

Sodium Gluconate

Industrial Applications



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Sodium Gluconate, the sodium salt of gluconic acid, is a non-toxic, biodegradable compound widely used across various industries due to its excellent chelating properties, high solubility, and environmental friendliness.

Below are its key industrial applications:

Construction Industry



- ✔ Used as a concrete retarder to delay setting time, improving workability and strength development.
- ✔ Enhances water reduction in cement, leading to better durability and reduced cracking.

Pharmaceutical and Personal Care



- ✔ Utilized as a stabilizer in pharmaceutical formulations to maintain drug efficacy.
- ✔ Added in cosmetic products for its chelating properties, improving stability and effectiveness.

Textile and Leather Industry



- ✔ Functions as a dispersant and chelating agent in textile dyeing and printing to improve color fixation.
- ✔ Used in leather tanning to enhance the penetration of tanning agents and improve leather quality.

Water Treatment



- ✔ Acts as an effective chelating agent, preventing the precipitation of metal ions such as calcium, magnesium, and iron.
- ✔ Helps in scale removal and corrosion inhibition in industrial cooling and boiler systems.

Metal Cleaning and Surface Treatment



- ✔ Used in metal plating and electroplating processes to enhance metal adhesion and prevent oxidation.
- ✔ Helps in descaling and rust removal in industrial applications.

Sodium Gluconate's multifunctional properties make it an essential component in numerous industrial processes, ensuring efficiency, sustainability, and enhanced product performance.



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Citric Acid

Applications in Oil, Gas, and Industrial Sectors



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Citric Acid, a naturally occurring organic acid, is widely used across various industries due to its excellent chelating, pH-regulating, and biodegradable properties. In the oil, gas, and industrial sectors, it plays a crucial role in multiple applications.

Oil and Gas Industry



- ✔ Acts as a chelating agent to remove scale and mineral deposits in pipelines and equipment.
- ✔ Used in acidizing treatments to enhance well productivity by dissolving carbonate formations and iron deposits.
- ✔ Functions as a pH adjuster in drilling fluids to optimize performance and maintain stability.
- ✔ Helps in corrosion inhibition by complexing metal ions and preventing oxidative reactions.

Water Treatment



- ✔ Effectively removes heavy metal ions from industrial wastewater, ensuring compliance with environmental regulations.
- ✔ Prevents scaling in cooling towers, boilers, and heat exchangers, improving efficiency and longevity.

Metal Cleaning and Surface Treatment



- ✔ Used as a descaler and rust remover in metal processing and maintenance applications.
- ✔ Aids in passivation processes to enhance the corrosion resistance of stainless steel and other alloys.

Chemical Processing and Manufacturing



- ✔ Serves as a key component in various formulations, including detergents, cleaners, and lubricants.
- ✔ Acts as a buffering agent and emulsifier in numerous industrial chemical applications.

Textile and Leather Industry



- ✔ Utilized as a pH regulator and chelating agent in dyeing and tanning processes.
- ✔ Enhances the quality and stability of dyes, improving color retention and fabric longevity.

With its environmentally friendly nature and versatile functionality, Citric Acid continues to be a vital component in oil, gas, and industrial applications, contributing to process efficiency and sustainability.



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