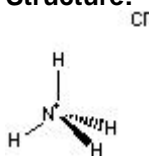


TECHNICAL INFORMATION

Catalog Number: 150109, 191406, 194623, 194806

Ammonium Chloride

Structure:



Molecular Formula: NH₄Cl

Molecular Weight: 53.5

CAS # 12125-02-9

Synonyms: Ammonium chloride; Amchlor; Ammoneric; Darammon; Sal ammoniac; Ammonium muriate; Salmiac

Physical Appearance: White crystalline powder

Solubility: Soluble in water (100 mg/ml - clear, colorless solution). The presence of hydrochloric acid or sodium chloride decrease water solubility.¹ Also soluble in methanol and ethanol.¹

pH:¹

1% aqueous solution: 5.5

3% aqueous solution: 5.1

10% aqueous solution: 5.0

Description: Ammonium chloride is used in both industrial and research applications. Industrial applications include as a flux for coating sheet iron with zinc; tinning; in dry and Leclanch batteries; dyeing, freezing mixtures, electroplating, to clean soldering irons, safety explosives, lustering cotton, tanning; in washing powders; manufacturing of dyes; in cement for iron pipes; for snow treatment (slows melting on ski slopes).¹

In research, ammonium chloride has been used in:

- To lyse human red blood cells^{2,5,8}
- Used in the study of basic calcium phosphate crystals in fibroblasts⁴
- Used in the isolation of proteins from 50S ribosomal subunits of *Bacillus stearothermophilus*³
- Used in biological buffers

Availability:

Catalog Number	Description	Size
150109	Ammonium Chloride	100 g 500 g 1 kg
194623	Ammonium Chloride, cell culture reagent	100 g 500 g 1 kg
194806	Ammonium Chloride, molecular biology reagent	100 g 500 g 1 kg
191406	Ammonium Chloride ACS Reagent Grade	500 g 1 kg 5 kg

Also Available:

Catalog Number	Description	Size
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540113	Ammonium Chloride-¹⁵N, purity 99% ¹⁵N atom	1 g
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References:

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