


Ammonium chloride

Product Information

Chemical name :	Ammonium chloride , ACS grade Syn.: sal ammonium	
	CAS: 12125-02-9 EC number: 235-186-4 EINECS: 231-420-4 +	
Cat. Number :	611530, 500g 611531, 1Kg 611532, 2.5Kg	
Structure :	NH ₄ Cl	NH ₄ Cl
Molecular Weight :	53.49	
Properties:	Form: white solid crystalline powder Melting point: 338 °C (decomposes) Density: 2.20 g/cm ³ Boiling point: 520°C pKa: 9.245 Refractive index (nD): 1.642 Solubility : readily soluble in water >30% w/v	

Storage: Room temperature (z)

Safety:  **Harmful, Irritant .**
Xn, Xi LD50: LD50 (rat, oral)
GHS hazard statements: H302, H319 Risk Statements: 36/37/38
GHS precautionary statements: P305+351+338 Safety Statements: 36/37/39

Applications: Suitable for many biochemistry and biotechnology applications.

Specifications

Test	Specifications
Purity	>99.5%
Iron (%)	0.0002
Heavy Metals (as Pb)	0.0005
Magnesium (%)	0.0005%
Phosphates (%)	0.0002%
Sulfate (%)	0.002%
Insolubles	0.0002%
Residue on ignition (%)	0.01%
pH (5%, Water)	4.5 - 5.5

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Contact your local distributor

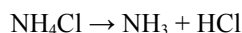
uptima@interchim.com

Technical information

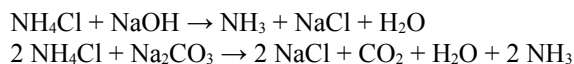
•Chemical reactions

Ammonium chloride (salt ammoniac: natural mineralogic form) is an inorganic compound , that is highly soluble in water. Solutions of ammonium chloride are mildly acidic.

Ammonium chloride decompose upon heating into ammonia and hydrogen chloride gas:



It reacts with a strong base, e.g. sodium hydroxide, and similarly, with alkali metal carbonates at elevated temperatures:



A 5% by weight solution of ammonium chloride in water has a pH in the range 4.6 to 6.0.^[5]

Ammonium chloride solutions with ammonia are used as buffer solutions. It can be used as acidifying agent , and as an electrolyte. It also produce low temperatures in cooling baths.

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.
Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06

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