

Polyglycerol Fatty Acid Ester Market By Type (Monoglycerol Esters, Diglycerol Esters, Triglycerol Esters, Higher Polyglycerol Esters), Functionality, End-use Industry (Food & Beverages, Personal Care & Cosmetics, Pharmaceuticals, Industrial), Source (Vegetable Oil-based, Animal Fat-based, Synthetic-based), Form (Liquid Solutions, Powder/Solid, Formulated Blends), Polyglycerol Degree, and Region - Global Forecast to 2031

<https://marketpublishers.com/r/P109DC377827EN.html>

Date: May 2026

Pages: 400

Price: US\$ 4,950.00 (Single User License)

ID: P109DC377827EN

Abstracts

The polyglycerol fatty acid ester (PGFE) market is projected to reach USD 310.9 million by 2031 from USD 251.9 million in 2026, at a CAGR of 4.3% from 2026 to 2031.”

The PGFE market is projected to remain in a niche that is expected to grow slowly but steadily, driven by rising worldwide interest in discovering more bio-based and high-performance emulsification agents for food, personal care, and pharmaceutical formulations. The market is currently growing and evolving through more advanced formulation technologies and processing methods, as well as an increased desire to incorporate multifunctional ingredients designed to improve stability, texture, performance, and cost-effectiveness. Key competitors within the market, such as Croda International Plc and Clariant AG, are investing heavily in formulation development and in sustainable, high-purity products to further cater to increasing demand for clean-label and innovative products. As the market moves toward greater demand for premium foodstuffs and superior personal care product formulations, global market growth is expected to continue at a steady pace.

Opportunities and disruption: The emerging opportunities and areas where the market is being disrupted are intrinsically linked to the ongoing market transition in PGFE toward a more sustainable, tailored, high-EFA formulation. From a manufacturer's point of view, PGFE is compelling because it enables the formulation of innovative food and cosmetic products that deliver benefits in texture, stability, and shelf life, particularly in the premium and 'clean' label market segments. From an ingredient supplier's point of view, opportunities are arising from heightened demand for highly technical, application-specific emulsifier products, offering potential for portfolio diversification and product innovation. Conversely, the market is being disrupted by forthcoming regulations and requirements, mounting competition from alternative emulsifiers, and increasing pressure for traceable, ethical sourcing and manufacturing, driven by the transition toward 'molecular, functional and scientific naturalness', sustainable manufacturing, and transparent sourcing practices.

AI-driven nutrient optimization: The use of Artificial Intelligence in personalized care cosmetics to improve performance and speed up the formulation process has been evolving rapidly. The use of Artificial Intelligence and Machine Learning techniques helps optimize the combination of ingredients, predict the compatibility of different actives within a formula, and improve formulation accuracy.

Advanced formulation technologies: These provide innovation in complex Cosmeceutical formulations. Technologies that improve the stability and bioavailability of ingredients, such as microencapsulation, liposomal technologies, and other delivery systems that facilitate penetration and optimize performance, are extensively used. Co-formulating active ingredients with synergistic actives, such as Hyaluronic Acid, Peptides, and Ceramides, is also a popular choice.

“Vegetable oil-based stood as the major source of the PGFE market.”

The vegetable oil-based segment captured the largest share in the PGFE market's source distribution. This is mainly due to the growing shift toward renewable and bio-based raw materials across food, personal care, and other industrial sectors. Vegetable oil-based PGFEs (palm, soybean, and coconut oil PGFEs) are the most widely used owing to their biodegradability, nontoxicity, and clean-label appeal, aligning with sustainable product goals. Growing consumer concern for natural and green ingredients has led to increased use of vegetable oil-based PGFEs. Positive acceptance by premium food and cosmetics companies also reinforces the traditional dominance of vegetable oil-based PGFEs. Furthermore, regulations promoting green chemistry and sustainable sourcing are helping this segment grow faster, as awareness of the

functional and environmental impact of plant-based emulsifiers is increasing.

