

SPECIFICATION

Product Name: Ammonium Chloride BP Grade
Chemical Formula: NH ₄ Cl
CAS Number: 12125-02-9
Molecular Weight: 53.491 g/mol
Appearance: White crystalline powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification Test (A) Test (B)	- -	Complies Complies	(A) It gives the reaction of chlorides. (B) The solution gives the reaction of ammonium salts.
Appearance of solution	-	Complies	Solution is clear and colourless
Acidity and alkalinity	-	Complies	Specified test
Bromides and iodides	-	Complies	Specified test. The chloroform layer remains colourless.
Sulfates	PPM	Complies	NMT 150 PPM
Calcium	PPM	Complies	NMT 200 PPM
Iron	PPM	Complies	NMT 20 PPM
Loss on drying	%	Complies	NMT 1.0%
Sulfated ash	%	Complies	NMT 0.1%
Assay	%	99.60%	NLT 99.0% and NMT 100.5% (Dried substance)

Physical Properties

- Solubility: Soluble in water. Soluble in ethanol. Insoluble in acetone. Insoluble in ether.

Shelf Life & Storage

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

Applications

- Use: Widely used as an expectorant, systemic acidifying agent, and urinary acidifier in pharmaceutical formulations. It helps loosen and thin respiratory secretions, making mucus easier to expel in productive coughs. It is also used to correct certain metabolic alkalosis conditions and to acidify urine when clinically indicated.
- Dosage: Depends on the therapeutic indication, patient age, clinical condition, and formulation. It should be used only under the supervision of 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.