

Ammonium Chloride, Crystal  
AR® (ACS)



Material No.: 3384-12  
Batch No.: 0000004818  
Manufactured Date: 2012/02/07  
Retest Date: 2017/02/05

## Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Assay (NH <sub>4</sub> Cl) (by Ag titrn)	≥ 99.5 %	99.8
ACS - Calcium (Ca)	≤ 0.001 %	< 0.001
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5
ACS - Insoluble Matter	≤ 0.005 %	< 0.001
ACS - Iron (Fe)	≤ 2 ppm	2
ACS - Magnesium (Mg)	≤ 5 ppm	1
ACS - pH of 5% Solution at 25°C	4.5 - 5.5	5.0
ACS - Phosphate (PO <sub>4</sub> )	≤ 2 ppm	< 2
ACS - Residue after Ignition	≤ 0.01 %	0.01
ACS - Sulfate (SO <sub>4</sub> )	≤ 0.002 %	< 0.002
ACS - Appearance (white crystals)	Passes Test	PT

For Laboratory, Research, or Manufacturing Use

Storage Conditions:

Country of Origin: MX

Packaging Site: Paris Mfg Ctr & DC

ISO

Phillipsburg, NJ 9001.2008, 14001.2004  
Paris, KY 9001.2008  
Mexico city, Mexico 9001.2008  
Deventer, The Netherlands 9001.2008, 14001.2004  
Selangor, Malaysia 9001.2008  
Panoli, India 9001.2008  
Gliwice, Poland 9001.2008, 17025.2005

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