In-depth interviews were conducted with chief executive officers (CEOs), directors, and other executives from various key organizations operating in the polyglycerol fatty acid ester (PGFE) market:

By Company Type: Tier 1 – 25%, Tier 2 – 45%, and Tier 3 – 30%

By Designation: Directors – 20%, Managers – 50%, Executives – 30%

By Region: North America – 25%, Europe – 30%, Asia Pacific – 20%, South America – 15%, and Rest of the World (Middle East & Africa) – 10%

Key companies operating in the polyglycerol fatty acid ester (PGFE) market include Croda International Plc (UK), Clariant AG (Switzerland), Lonza Group AG (Switzerland), Sakamoto Yakuhin Kogyo Co., Ltd. (Japan), Taiyo Kagaku Co., Ltd. (Japan), Riken Vitamin Co., Ltd. (Japan), Palsgaard A/S (Denmark), Nisshin Oillio Group Ltd. (Japan), Gattefossé (France), Stéarinerie Dubois (France), Oleon NV (Belgium), Ataman Kimya A.Ş. (Turkey), Foodchem International Corporation (China), Guangzhou Cardlo Biotechnology Co., Ltd. (China), and Henan Chemsino Industry Co., Ltd. (China).

Research Coverage:

Global Polyglycerol Fatty Acid Ester (PGFE) Market By Type (Monoglycerol Esters, Diglycerol Esters, Triglycerol Esters, Higher Polyglycerol Esters), Functionality (Emulsifiers & Stabilizers, Surfactants & Surface-active Agents, Dispersing Agents/Solubilizers, Fat Replacers & Texture Modifiers, Foam Control & Processing Aids, Other Functional Uses), End-use Industry (Food & Beverages, Personal Care & Cosmetics, Pharmaceuticals, Industrial), Source (Vegetable oil-based, Animal fat-based, Synthetic-based), Form (Liquid Solutions, Powder/Solid, Formulated Blends), Polyglycerol Degree (Low PG Esters (PG-3 to PG-5), Medium PG Esters (PG-6 to PG-8), High PG Esters (PG-9 and Above)), and Region - Global Forecast to 2031.

The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the global polyglycerol fatty acid ester (PGFE) market. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions and services, key strategies, contracts, partnerships, and agreements. Product & service

launches, mergers and acquisitions, and recent developments associated with the PGFE market. Competitive analysis of upcoming startups in the polyglycerol fatty acid ester (PGFE) market ecosystem is covered in this report.

Reasons to buy this report:

The report will provide market leaders and new entrants with the closest approximations of revenue figures for the overall polyglycerol fatty acid ester (PGFE) market and its subsegments. It will help stakeholders understand the competitive landscape and gain insights to position their businesses more effectively and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights into the following points:

1. **In-depth Segmentation across Type, Functionality, End-use Industry, Form, Source, and Polyglycerol Degree:** The study examines key drivers (Rising demand for advanced skincare ingredient, Increasing focus on hydration and anti-aging products, Growing R&D and innovation in bio-based and specialty chemical ingredients, Shift toward bio-based and sustainable ingredients), restraints (High production and formulation costs, Limited awareness among small and mid-scale manufacturers, Availability of substitute ingredients (e.g., hyaluronic acid, glycerin)), opportunities (Expansion in premium and dermatological skincare segments, Rising demand in Asia Pacific markets, Innovation in bio-catalysis and formulation technologies, Growing use in multifunctional cosmetic products), and challenges (Regulatory compliance across regions, Price sensitivity in developing markets, Supply chain and raw material dependency, Strong competition from established moisturizing ingredients).

2. **Region-specific Insights with Focus on Emerging Markets:** The report provides detailed country- and region-level analysis, highlighting growth opportunities across Asia Pacific, North America, Europe, Latin America, and the Middle East & Africa. It evaluates regional demand patterns, irrigation penetration, regulatory policies related to nutrient management, and investment trends in precision agriculture, offering strategic guidance for expansion and localization initiatives.

3. **Competitive Intelligence and Innovation Landscape:** Leading market participants, Croda International Plc (UK), Clariant AG (Switzerland), Lonza Group AG (Switzerland), and Sakamoto Yakuhin Kogyo Co., Ltd. (Japan), are profiled in detail. The report covers recent product launches, capacity expansions, strategic partnerships, and investments

in specialty nutrient technologies shaping the competitive dynamics of the global market.

4. Demand Forecasts Backed by Data-driven Methodologies: Market sizing and growth projections through 2031 are developed using a combination of top-down and bottom-up approaches, validated by industry experts, trade associations, and official government data. These insights provide reliable guidance for investment planning and market opportunity assessment in the global sector.

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