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Global Monoglycerol Stearate 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 Monoglycerol Stearate market size was valued at US$ 1502 million in 2025 and is forecast to a readjusted size of US$ 2072 million by 2032 with a CAGR of 4.7% during review period.

In 2025, the global production of glycerol monostearate is projected to reach 265,500 tons, with an average selling price of US$5,500 per ton.

To address core challenges in the food, daily chemical, and pharmaceutical industries, such as the difficulty of uniformly mixing oils and water, poor product stability, short shelf life, and unsatisfactory taste, glycerol monostearate (GMS) was developed. This product is a non-ionic surfactant produced by the esterification reaction of stearic acid and glycerol. Its core principle lies in its molecular structure, which contains both hydrophilic groups (hydroxyl groups) and lipophilic groups (stearic acid chains). This allows it to form a stable emulsifying film at the oil-water interface, achieving uniform dispersion and stability in oil-water systems. It also possesses multiple functions, including thickening, anti-aging, preservation, and lubrication. Experimental data shows that in the food baking industry, adding an appropriate amount of glycerol monostearate can increase bread volume by more than 30% and extend its shelf life by 2-3 days; in the daily chemical industry, it can significantly improve emulsion stability and prevent stratification and turbidity. Since its industrial production began in the early 20th century, glycerol monostearate, with its high safety, comprehensive functionality, and outstanding cost-effectiveness, has evolved from a single emulsifier into one of the most widely used multifunctional food additives and daily chemical raw materials globally, widely applied in various mainstream fields such as food, daily chemicals, pharmaceuticals, and plastics processing.

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In 2025, the global market prices for monoglyceride stearate will vary significantly depending on purity, manufacturing process, and application scenarios: Standard monoglyceride stearate (purity ?90%) is suitable for conventional food and low-end daily chemical products, with a unit price of approximately US$2300-3500 per ton; high-purity monoglyceride stearate (purity ?99%, i.e., GMS99) is suitable for high-end food, pharmaceuticals, and high-end daily chemical products, with a unit price reaching US$4500-6800 per ton. In terms of production capacity, the industry exhibits characteristics of 'regional concentration and leading companies' dominance.' The main global production capacity is concentrated in China, the United States, Europe, and Southeast Asia, with China accounting for 48% of the total global capacity. The annual production capacity of a single production line is approximately 7000-8000 tons, the average industry capacity utilization rate is about 89%, and the average product gross profit margin can reach 18.7%, with high-purity products having a gross profit margin of 22%-27%.

Typical Transaction Case:

In the third quarter of 2025, a large comprehensive food group purchased monoglyceride stearate products from Guangdong Jiadele Technology Co., Ltd. The product model was GMS99-food grade, with a total purchase volume of 800 tons and a contract value of approximately US$4.64 million. The technical requirements included: 'Product purity ?99.8%, acid value ?1.2 mg KOH/g, iodine value ?2.0 g I2/100g, melting point 55-60?; suitable for bread and frozen dumpling production, requiring gas retention and dough strengthening effects in bread, and improved dough extensibility and prevention of cracking in frozen dumplings; the product must pass international safety certifications such as FDA, FSSC, HALAL, and KOSHER, and comply with China's GB 1886.65-2016 'National Food Safety Standard - Food Additives - Mono- and Diglycerides of Fatty Acids' and EU EC 1333/2008 standards; no solvent residue, heavy metal content meets the highest food-grade standards, and batch purity fluctuation ?0.1%.' Industry Pain Points

The fundamental pain point of the monoglyceride stearate industry lies in the multiple contradictions arising from its product attributes as a multi-functional additive, and the stringent safety standards, quality upgrade demands, global environmental regulations, and regional competitive landscape of the downstream food, daily chemical, and pharmaceutical industries. The core pain points are specifically manifested as follows:

On the product side, the core technological barriers are concentrated in the high-purity

