



Sodium Gluconate

CAS Number: 527-07-1

Chemical Formula: $\text{NaC}_6\text{H}_{11}\text{O}_7$

Sodium Gluconate is the sodium salt of gluconic acid, appearing as a white crystalline powder. It is highly soluble in water and known for its excellent chelating power, non-toxicity, and biodegradability. The product is used in a wide range of applications including construction, water treatment, metal finishing, paper, textile, and personal care formulations.

Key Features

- High purity with low heavy metal content
- Effective chelating agent for calcium, iron, aluminium, and other metals
- Non-toxic, environmentally friendly, and readily biodegradable
- Excellent compatibility with other additives in multi-component formulations

APPLICATIONS

- Construction: Retarder and water reducer in concrete admixtures to improve workability and control setting time.
- Water Treatment: Chelating agent for scale removal and prevention in cooling systems.
- Metal Finishing: Complexing agent in electroplating and surface treatment processes.
- Paper & Textile: Auxiliary agent for bleaching, dyeing, and finishing.
- Other Uses: Ingredient in oral care products such as mouthwash, and in cleaning formulations.

PRODUCT SPECIFICATIONS

Parameters (units)	Specifications
Appearance	White crystal powder
Purity (%)	98.0 – 102.0
Loss on Drying (%)	≤ 0.50
Reducing Substances (%)	≤ 0.50
Heavy Metals (ppm)	≤ 10
Arsenic (ppm)	≤ 1.0
Sulfate (%)	≤ 0.02
Chloride (%)	≤ 0.02
Lead (ppm)	≤ 1.0
pH (10% solution)	6.5 – 7.8





**LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.**

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This document is subject to revision without notice as new data becomes available.

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PACKAGING

- 25 kg bags
- Super sacks (1,000 kg)

STORAGE & HANDLING

Store in a clean, dry, and well-ventilated area away from direct sunlight. Keep packaging sealed when not in use to avoid moisture absorption.

Safety

SAFETY

Consult the Safety Data Sheet (SDS) for full handling, storage, and personal protection recommendations. Avoid generating dust; use appropriate PPE to prevent inhalation or contact with eyes and skin.