



Ammonium Hydroxide, 28.0-30.0%

BAKER ANALYZED[®] A.C.S. Reagent

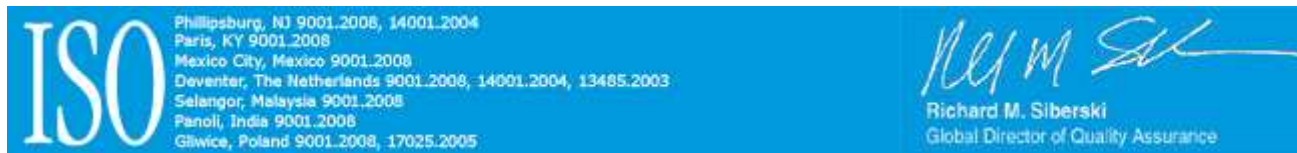
Product No. 9721

Lot No. L15045

Release Date 04/16/2012

Certificate of Analysis

TEST	SPECIFICATION	RESULT
Meets A.C.S. Specifications		
Meets Reagent Specifications for testing USP/NF monographs		
Appearance (Colorless and free from suspended matter or sediment)	Passes Test	Passes Test
Assay (as NH ₃)	28.0 - 30.0 %	28.7 %
Color (APHA)	5 max.	5
Specific Gravity at 60°/60°F	0.896 - 0.902	0.900
Residue after Ignition	0.002 % max.	< 0.0003 %
Carbon Dioxide (CO ₂)	0.002 % max.	< 0.001 %
Substances Reducing Permanganate	Passes Test	Passes Test
Trace Impurities (in ppm):		
Chloride (Cl)	0.5 max.	< 0.2
Nitrate (NO ₃)	2 max.	< 0.4
Phosphate (PO ₄)	2 max.	< 0.05
Sulfate (SO ₄)	2 max.	< 0.2
Trace Impurities (in ppb):		
Aluminum (Al)	200 max.	< 5
Arsenic and Antimony (as As)	3000 max.	< 5
Barium (Ba)	300 max.	< 1
Boron (B)	50 max.	< 5
Chromium (Cr)	100 max.	< 1
Copper (Cu)	100 max.	< 1
Gold (Au)	200 max.	< 5
Heavy Metals (as Pb)	500 max.	< 100
Iron (Fe)	100 max.	3
Lead (Pb)	200 max.	< 10
Magnesium (Mg)	200 max.	< 1
Manganese (Mn)	100 max.	< 1
Nickel (Ni)	100 max.	< 5
Tin (Sn)	100 max.	< 10
Titanium (Ti)	100 max.	< 1
Zinc (Zn)	100 max.	< 1
Country of Origin: USA		



For questions on this Certificate of Analysis please contact Technical Services at 855-282-6867 or 610-573-2600

Avantor™ Performance Materials, Inc.

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