

PRODUCT IDENTIFICATION



Product Name: Sodium Chloride Technical Grade

CAS Number: 7647-14-5

Molecular Formula: ClNa

Molecular Weight: 58.44 g/mol

Grade: Technical Grade

Purity / Concentration: Not Available

Synonyms: Not Available

PRODUCT OVERVIEW

Sodium Chloride Technical Grade is a high-quality, white crystalline solid ideal for a wide range of industrial and laboratory applications. With a specific gravity of 2.16, this non-combustible material serves as a reliable, free-flowing chemical component for various manufacturing processes.

Grade Significance: Technical Grade indicates that the product is manufactured for industrial use rather than human consumption, providing a cost-effective solution for large-scale applications where food or pharmaceutical purity levels are not required.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	White crystalline solid, free-flowing and odorless	Form	Crystal
Boiling Point	1413°C (2575°F)	Melting / Freezing Point	801°C (1474°F)
Flash Point	Not applicable — non-combustible solid	Specific Gravity	2.16
Solubility	Freely soluble in water (~359 g/L at 20 °C) slightly soluble in ethanol	Molecular Formula	ClNa
Molecular Weight	58.44 g/mol		

APPLICATIONS

- Water Treatment** — Used as a primary agent in water softening systems to remove hardness-causing minerals through ion exchange.
- Chemical Manufacturing** — Serves as a fundamental raw material in the production of chlorine and caustic soda through electrolysis.
- Textile Processing** — Functions as a leveling agent in the dyeing process to ensure uniform color distribution across fabrics.
- Oil and Gas** — Utilized in drilling fluids to increase density and stabilize shale formations during the extraction process.
- Laboratory Research** — Acts as a standard reagent for various analytical procedures and chemical synthesis experiments.

STORAGE & HANDLING

Sodium Chloride is hygroscopic, meaning it readily absorbs moisture from the air, which can cause clumping and loss of flowability. Proper storage in a cool, dry, and well-ventilated area is essential to maintain product integrity and prevent caking within the packaging.

AVAILABLE PACKAGING

- 15 Lbs.
- 50 Lbs.

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: Not Classified



Hazard Statements:

- H318: Causes serious eye damage [Danger Serious eye damage/eye irritation]
- H412: Harmful to aquatic life with long lasting effects [Hazardous to the aquatic environment, long-term hazard]

Emergency Contact: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

For complete safety information, refer to the Safety Data Sheet (SDS) for this product.

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