

## Certificate of Analysis

Date of Testing: 2022-09-01 21:38:08

Date of Next Testing: 2026-08-31 21:38:08

Product Name: **Manganese dioxide**

CAS Number: 1313-13-9

Specifications & Purity: 98% metals basis

Lot #: H2231635

SKU #: **M118109**

**Analysis: 130645**

Parameter	Limit Values	Result
Purity(Based On Trace Metals Analysis)	98-100 (%)	99.94%
Titration by KMNO4 (% Mn)	62-100 (%)	63.58%
Total Metallic Impuritie	0-20000 (ppb)	593.00 ppb
Appearance (M118109)	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