

## Certificate of Analysis

Date of Testing: 2024-03-05 13:47:11  
Date of Next Testing: 2028-03-04 13:47:11  
Product Name: **Manganese chloride**  
CAS Number: 7773-01-5  
Specifications & Purity: anhydrous, 99.99% metals basis  
Lot #: B2423270  
SKU #: **M122431**  
Analysis: **316314**

| Parameter                                       | Limit Values          | Result                |
|---|-----------------------|-----------------------|
| Insoluble matter in H2O                         | 0-0.005 (%)           | 0.00 %                |
| Water by Karl Fischer                           | 0-1 (%)               | 0.18 %                |
| Purity(Based on Trace Metals Impurities of ICP) | 99.99-100 (%)         | 99.99 %               |
| Total Metallic Impuritie                        | 0-200 (ppm)           | 196.00 ppm            |
| Appearance (M122431)                            | Pink Beads or Powder  | Pink Beads or Powder  |
| ICP: Confirmed                                  | Confirms Mn Component | Confirms Mn Component |
| X-Ray Diffraction                               | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager