

Certificate of Analysis

Date of Testing: 2023-04-15 06:18:56
Date of Next Testing: 2027-04-14 06:18:56
Product Name: **Manganese Chloride Tetrahydrate**
CAS Number: 13446-34-9
Specifications & Purity: 99.99% metals basis
Lot #: D2311885
SKU #: **M109463**
Version: **0**
Analysis #: **187168**
Storage Temperature: Argon charged

| Parameter | Limit Values | Result |
|--|--------------------------------|--------------------------------|
| Total trace metal imp | 0-150 (ppm) | 99.00 ppm |
| Water by Karl Fischer | 33-39 (%) | 38.13% |
| Purity(Based On Trace Metals Analysis) | 99.99-100 (%) | 99.99% |
| Mn(Complexometric EDTA) | 25.5-29 (%) | 27.92% |
| 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