

## Certificate of Analysis

Date of Testing: 2022-03-26 17:02:16  
Date of Next Testing: 2024-03-15 17:02:16  
Product Name: **Sodium sulfide nonahydrate**  
CAS Number: 1313-84-4  
Specifications & Purity: 99.99% metals basis  
Lot #: C2224294  
SKU #: **S116078**  
**Analysis: 041811**  
Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

Parameter	Limit Values	Result
Ammonia (NH <sub>4</sub> )	0-0.005 (%)	0.00 %
Purity(Based on Trace Metals Impurities of ICP)	99.99-100 (%)	100.00 %
Sulfite and Thiosulfite	0-0.1 (%)	0.00 %
Total Metallic Impurity	0-100 (ppm)	19.00 ppm
Assay(Titration by Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> )	98-102 (%)	98.01 %
Appearance (S116078)	Colorless to White Crystals and/or Chunks	Colorless to White Crystals and/or Chunks
ICP:Confirms Na and S Component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager