

Global Gas Fermentation Protein Market Growth 2026-2032

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Abstracts

The global Gas Fermentation Protein market size is predicted to grow from US\$ 10.69 million in 2025 to US\$ 22.36 million in 2032; it is expected to grow at a CAGR of 7.6% from 2026 to 2032.

Gas Fermentation Protein refers to protein ingredients produced by microorganisms using gases such as hydrogen, carbon dioxide, carbon monoxide, or methane as carbon or energy sources through fermentation. The technology can convert industrial off-gases, syngas, biogas, or carbon sources from air into microbial protein, with applications in food ingredients, animal feed, aquafeed, and alternative protein products. Compared with conventional plant-based or animal-derived proteins, gas fermentation protein offers advantages such as lower land use, shorter production cycles, and stronger sustainability potential. In 2025, global Gas Fermentation Protein production reached approximately 1366 tons, with an average global market price of around US\$8200 per ton. The production capacity for Gas Fermentation Protein in 2025 was approximately 2000 tons. The typical gross profit margin for Gas Fermentation Protein is between 20% and 40%.

The gas fermentation protein market refers to the production of proteins, amino acids and related nutritional ingredients through microbial fermentation using gases such as carbon monoxide, carbon dioxide, methane and hydrogen as carbon or energy sources. The market is driven by the growing demand for sustainable food, alternative proteins, carbon reduction and circular resource utilization, with applications in meat alternatives, animal feed, aquafeed, pet food and functional nutrition. Compared with conventional plant-based and animal-derived proteins, gas fermentation protein offers advantages such as lower land dependence, reduced water consumption, shorter production cycles and the potential use of industrial off-gases or renewable gases. However, the market

still faces challenges related to scale-up costs, food regulatory approval, consumer acceptance and process stability in large-scale fermentation. Overall, with advances in synthetic biology, low-carbon food systems and increasing participation from food and feed companies, the gas fermentation protein market is expected to move gradually from pilot-scale demonstration toward broader commercialization.

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

This Insight Report provides a comprehensive analysis of the global Gas Fermentation Protein 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 Gas Fermentation Protein portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Gas Fermentation Protein market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Gas Fermentation Protein 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 Gas Fermentation Protein.

This report presents a comprehensive overview, market shares, and growth opportunities of Gas Fermentation Protein market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

CO₂-based Air Protein

Methane-based Gas Protein

Other

Segmentation Production Technology:

Gas Fermentation Protein

Hydrogen-oxidizing Bacteria Fermentation Protein

Methanotroph Fermentation Protein

Segmentation by Application:

Food and Nutritional Supplements

Animal Feed

Functional Biological Products

Industrial Bio-based Materials

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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.

Air Protein

Solar Foods

NovoNutrients

Aerbio

Farmless

Kiverdi

Calysta

Unibio

String Bio

Key Questions Addressed in this Report

What is the 10-year outlook for the global Gas Fermentation Protein market?

What factors are driving Gas Fermentation Protein market growth, globally and by region?

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

How do Gas Fermentation Protein market opportunities vary by end market size?

How does Gas Fermentation Protein break out by Type, by Application?

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