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and modified product fields. Key technologies such as the four-stage molecular distillation purification process for high-purity monoglyceride stearate, enzymatic synthesis technology, crystal form control technology, and customized functional formulations for modified products have long been dominated by a few overseas companies. Most domestic companies still rely on traditional chemical esterification processes, resulting in gaps in the purity stability and batch consistency of high-purity products (for example, the purity fluctuation of GMS99 products produced by domestic small and medium-sized manufacturers is generally 0.3%-0.5%, which is 2-4 times higher than similar products from companies like Cargill and Danisco); at the same time, some small and medium-sized manufacturers suffer from serious product homogenization, mainly focusing on ordinary products, lacking functional innovation, and frequently experiencing problems such as substandard product purity and excessive solvent residue, which lowers the overall industry reputation and limits the penetration of domestic products in high-end downstream fields. Furthermore, the industry has long faced common pain points such as 'difficulty in achieving purity above 99.2%, high energy consumption of traditional processes, and gaps in safety control,' further restricting industrial upgrading. On the market and regulatory fronts, global food and personal care product safety standards are continuously being upgraded. Standards such as China's GB 2760 (National Food Safety Standard for the Use of Food Additives), the EU's EC 1333/2008, and the US FDA 21 CFR impose increasingly stringent requirements on the purity, solvent residue, heavy metal content, and microbiological indicators of monoglyceride stearate. Domestic small and medium-sized enterprises (SMEs), lacking core technology and financial support, find it difficult to meet the compliance requirements of high-end downstream customers. Compliance upgrades require significant investment and incur high costs. The market exhibits a typical 'two-tiered' structure: the high-end market is dominated by leading companies, while the low-to-medium-end market is plagued by price competition. The domestic market is primarily led by companies in East and South China, where regional SMEs compete by lowering prices to gain market share, further compressing overall industry profit margins. Simultaneously, overseas brands have a first-mover advantage in the high-end market, while domestic companies are at a disadvantage in terms of brand influence and international certification systems. Export products face technical barriers, making it difficult for domestic companies to break through. Industry Chain Structure

The upstream of the monoglyceride stearate industry chain includes core materials (stearic acid mainly sourced from natural oils such as palm oil and coconut oil, with Malaysia, Indonesia, and China being the main suppliers; glycerol is divided into natural and synthetic types, with natural glycerol mostly coming from by-products of oil refining, and China and the United States having sufficient supply; in terms of catalysts, high-end

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products use enzyme preparations dominated by German and Japanese companies, while ordinary products use chemical catalysts), key components/additives (emulsifiers, stabilizers, and antioxidants improve product stability, purification reagents are used for high-purity production, and environmentally friendly treatment reagents are used to handle wastewater and exhaust gas), and technical support (molecular distillation purification, enzymatic synthesis, and crystal form control technologies are jointly developed by universities and enterprises, precision testing technology ensures purity and solvent residue indicators, and intelligent production technology improves efficiency and consistency); downstream applications are concentrated in food (68%, baking accounts for 42% for strengthening and anti-aging, dairy products account for 28% for improving taste, frozen foods account for 18% for preventing freezing cracks, and others account for 12% for beverages and candies), daily chemicals (22%, skincare products account for 52% for emulsification and moisturizing, detergents account for 35% for enhancing detergency, and others account for 13% for personal care and cosmetics), and pharmaceuticals (10%, used for emulsification, solubilization, and excipients in capsules, creams, and injections, maintaining an 8% annual growth rate with pharmaceutical compliance and formulation upgrades). Overall demand is steadily growing with the scale of the food industry, the upgrading of daily chemical quality, and the compliant development of the pharmaceutical industry. Industry Trends and Challenges

The monoglyceride stearate industry is exhibiting four major development trends: high-end development, green development, intelligent development, and domestic substitution. High-end and refined development is driving the market share of high-purity GMS99 and modified products from 25% to 48% by 2032, meeting the needs of niche markets such as plant-based foods and high-end skincare products; green and environmentally friendly development involves replacing traditional processes with enzymatic synthesis and green solvent esterification, while the large-scale application of natural oil raw materials contributes to low-carbon development, giving green-certified companies a market advantage; intelligent and large-scale development relies on the industrial internet to achieve digital and automated production, improving efficiency and stability, and integrated supply chain layouts expand production capacity; accelerated domestic substitution is driven by the maturity of domestic molecular distillation and enzymatic synthesis technologies, increased self-sufficiency in the supply chain, and domestic products approaching international levels in purity and stability, leading to an increase in domestic market penetration from 68% to 85% and enhanced export competitiveness. In terms of market opportunities, the global food additive market will reach US$28 billion in 2025, with monoglyceride stearate accounting for approximately 13.8%, and the domestic market reaching US$9.5 billion, indicating significant room for

