

Ammonium Chloride, Crystal
AR® (ACS)



Material No.: 3384-12
Batch No.: 0000019554
Manufactured Date: 2011/10/03
Retest Date: 2016/10/01

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

| Test | Specification | Result |
|--|---------------|---------|
| ACS - Assay (NH ₄ Cl) (by Ag titrn) | >= 99.5 % | 99.9 |
| ACS - Calcium (Ca) | <= 0.001 % | < 0.001 |
| ACS - Insoluble Matter | <= 0.005 % | < 0.001 |
| ACS - Iron (Fe) | <= 2 ppm | < 1 |
| ACS - Magnesium (Mg) | <= 5 ppm | 3 |
| ACS - pH of 5% Solution at 25°C | 4.5 - 5.5 | 5.0 |
| ACS - Phosphate (PO ₄) | <= 2 ppm | < 2 |
| ACS - Residue after Ignition | <= 0.01 % | < 0.01 |
| ACS - Sulfate (SO ₄) | <= 0.002 % | < 0.002 |
| ACS - Appearance (white crystals) | Passes Test | PT |
| Heavy Metals (as Pb) | <= 2 ppm | < 2 |
| Nitrate (NO ₃) | <= 5 ppm | < 5 |

For Laboratory, Research, or Manufacturing Use

Country of Origin: MX
Packaging Site: Paris Mfg Ctr & DC



Phillipsburg, NJ 9001:2008, 14001:2004
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 17025:2005
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008, 17025:2005
Panoli, India 9001:2008

Richard M Siberski
Global Director of Quality Assurance

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor™ Performance Materials Inc.

3477 Corporate Parkway, Suite #200, Center Valley, PA 18034, U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610