

India Sodium Gluconate Market Assessment, By Grade [Food Grade, Industrial Grade, Pharma Grade, Others], By Application [Chelating Agent, Water Reducer, pH Adjuster, Stabilizer & Thickener, Superplasticizer, Others], By End-user [Food & Beverages, Personal Care, Cleaners & Detergents, Feed & Pet Food, Healthcare & Pharmaceuticals, Constructions, Others], By Region, Opportunities and Forecast, FY2017-FY2031F

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Abstracts

India sodium gluconate market size was valued at USD 98.94 million in FY2023, which is expected to reach USD 163.7 million in FY2031, with a CAGR of 6.5% for the forecast period between FY2024 and FY2031. The growing demand for sodium gluconate has driven the chemical manufacturing industries in India to increase production to meet consumer demands. Sodium gluconate, as an indispensable compound, has extensive application in textile dyeing, metal surface treatments, food additives, and personal care products, which is expected to create significant demand in India. Sodium gluconate is a crystalline powder with unique features such as non-corrosion, non-toxic, readily biodegradable, and water-soluble compound. Sodium gluconate is approved as a food additive and can be used in food preparations, which has generated huge potential for the market. As a prominent chelating agent sodium gluconate is progressively used with iron, magnesium, copper, etc., gradually forming chelates.

Sodium gluconate belongs to the category of polyhydroxy organic salt that readily solubilizes in water, is mildly soluble in alkanol, and completely insoluble in ether. Due

to its unique properties, sodium gluconate has wide applications in food, chemistry, industrial surfactants, etc. With extensive application in all essential commodities sodium gluconate has excellent market potential in India which always tends to rise with the increasing consumption of products.

Sodium Gluconate as a Multifunctional Compound to Drive the Market

Sodium gluconate has unique structural configuration and is imperatively assisted in delivering significant features to the various essential products. It possesses excellent inhibiting capacity to scale, employing sodium gluconate as a water quality stabilizer. The deposition of concrete can effectively be removed by adding sodium gluconate to it. It can act as a corrosion inhibitor for ferrous metals in different alkaline media and glycol solutions. For different elements such as calcium, iron, magnesium, aluminum, etc., sodium gluconate imparts its sequestrant characteristics in strongly alkaline conditions. Sodium gluconate and EDTA in equal ratio composition can be successfully used as a cleaning mixture for the ultra-filtration membranes in the dairy industry.

Sodium gluconate extend its application to the textile industry as it is profoundly used in the cleaning and degreasing of fibers, deliver its sequestrant property to metal cations which might leave harsh effect on dyeing. India is leading 5th in manufacturing textiles with a market size of USD 24.3 billion which substantially estimated to grow around USD 300 billion by 2047. The incredible cleansing properties of sodium gluconate has impeccable market opportunities in India to grow exponentially.

Sodium Gluconate as Food Additives

Sodium gluconate is substantially recognized as a harmless food additive food grade compound. Food-grade sodium gluconate is imperatively important for the human body as it can increase the sodium content in the body and remove the possibility of low sodium syndrome occurrence. Being considered as a food grade, sodium gluconate has benefits such as it reduces bitterness, excellent taste threshold, and lowering irritation. Also, in the growing green food industry sodium gluconate delivers impeccable characteristics like nutritional supplements, quality improvers, pH buffers, and food preservatives which can prominently enhance human health.

The Indian government has adopted significance to enhance the growth of food processing industries by investing in various projects which will successfully generate employment for 9 million between 2019 and 2024. Based on the data published by USDA Foreign Agricultural Service, by 2025-2026 India's food sector is estimated to

reach USD 535 billion with the rising consumption in metro cities. Food grade sodium gluconate serves as a functional flavoring, prevents protein denaturation, improves food taste, and eradicates bitter taste and astringency. Sodium gluconate can be superior to several organic food grades which significantly accelerate the market potential in India.

Sodium Gluconate as Chelating Agent

Sodium gluconate produced by the fermentation of glucose possesses excellent chelating properties and can be used extensively as a chelating agent. Its unique configuration where the oxygen atoms are closely positioned in proximity within the structure which imparts functional characteristic as a highly chelating compound and gradually forms stable complexes with different ions, substantially preventing them from participating in any chemical reactions. Its application as a chelating agent can be extensively found in cement, plating, and alumina dyeing industries.

The industry report published by India Brand Equity Foundation states that in 2022, the Indian market size of cement industry has reached 3.64 billion tons accounting it as the second-largest cement producer in the world. This progressive investment has propelled the market for sodium gluconate to be used as an effective chelating agent over a wide range of pH values. Extending its chelating applications to skin conditioning in cosmetic and personal care products. The market of sodium gluconate as a chelating agent is progressively growing which always generate excellent potential to augment the Indian market.

Impact of COVID-19

The outbreak of COVID-19 has unprecedented impact on public health, prevailing economy, and various sectors. There was a complete shift in consumer behavior and demand, disruptions in the supply chain, slowdown of market forces, which in total accounted for the pandemic impact. Temporary olfactory dysfunction was seen in many infected patients with COVID-19. Sodium gluconate, with its unique structural configuration, makes it an effective chelating agent and a water-soluble salt. It significantly binds the calcium elevation in the nasal secretions, ultimately reducing the adverse effects on olfactory function. During COVID-19, the usage of sodium gluconate increased in the pharmaceutical sectors due to the increased demand for producing effective nasal-related drugs. Even during the pandemic, the market for sodium gluconate was growing effectively, encouraging more companies to invest and generate a huge market for sodium gluconate in India.

Impact of Russia-Ukraine War

The aggression of Russia on Ukraine has severely impacted different level of economic growth including India. Disruptions in trade dynamics between India and both conflicting nations have prominently affected production and demand of sodium gluconate. The pressure of price variations, demand-supply implications, and more important parameters regulated the sodium gluconate market in India. The surprised annexation has substantially rolled out the mass production of sodium gluconate according to the demand in various essential products. But with the growing market commodities the production of sodium gluconate resumes generating successive market potential across chemical industries in India.

Key Players Landscape and Outlook

Chemical manufacturing industries in India are increasing the production of sodium gluconate due to the bulk requirement of sodium gluconate as a raw material. Vizag Chemical is substantially leading the Indian market. The company is successively producing sodium gluconate that is effectively used in concrete admixture and are huge supplier in Mumbai, Chennai, Visakhapatnam, Kolkata, with Middle East and African countries like Dubai, Oman, and Kenya. It has significantly generated huge economical demand for the Indian government encouraging them to start more like producing companies.

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*Companies mentioned above DO NOT hold any order as per market share and can be changed as per information available during research work

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