

Certificate of Analysis

Date of Testing: 2023-02-14 11:41:20
Date of Next Testing: 2027-02-13 11:41:20
Product Name: **Manganese Chloride Tetrahydrate**
CAS Number: 13446-34-9
Specifications & Purity: 99.99% metals basis
Lot #: B2309023
SKU #: **M109463**
Version: **0**
Analysis #: **043024**
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Mn(Complexometric EDTA)	25.5-29 (%)	27.36 %
Purity(Based On Trace Metals Analysis)	99.99-100 (%)	99.99 %
Total trace metal imp	0-150 (ppm)	99.00 ppm
Water by Karl Fischer	33-39 (%)	34.48 %
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