

Ammonium Chloride, Crystal  
AR® (ACS)



Material No.: 3384-12  
Batch No.: 0000039876  
Manufactured Date: 2012/11/23  
Retest Date: 2017/11/22

## Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Assay (NH <sub>4</sub> Cl) (by Ag titrn)	>= 99.5 %	99.7
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	<1
ACS - pH of 5% Solution at 25°C	4.5 - 5.5	4.8
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
Heavy Metals (as Pb)	<= 2 ppm	< 2
Nitrate (NO <sub>3</sub> )	<= 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

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