

## Certificate of Analysis

Date of Testing: 2023-01-09 11:16:43  
 Date of Next Testing: 2027-01-08 11:16:43  
 Product Name: **Hydroxylammonium chloride**  
 CAS Number: 5470-11-1  
 Specifications & Purity: 99.99% metals basis  
 Lot #: A2305466  
 SKU #: **H112477**  
**Analysis:** **151916**  
 Storage Temperature: Argon charged

Parameter	Limit Values	Result
Trace Metal Analysis	0-100 (ppm)	5.00 ppm
Heavy metal (as Pb)	0-5 (ppm)	1.25 ppm
Sulfate(SO42-)	0-0.005 (%)	0.00 %
Purity(Titration by KMNO4)	98.5-101.5 (%)	99.90 %
Iron(Fe)	0-5 (ppm)	2.85 ppm
Titration Acid	0-0.25 (mg/g)	0.14 mg/g
Ignition Residue	0-0.05 (%)	0.01 %
Purity(Based On Trace Metals Analysis)	99.99-100 (%)	100.00 %
Appearance (H112477)	White crystals	White crystals
Ammonia (NH4)	Pass	Pass
Clarity of solution	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility,100mg/ml in water	Clear and colorless	Clear and colorless



John Su  
 QA & QC Manager