

Certificate of Analysis

Date of Testing: 2025-03-05 16:52:15

Date of Next Testing: 2029-03-04 16:52:15

Product Name: **Manganese Chloride Tetrahydrate**

CAS Number: 13446-34-9

Specifications & Purity: PrimorTrace™, ≥99.99% metals basis

Lot #: B2528487

SKU #: **M109463**

Version: **0**

Analysis #: **450301**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	33-39 (%)	36.65 %
Mn(Complexometric EDTA)	25.5-29 (%)	27.69 %
Total trace metal imp	0-150 (ppm)	88.00 ppm
Purity(Based On Trace Metals Analysis)	99.99-100 (%)	99.99 %
Appearance (M109463)	light red to dark red crystals	light red to dark red crystals
ICP:Confirms Manganese Component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager