

Certificate of Analysis

SIGMA-ALDRICH

Product Name	Ammonium acetate, ≥99.99% trace metals basis
Product Number	431311
Product Brand	SIGALD
CAS Number	631-61-8
Molecular Formula	CH ₃ CO ₂ NH ₄
Molecular Weight	77.08
Storage Temp	room temp

TEST	SPECIFICATION	LOT 11019JC RESULTS
APPEARANCE	MOIST WHITE CRYSTALS	MOIST WHITE CRYSTALS
INFRARED SPECTRUM	CONFORMS TO STRUCTURE.	CONFORMS TO STRUCTURE.
TITRATION	97.0% (MINIMUM) (WITH NAOH)	98.3% (WITH NAOH) *
RESIDUE ON IGNITION	0.01% (MAXIMUM)	0.005% *
TRACE ANALYSIS, ICP	100 PPM (MAXIMUM) TOTAL METALLIC IMPURITIES	TRACE ELEMENTS IN PPM NA 6.0 B 0.5 CA 0.4 CU 0.3 AS 0.1
INSOLUBLE MATTER	0.005% (MAXIMUM) (C=10%, H ₂ O)	0.004% (10%, H ₂ O) *
CHLORIDE	5 PPM (MAXIMUM)	4 PPM *
IRON	5 PPM (MAXIMUM)	4 PPM *
HEAVY METALS	5 PPM (MAXIMUM) (AS PB)	4 PPM (AS PB) *
NITRATE	0.001% (MAXIMUM)	0.0007% *
PH	6.7 - 7.3 @ 25 DEGREES CELSIUS (C=5%, H ₂ O)	7.1 @25 DEG C (5% SOLUTION) *
SULFATE	0.001% (MAXIMUM)	0.0008% *
PURITY	PURITY BASED ON TRACE METALS ANALYSIS APPROVED JANUARY 8, 1997 JSB	>99.99+% BASED ON TRACE METAL ANALYSIS MEETS REQUIREMENTS OF ACS 9TH ED AUGUST, 2004
QUALITY CONTROL ACCEPTANCE DATE		

A handwritten signature in black ink, reading "Barbara Rajzer". The script is fluid and cursive, with the first name "Barbara" and last name "Rajzer" clearly distinguishable.

Barbara Rajzer, Supervisor
Quality Control
Milwaukee, Wisconsin USA