

Technical Data Sheet (TDS)

1. Product Overview

- Product Name: Sodium Chloride
- English Name: Sodium Chloride; Common Salt
- CAS Number:7647-14-5
- Formula:NaCl
- Molecular Weight:58.44 g/mol
- Product Characteristics: White crystalline powder/granule, odorless, salty taste. High-purity inorganic salt with chemical stability, non-flammable, highly soluble in water. No corrosivity, low toxicity, compatible with most substances. Suitable for chemical synthesis, food processing, water treatment, and laboratory research.

2. Technical Specifications

Item	Specification
Appearance	White crystalline powder/granule
Purity (NaCl Content)	≥ 99.5%
Moisture Content	≤ 0.5%
Insoluble Matter in Water	≤ 0.01%
Heavy Metals (Pb)	≤ 0.5 ppm
Heavy Metals (As)	≤ 0.1 ppm
Iron (Fe)	≤ 0.5 ppm
pH Value (5% aqueous solution, 25°C)	6.5-7.5
Solubility (25°C)	36.0 g/100 mL water
Melting Point	801 °C
Boiling Point	1465°C
Density (20°C)	2.165 g/cm ³

3. Product Advantages

1. Ultra-High Purity: Low impurity and heavy metal content, meets multi-industry quality standards.
2. Chemical Stability: No reaction with most acids/bases under normal conditions, stable storage.
3. High Solubility: Rapid dissolution in water, uniform dispersion, easy to use.
4. Versatility: Adapt to industrial production, food processing, laboratory analysis and other scenarios.

4. Application Fields

- Chemical Synthesis: Precursor for sodium/potassium salts, chlorine gas, and caustic soda production.
- Food Industry: Food additive (flavor enhancer, preservative) for processed foods and seasoning.
- Water Treatment: Ion exchange resin regeneration, water softening, and swimming pool disinfection auxiliary.



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

- Laboratory Research: Analytical reagent, buffer solution preparation, and standard solution calibration.
- Industrial Processing: Metal heat treatment, leather tanning, and road de-icing (industrial grade).

5. Usage Methods

- Dosage: 1-50% concentration (adjust according to application scenarios).
- Application: Direct dissolution in water; mix evenly with other raw materials for solid blending.
- Optimal Conditions: Normal temperature and pressure; no special operating requirements, avoid long-term contact with high humidity air.

6. Packaging & Storage

- Packaging: 1kg/5kg HDPE bags, 25kg woven bags, 50kg paper drums (food grade with food contact certification).
- Storage: Cool, dry, well-ventilated warehouse ($\leq 30^{\circ}\text{C}$); sealed packaging, prevent moisture absorption and caking.
- Shelf Life: 24 months (unopened, under specified storage conditions).
- Transportation: Non-hazardous goods; transport by ordinary vehicles, avoid rain and moisture during transportation.

7. Safety & Protection

- Non-toxic, non-corrosive, non-irritating: No special protective measures for normal operation.
- Avoid excessive ingestion and dust inhalation; wear dust mask when handling large quantities of powder.
- In case of eye contact, rinse with clean water; no special first aid measures for accidental ingestion.

8. Quality Assurance

- Manufactured under ISO 9001 and ISO 22000 (food grade) quality management system.
- Each batch is equipped with a COA, and the test results are traceable.
- Provide technical support for product application and dosage optimization.