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## Certificate of Analysis

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Product Name: Ammonium Chloride  
CAS Number: 12125-02-9  
EC Number: 235-186-4  
Product Code: CP-A1097D  
Manufactured Date: Nov-2022

Grade: Reagent ACS Grade  
Formula:  $\text{NH}_4\text{Cl}$   
Formula weight: 53.49 g/mol  
Lot: 2022111982  
Retest Date: Nov-2025

Meets ACS Specifications

Test	Specifications	Analysis Results
Assay ( $\text{NH}_4\text{Cl}$ )	99.5 % min.	99.8%
Heavy Metals ( as Pb)	5 ppm max.	<2 ppm
Insoluble Matter	0.005% max	0.002%
Iron (Fe)	2 ppm max	< 2ppm
Magnesium (Mg)	5 ppm max.	2 ppm
Calcium ( Ca )	10 ppm max.	3 ppm
pH of 5% solution at 25C	4.5 – 5.5	5.0
Phosphate ( $\text{PO}_4$ )	2 ppm max.	<2 ppm
Sulfate ( $\text{SO}_4$ )	20 ppm max	< 20 ppm
Residue After Ignition	0.01 % max.	0.008%
Manufacture Date		11-19-2022
Expiration Date		11-18-2025

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