

SPECIFICATION

Product Name: Sodium Chloride IP Grade
Chemical Formula: NaCl
CAS Number: 7647-14-5
Molecular Weight: 58.44 g/mol
Appearance: Colourless crystals or a white, Crystalline powder
Odor: Odorless.

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Identification			
A. Potassium Salt	-	Complies	A. A yellow or orange ppt formed.
B. Chlorides	-	Complies	B. A White curdy ppt form.
Arsenic	PPM	Complies	Max. 1 PPM
Barium	-	Complies	To Pass test
Heavy Metal	PPM	Complies	Max. 10 PPM
Calcium and Magnesium	-	Complies	To Passes Test
Iron	PPM	Complies	Max. 20 PPM
Bromide	%	Complies	Max. 0.1%
Iodides	-	Complies	The substance shows no blue color after 5 minutes
Sulfate	PPM	Complies	Max. 300 PPM
Loss On Drying	%	0.37%	Max. 1%
Assay	%	99.58%	99.0% to 100.5%
Aluminium	PPM	Complies	Max. 1 PPM
Sodium	%	Complies	Max. 0.1%
Alkalinity/Acidity	-	Complies	NMT 0.5 ml of 0.1 M NaOH or 0.01 M HCL is required

Physical Properties

- Solubility: Freely soluble in water. Slightly soluble in glycerin. Sparingly soluble in ethanol. Practically insoluble in ether.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed container in a cool, dry, and well-ventilated place, protected from moisture, humidity, and contamination. Keep the container tightly sealed when not in use to prevent caking and maintain product quality.

Applications

- Use: Widely used as an electrolyte replenisher, tonicity agent, flavoring agent, and pharmaceutical excipient in pharmaceutical, nutraceutical, food, and medical applications. It helps maintain fluid and electrolyte balance and is an essential component in many formulations.
- Dosage: Depends on the intended application, formulation, and electrolyte requirements.

Packaging

- Standard Packing: 25 kg woven PP bags with inner liner and 100 Grams 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.