

Sodium Gluconate Market Forecasts to 2030 – Global Analysis By Form (Powder and Liquid), Source (Powder and Liquid), Distribution Channel, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Sodium Gluconate Market is accounted for \$666.1 million in 2024 and is expected to reach \$928.9 million by 2030 growing at a CAGR of 5.7% during the forecast period. Sodium gluconate is the sodium salt of gluconic acid, commonly used as a chelating agent. It is a white, crystalline powder that dissolves easily in water. This compound is widely used in industries such as water treatment, cleaning products, and cosmetics due to its ability to bind and neutralize metal ions, preventing scaling and improving efficiency. Sodium gluconate is also used in food processing as a stabilizer and preservative, and in construction as a concrete additive to enhance workability and strength.

Market Dynamics:

Driver:

Growing demand for eco-friendly products

The growing demand for eco-friendly products is driving the market, as consumers and industries increasingly prioritize sustainable solutions. Sodium gluconate, being biodegradable and non-toxic, is gaining popularity in sectors like water treatment, cleaning, and cosmetics, where environmentally friendly alternatives are sought after. Its ability to replace harsher chemicals without compromising effectiveness makes it a favored choice in eco-conscious formulations. This shift toward green chemistry is fueling market growth, with businesses focusing on sustainable production and

packaging practices.

Restraint:

Availability of substitutes

The availability of substitutes for sodium gluconate poses a challenge to its market growth. alternative chelating agents, such as citric acid or glucono-delta-lactone, often offer similar benefits at a lower cost, making them attractive options for industries. These substitutes may also provide eco-friendly advantages, further driving competition. As a result, the presence of cheaper or more efficient alternatives could limit Sodium Gluconate's market share, especially in price-sensitive applications or where specific performance requirements are not critical.

Opportunity:

Rising use in the construction industry

The rising use of sodium gluconate in the construction industry is boosting its market growth. As a dispersing agent, it enhances the workability and fluidity of concrete, preventing clumping and improving the mixing process. Sodium gluconate also helps reduce the need for excess water, enhancing the strength and durability of the final product. Its role in controlling setting times and preventing scale formation is especially valuable in high-performance concrete formulations, making it an increasingly sought-after additive in construction projects.

Threat:

Price volatility of raw materials

Price volatility of raw materials negatively impacts the market by increasing production costs and creating instability. Key ingredients like glucose or corn-based products are subject to fluctuations due to factors like crop yields, and global supply chain disruptions. These price changes can lead to higher manufacturing expenses, making Sodium Gluconate less competitively priced compared to alternatives. Unpredictable raw material costs also hinder long-term planning and profitability for manufacturers, affecting the overall market stability.

Covid-19 Impact:

The COVID-19 pandemic negatively impacted the market by disrupting global supply chains, causing shortages of raw materials and delays in production. Many industries, such as construction and water treatment, faced project delays and reduced demand due to lockdowns and economic uncertainty. However, the growing emphasis on sanitation and hygiene during the pandemic led to an increase in the demand for eco-friendly cleaning products, slightly mitigating the overall downturn. Recovery is ongoing as industries gradually resume operations.

The natural sources segment is expected to be the largest market share during the forecast period

The natural sources segment is expected to account for the largest market share during the forecast period. These natural sugars undergo fermentation to produce gluconic acid, which is then neutralized with sodium hydroxide to form Sodium Gluconate. The use of renewable, plant-based sources aligns with the growing demand for sustainable and eco-friendly products in the market. As consumers and industries focus on environmentally conscious solutions, natural sourcing of Sodium Gluconate supports its appeal as a green alternative in various applications.

The antiscaling agent segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the antiscaling agent segment is predicted to witness the highest growth rate. By chelating metal ions like calcium and magnesium, it inhibits the precipitation of salts, reducing scale deposits that can impair equipment performance and efficiency. This property makes Sodium Gluconate valuable in water treatment, cleaning formulations, and cooling systems, where scale buildup is a common issue. Its eco-friendly and non-toxic nature enhances its appeal as a preferred antiscaling agent.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share. The region's focus on sustainable, eco-friendly products fuels the adoption of Sodium Gluconate as a biodegradable and non-toxic alternative to harsher chemicals. Additionally, its use in high-performance concrete and industrial applications continues to expand. North America's well-established infrastructure, along with rising environmental regulations, further supports the market's growth potential in the coming years.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR. The rise in consumer demand for processed foods, along with changing lifestyles, is contributing to the increased demand for Sodium Gluconate in the food sector, particularly in food preservation and as a flavor enhancer. Additionally, The increasing demand for clean water and wastewater treatment solutions in Asia Pacific countries is driving the use of Sodium Gluconate as a chelating agent to remove metal ions from water systems.

Key players in the market

Some of the key players in Sodium Gluconate market include Arch Chemicals, Cargill, Inc., Sigma-Aldrich, BASF SE, FMC Corporation, Shandong Xuye New Materials Co., Ltd., Zhejiang Realsun Chemical Co., Ltd., Tate & Lyle PLC, Rita Biotech, Gujarat Chemical Products, Zhejiang Tianxin Chemical Co., Ltd., Xiamen Hisunny Chemical Co., Ltd., Zibo Ruibang Fine Chemical Co., Ltd., Changzhou Niutang Chemical Plant Co., Ltd. and Jiangsu Jiahua Chemical Co., Ltd.

Key Developments:

In May 2023, Cargill's salt business has signed an agreement with CIECH Group, a leading supplier of evaporated salt products. The food grade evaporated salts manufactured by CIECH, will be combined with Cargill's industry-leading portfolio of specialty food salts, including Alberger®, Premier™, Microsized®, and Potassium Pro®. By working with CIECH, through their facilities in Janikowo, Poland and Stassfurt, Germany, Cargill now can provide access to a full range of specialty and evaporated food salt solutions to European food manufacturers.

Forms Covered:

Powder

Liquid

Sources Covered:

Natural Sources

Synthetic Sources

Distribution Channels Covered:

Direct Sales

Online Sales

Retail Sales

Applications Covered:

Chelating Agent

Antiscale Agent

Corrosion Inhibitor

Household Cleaners

Flavor Enhancer

Soil Treatment

Other Applications

End Users Covered:

Construction & Building

Water Treatment

Food & Beverage

Pharmaceuticals

Cleaning & Household Products

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations

- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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