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Certificate of Analysis

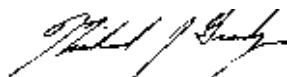
Product Name:

Hydroxylamine hydrochloride - ACS reagent, 98.0%

Product Number: 255580
Batch Number: MKCK7294
Brand: SIGALD
CAS Number: 5470-11-1
MDL Number: MFCD00051089
Formula Weight: 69.49 g/mol
Quality Release Date: 22 AUG 2019
Recommended Retest Date: JUL 2022

 $\text{NH}_2\text{OH} \cdot \text{HCl}$

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystal or Chunk(s)	Crystals
Infrared Spectrum	Conforms to Structure	Conforms
Titration by KMNO ₄	97.5 - 102.5 %	99.2 %
Residue on ignition (Ash)	≤ 0.05 %	0.02 %
Clarity of Solution 1 g in 25 mL Ethanol	Pass	Pass
Iron (Fe)	≤ 5 ppm	3 ppm
Heavy Metals	≤ 5 ppm	< 1 ppm
Ammonium	Pass	Pass
Sulfur Compounds	≤ 0.005 %	< 0.005 %
Titrateable Acid (meq/g)	≤ 0.25	< 0.25
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period 3 Years	-----	-----



Michael Grady, Manager
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.