporary closure of manufacturing facilities and stringent transportation restrictions, leading to substantial delays and supply shortages of amino acid and its derivatives. The closing of restaurants and weakened buying power during the pandemic caused a decline in the demand for aspartic acid. However, the strong demand from the pharmaceutical sector and the increased consumer interest in nutrition contributed to a rise in demand for aspartic acid as an API and nutrient supplement.

Key Outlook

> The growing emphasis on manufacturing low-calorie foods, diet carbonated beverages, and sugar alternatives has led to an upsurge in the utilization of high-intensity sweeteners, consequently propelling the aspartic acid market.
>
> Aspartic acid plays a vital role in the process of protein synthesis, making it a common inclusion in supplements due to its potential health advantages, which encompass enhancing cognitive function and promoting energy production, which is likely to lead to strong demand rise.

Key Players Landscape and Outlook

Prominent manufacturers in the aspartic acid industry are proactively engaged in the development of novel products, primarily designed to serve as nutrient supplements. This strategic move aligns with the surging global demand for nutritional supplements

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and the industry's responsiveness to evolving consumer preferences for supplements. It reflects a commitment to meet the growing market demand for health-focused products, further underscoring the importance of aspartic acid in contemporary nutritional solutions.

For instance, in July 2021, Ajinomoto Co., Inc. introduced Mankai, an innovative vegetable beverage. This drink is enriched with a blend of essential vitamins and minerals, with a notable inclusion of aspartic acid, which plays a crucial role in supporting the immune system.

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