

Global Gas Fermentation Protein Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Gas Fermentation Protein market size was valued at US\$ 11.25 million in 2025 and is forecast to a readjusted size of US\$ 22.94 million by 2032 with a CAGR of 7.2% during review period.

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.

This report is a detailed and comprehensive analysis for global Gas Fermentation Protein market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Gas Fermentation Protein market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Gas Fermentation Protein market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Gas Fermentation Protein market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Gas Fermentation Protein market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Gas Fermentation Protein

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Gas Fermentation Protein market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Air Protein, Solar Foods, NovoNutrients, Aerbio, Farmless, Kiverdi, Calysta, Unibio, String Bio, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Gas Fermentation Protein market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

CO₂-based Air Protein

Methane-based Gas Protein

Other

Market segment Production Technology

Gas Fermentation Protein

Hydrogen-oxidizing Bacteria Fermentation Protein

Methanotroph Fermentation Protein

Market segment by Application

Food and Nutritional Supplements

Animal Feed

Functional Biological Products

Industrial Bio-based Materials

Others

Major players covered

Air Protein

Solar Foods

NovoNutrients

Aerbio

Farmless

Kiverdi

Calysta

Unibio

String Bio

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Gas Fermentation Protein product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Gas Fermentation Protein, with price, sales quantity, revenue, and global market share of Gas Fermentation Protein from 2021 to 2026.

Chapter 3, the Gas Fermentation Protein competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Gas Fermentation Protein breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Gas Fermentation Protein market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Gas

Fermentation Protein.

Chapter 14 and 15, to describe Gas Fermentation Protein sales channel, distributors, customers, research findings and conclusion.

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