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growth. Emerging fields such as plant-based foods and biopharmaceuticals are driving a high-end demand gap of 80,000 tons annually, and policy support is promoting technological transformation and upgrading. Challenges include a 32% dependence on imported high-end core technologies, environmental compliance cost pressures leading to the elimination of small and medium-sized enterprises, homogenized competition in the low-to-medium end compressing profits, overseas brands dominating the high-end market, and increased profitability pressure due to fluctuating raw material prices.

Demand and Business Opportunity Analysis

The demand for monoglyceride stearate is primarily driven by three factors: firstly, the rigid demand for quality upgrades in downstream food, daily chemical, and pharmaceutical industries, where high-end customers have 7-10 times stricter requirements for purity, stability, and safety than conventional customers; high-purity products can reduce baking waste rates by 15%-20% and improve the user experience of high-end daily chemical products by more than 30%; secondly, mandatory environmental and safety policies are driving demand, with tightening global safety standards leading to an 18% annual increase in demand for green and environmentally friendly products, reaching 120,000 tons between 2025 and 2030; thirdly, emerging fields are driving demand, with plant-based foods experiencing a 28% annual increase and high-end skincare products a 22% annual increase, while biodegradable plastics, smart ships, and new energy sources are expanding into new application scenarios. The technological adaptability offers significant advantages: it is compatible with multiple scenarios, meeting 92% of needs, and offers customizable solutions for emulsification and thickening; only 0.1%-0.5% is needed to achieve the desired effect; intelligent production saves 20% on energy and reduces costs by 15%, helping downstream customers reduce procurement costs by 30%-50%; the benefits of domestic substitution are evident, with core breakthroughs by domestic companies increasing the winning bid rate in the high-end market to 42% (an increase of 13 percentage points compared to 2023), achieving a global market share of 28%, and exporting to over 100 countries, while localized raw materials further reduce costs.

This report is a detailed and comprehensive analysis for global Monoglycerol Stearate 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.

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Key Features:

Global Monoglycerol Stearate market size and forecasts, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Monoglycerol Stearate market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Monoglycerol Stearate market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Monoglycerol Stearate market shares of main players, shipments in revenue ($ Million), sales quantity (Kilotons), 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 Monoglycerol Stearate
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 Monoglycerol Stearate 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 Cargill, Yihai Kerry Arawana Holdings, BASF, Evonik Industries, Zhejiang Zanyu Technology, Guangdong Jiadele Technology, Hangzhou Zanyu Oil Technology, Wilmar International, KLK Oleo, IOI Oleochemical, etc.

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

Market Segmentation

Monoglycerol Stearate 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

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analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Purity ? 90%

Purity Between 40-60%

Purity

Market segment by Production Process

Chemical Esterification

Enzymatic Synthesis

Market segment by Form

Powder

Beads

Paste

Liquid

Market segment by Application

Food Sector

Cosmetics Sector

Pharmaceutical Sector

Other

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Major players covered

- Cargill
- Yihai Kerry Arawana Holdings
- BASF
- Evonik Industries
- Zhejiang Zanyu Technology
- Guangdong Jiadele Technology
- Hangzhou Zanyu Oil Technology
- Wilmar International
- KLK Oleo
- IOI Oleochemical
- Oleon
- Stepan Company
- Croda International
- Palsgaard
- Danisco
- SEPPIC

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)

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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 Monoglycerol Stearate product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Monoglycerol Stearate 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 Monoglycerol Stearate 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 Monoglycerol Stearate.

Chapter 14 and 15, to describe Monoglycerol Stearate sales channel, distributors, customers, research findings and conclusion.

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