

## Certificate of Analysis

Date of Testing: 2025-02-14 17:50:03

Date of Next Testing: 2029-02-13 17:50:03

Product Name: **Manganese dioxide**

CAS Number: 1313-13-9

Specifications & Purity:  $\geq 99\%$  metals basis

Lot #: A2522072

SKU #: **M118110**

Version: **0**

Analysis #: **428793**

| Parameter                              | Limit Values                       | Result                             |
|----------------------------------------|------------------------------------|------------------------------------|
| Total Metallic Impuritie               | 0-10000 (ppm)                      | 76.00 ppm                          |
| Titration by KMNO4 (% Mn)              | 62.6-65.1 (%)                      | 65.04 %                            |
| Purity(Based On Trace Metals Analysis) | 99-100 (%)                         | 99.99 %                            |
| Appearance (M118110)                   | Grey to Black Powder and/or Chunks | Grey to Black Powder and/or Chunks |
| X-Ray Diffraction                      | Conforms to Structure              | Conforms to Structure              |



John Su  
QA & QC Manager