

SPECIFICATION

Product Name: Ammonium Carbonate
Chemical Formula: $(\text{NH}_4)_2\text{CO}_3$
CAS Number: 506-87-6
Molecular Weight: 96.09 g/mol
Appearance: White powder
Odor: Odor

Chemical Composition

Parameter	Unit	Typical Value
Solubility (10% solution in water)	%	Clear solution
pH of 5% solution	%	8.6 – 9.5
Ammonia	%	Not less than 30
Chloride	%	0.0050
Sulphate	%	0.0050
Iron	%	0.0020

Physical Properties

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

Shelf Life & Storage

- Shelf Life: 2 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated place, preferably at below 25°C. Protect from heat, moisture, direct sunlight, and air, as ammonium carbonate readily decomposes, releasing ammonia (NH_3) and carbon dioxide (CO_2). Keep the container tightly closed in the original, airtight, properly labeled packaging. Store away from strong acids, strong oxidizing agents, and incompatible materials. Proper storage helps maintain the product's purity, potency, and stability while minimizing decomposition and loss of ammonia.

Applications

- Use: Widely used as a leavening agent, buffering agent, pH-adjusting agent, and ammonia source in food, pharmaceutical, chemical, and laboratory applications. In the food industry (food-grade), it is commonly used in biscuits, crackers, cookies, and other baked goods to produce a light, crisp texture by releasing ammonia and carbon dioxide during baking. In pharmaceutical formulations, it is used as an expectorant, smelling salt ingredient, and pH-adjusting agent in selected preparations. It is also used in the chemical industry for the manufacture of ammonium salts, dyes, catalysts, cleaning agents, and laboratory reagents.
- Dosage: Depends on its grade (food, pharmaceutical, or technical) and intended application.

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.