

Material No.: 3384-12  
Batch No.: 23D0761043  
Manufactured Date: 2022-09-14  
Retest Date: 2029-09-12  
Revision No.: 0

## Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Assay (NH <sub>4</sub> 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	< 2 ppm
ACS - Magnesium (Mg)	≤ 5 ppm	2 ppm
ACS - pH of 5% Solution at 25°C	4.5 - 5.5	4.7
ACS - Phosphate (PO <sub>4</sub> )	≤ 2 ppm	< 2 ppm
ACS - Residue after Ignition	≤ 0.01 %	< 0.01 %
ACS - Sulfate (SO <sub>4</sub> )	≤ 0.002 %	< 0.002 %
ACS - Appearance (white crystals)	Passes Test	Passes Test
Heavy Metals (as Pb)	≤ 2 ppm	< 2 ppm
Nitrate (NO <sub>3</sub> )	≤ 5 ppm	< 5 ppm

For Laboratory, Research, or Manufacturing Use

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



Jamie Ethier  
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Page 1 of 1