

Technical Data Sheet

Sodium Gluconate · CAS 527-07-1 · C₆H₁₁NaO₇

TECHNICAL DATA SHEET (DRAFT) - Sodium Gluconate

Technical Grade / Construction Grade

Product Description

Sodium Gluconate is an organic sodium salt of gluconic acid. It is as a versatile sequestering agent and highly effective cement set retarder.

Physical and Chemical Properties

- Chemical Formula: C₆H₁₁NaO₇
- Molecular Weight: 218.14
- Solubility in Water: 59 g/100 mL (at 25°C)
- pH (10% aqueous solution): 6.5 – 7.5

Specifications

Property	Specification
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Appearance	White Crystalline Granules/Powder
Assay (Dry Basis)	"e 98.0%
Loss on Drying	"d 0.50%
Reducing Substances	"d 0.50%
Heavy Metals (as Pb)	"d 10 ppm
Chloride (Cl)	"d 0.05%
Sulfate (SO ₄)	"d 0.05%

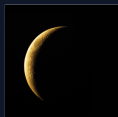
Key Applications

1. Construction: Retards concrete setting time and acts as a water reducer to improve strength and fluidity.
2. Industrial Cleaning: Used in bottle washing and surface pretreatment to remove rust and scale.
3. Agrochemicals: Carrier for micronutrients in fertilizers.
4. Water Treatment: Inhibits corrosion and scale in industrial boilers.

Recommended Dosage

Dosage varies by application. For concrete retardation, typically 0.01% to 0.05% by weight of cement, depending on required set time.

NOTE: This draft requires final validation by Moonarc Quality Control.



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