



Rochelle Salt (Potassium Sodium Tartrate)

CAS No.: 304-59-6

Formula: $C_4H_4O_6KNa \cdot 4H_2O$

DESCRIPTION

Rochelle Salt, or potassium sodium tartrate, is a double salt of tartaric acid produced through neutralization of potassium hydrogen tartrate with sodium hydroxide followed by purification and controlled crystallization. It forms colorless, transparent crystals readily soluble in water. In construction formulations, Rochelle Salt functions as an effective cement and gypsum retarder by slowing hydration and setting reactions, providing extended working time and improved control over setting behavior.

KEY FEATURES

- Strong piezoelectric and pyroelectric properties
- Highly soluble and stable crystalline form
- Mildly alkaline buffering capability
- Non-toxic and environmentally safe
- Versatile use in sensors, electrochemical and analytical applications

APPLICATIONS

- Cement and gypsum-based systems as a hydration and setting retarder
- Additive in construction admixtures and dry-mix mortar formulations
- Analytical reagent and component in metal finishing and plating solutions
- Auxiliary chemical in food and pharmaceutical processing (non-active applications)

TYPICAL SPECIFICATIONS

Parameter	Specification
Assay (%)	≥ 98.0
Chloride (%)	≤ 0.005
Iron (%)	≤ 0.002
Sulfates (%)	≤ 0.03
Heavy Metals (as Pb, mg/kg)	≤ 10
Arsenic (mg/kg)	≤ 2





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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

- Available in 25 kg bags and 1000 kg bulk sacks.
- Custom packaging may be available upon request.

STORAGE

Store in a cool, dry area away from direct sunlight. Keep containers tightly closed to prevent moisture absorption and maintain product quality.

SAFETY & HANDLING

Refer to the Safety Data Sheet (SDS) prior to use. Avoid contact with eyes and skin, and prevent inhalation of dust. Use appropriate protective equipment and maintain adequate ventilation during handling.