

Glucaric Acid Market Report by Product (Pure Glucaric Acid, Calcium D-glucarate, Potassium Sodium D-glucarate, D-glucaric Acid-1,4-lactone, and Others), Application (Food Ingredients, Detergents, Corrosion Inhibitors, De-icing Applications, and Others), and Region 2025-2033

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Report description:

The global glucaric acid market size reached USD 1,094.6 Million in 2024. Looking forward, IMARC Group expects the market to reach USD 1,922.8 Million by 2033, exhibiting a growth rate (CAGR) of 6.14% during 2025-2033. The increasing promotion of sustainable products, rising use of laundry detergents, and the growing sales of personal care and cosmetic products represent some of the key factors driving the market.

Glucaric acid (C₆H₁₀O₈), also known as polyhydroxy dicarboxylic acid or saccharic acid, is a naturally occurring compound found in various fruits or vegetables, such as oranges, apples, grapes, broccoli, and cabbage. It is also produced by the human body as a metabolite. It aids in improving liver health by eliminating toxic substances from the liver and reducing oxidative stress. It also helps protect against liver damage caused by alcohol consumption and other harmful substances. Its consumption can inhibit the production of beta glucuronidase in the body and minimize the risks of developing cancer. It is used in the manufacturing of bio based chemicals and other derivatives, such as potassium glucarate, sodium glucarate, calcium D-glucarate, and D-glucaric acid lactone.

Glucaric Acid Market Trends:

Due to increasing environmental concerns among the masses, governing agencies of numerous countries are undertaking measures to promote the use of sustainable products. This represents one of the major factors driving the demand for C₆H₁₀O₈ around the world. Moreover, the rising use of C₆H₁₀O₈ in cleaning products, such as laundry detergents and dishwashing detergents, on account of its ability to remove hard water stains and prevent buildup, is favoring the growth of the market. In

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addition, there is an increase in the use of C₆H₁₀O₈ in the production of personal care and cosmetic products, such as shampoo, conditioner, facial cleanser, toners, moisturizers, sunscreen, foundations, powder, face wash, body wash, and scrubs. It also acts as a chelating agent, which helps remove impurities and improve the skin texture. This, coupled with the growing demand for premium quality personal care and cosmetic products on account of the rising physical consciousness among individuals, is influencing the market positively. Apart from this, there is an increase in the utilization of C₆H₁₀O₈ as a food additive and flavoring agent for the preparation of various food products and beverages, including fruit juices, protein bars and powders, and sports drinks. This, along with the thriving food and beverage (F&B) industry, is propelling the growth of the market. Furthermore, the growing usage of C₆H₁₀O₈ in the agricultural industry as a plant growth promoter and fertilizer is creating a favorable outlook for the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global glucaric acid market report, along with forecasts at the global, regional and country level from 2025-2033. Our report has categorized the market based on product and application.

Product Insights:

- Pure Glucaric Acid
- Calcium D-glucarate
- Potassium Sodium D-glucarate
- D-glucaric Acid-1,4-lactone
- Others

The report has provided a detailed breakup and analysis of the glucaric acid market based on the product. This includes pure glucaric acid, calcium D-glucarate, potassium sodium D-glucarate, D-glucaric acid-1,4-lactone, and others. According to the report, pure glucaric acid represented the largest segment.

Application Insights:

- Food Ingredients
- Detergents
- Corrosion Inhibitors
- De-icing Applications
- Others

A detailed breakup and analysis of the glucaric acid market based on the application has also been provided in the report. This includes food ingredients, detergents, corrosion inhibitors, de-icing applications, and others. According to the report, detergents accounted for the largest market share.

Regional Insights:

- North America
 - o□ United States
 - o□ Canada
- Asia-Pacific
 - o□ China
 - o□ Japan
 - o□ India
 - o□ South Korea
 - o□ Australia
 - o□ Indonesia
 - o□ Others
- Europe

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- o Germany
- o France
- o United Kingdom
- o Italy
- o Spain
- o Russia
- o Others
- Latin America
- o Brazil
- o Mexico
- o Others
- Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others) was the largest market for glucaric acid. Some of the factors driving the Asia Pacific glucaric acid market included rising environmental concerns, government initiatives, product innovations, etc.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global glucaric acid market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include AK Scientific Inc., Alfa Chemistry, Carbosynth Ltd, Cayman Chemical Company, CHEMOS GmbH & Co. KG, Kalion Inc., Merck KGaA, The Archer-Daniels-Midland Company., etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:

- How has the global glucaric acid market performed so far, and how will it perform in the coming years?
- What are the drivers, restraints, and opportunities in the global glucaric acid market?
- What is the impact of each driver, restraint, and opportunity on the global glucaric acid market?
- What are the key regional markets?
- Which countries represent the most attractive glucaric acid market?
- What is the breakup of the market based on the product?
- Which is the most attractive product in the glucaric acid market?
- What is the breakup of the market based on the application?
- Which is the most attractive application in the glucaric acid market?
- What is the competitive structure of the global glucaric acid market?
- Who are the key players/companies in the global glucaric acid market?

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