

Certificate of Analysis

Product Name: Ammonium chloride

ACS reagent, >= 99.5 %

Product Number:213330Batch Number:BCCH1021CAS Number:12125-02-9Formula: NH_4CI Formula Weight:53.49

Quality Release Date: 26 JAN 2022 Recommended Retest Date: JAN 2025

| TEST | SPECIFICATION | RESULT |
|----------------------------|--------------------------------|-------------------------------|
| APPEARANCE (COLOR) | WHITE | WHITE |
| APPEARANCE (FORM) | POWDER OR CRYSTALS OR CHUNK(S) | CRYSTALS |
| ARGENTOMETR. TITRATION | 99.5 - 101.0 % | 100.1 % |
| PH-TEST | 4.5 - 5.5 | 4.8 |
| PH (METHOD) | 25C (5% SOLUTION) | 25C (5% SOLUTION) |
| SULFATED ASH | ≤ 0.01 % | 0.00 % |
| ACS SPECIFICATIONS | CORRESPONDS TO REQUIREMENTS | CORRESPONDS TO ACS (11TH ED.) |
| REMARKS ON ACS | INSOLUBLE MATTER ≤ 0.005% | INSOLUBLE MATTER ≤ 0.005% |
| METAL TRACE ANALYSIS (ICP) | CORRESPONDS TO REQUIREMENTS | PASSED |
| CALCIUM (ICP) | ≤ 10 MG/KG | < 10 MG/KG |
| IRON (ICP) | ≤ 2 MG/KG | < 2 MG/KG |
| MAGNESIUM (ICP) | ≤ 5 MG/KG | < 5 MG/KG |
| TOTAL SULFUR AS SO4 (ICP) | ≤ 20 MG/KG | < 20 MG/KG |
| Heavy metals (by ICP) | ≤ 5 MG/KG | < 5 MG/KG |
| PHOSPHATE (PO4) | ≤ 2 MG/KG | < 2 MG/KG |
| 11100111A1E (1 04) | 3 2 IVIO/INO | < 2 IVIO/ICO |

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Dr. Reinhold Schwenninger

Quality Assurance Buchs, Switzerland

Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



