

SPECIFICATION

Product Name: Sodium Chloride Oral BP Grade
Chemical Formula: NaCl
CAS Number: 7647-14-5
Molecular Weight: 58.44 g/mol
Appearance: White crystalline powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification	-	Complies	A) It gives reaction (a) of chlorides.
	-	Complies	B) It gives reactions of sodium.
Appearance of solution	-	Solution S is clear and colourless.	Solution S is clear and colourless.
Acidity or alkalinity	-	0.2 ml is required	NMT 0.5ml of 0.01 M hydrochloride add or 0.01 M sodium hydroxide is required to change the colour of the indicator.
Bromides	PPM	Complies	Max. 100 PPM
Ferrocyanides	-	Complies	No blue colour develops within 10 min.
Iodides	-	Complies	The mixture shows no blue colour.
Nitrites	nm	Complies	The absorbance is not greater than 0.01 at 354nm.
Phosphates	PPM	Complies	Max. 25 PPM
Sulfates	PPM	Complies	Max. 200 PPM
Arsenic	PPM	Complies	Max. 1 PPM, determined on 5 ml of solution S.
Barium	-	Complies	As per BP

Iron	PPM	Complies	Max. 2 PPM, determined on solution S.
Magnesium and alkaline- earth metals	PPM	Complies	Max. 100 PPM, Calculated as Ca.
Loss on drying	%	0.31%	Max. 0.5%
Assay	%	99.35% ODB	99.0% to 100.5% (Dried substance)

Physical Properties

- Solubility: Soluble in water. Insoluble in ethanol. Soluble in glycerol.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
 - Storage Conditions: Store in a cool, dry place at 15–30°C. Protect from moisture, excessive humidity, and contamination. Keep the container tightly closed in the original, properly labeled container and store in a well-ventilated area away from incompatible materials to maintain product quality and stability.

Applications

- Use: Widely used as a source of sodium and chloride in pharmaceutical and nutraceutical formulations. It is commonly incorporated into oral rehydration salts (ORS), electrolyte solutions, tablets, capsules, powders, and oral liquids to help restore and maintain fluid and electrolyte balance, support normal nerve impulse transmission, muscle function, and acid–base balance.
 -Dosage: Depends on the therapeutic indication, patient age, clinical condition, and formulation. It should be used according to product specifications or as directed by a qualified healthcare professional.

Packaging

- Standard Packing: 25 Kgs woven pp bag with inner liner or as per customer requirement.
 - Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.
 * Specifications are based on the manufacturer's provided specifications.