

## Certificate of Analysis

Date of Testing: 2024-08-09 10:22:16  
Date of Next Testing: 2028-08-08 10:22:16  
Product Name: **Manganese dioxide**  
CAS Number: 1313-13-9  
Specifications & Purity: 99% metals basis  
Lot #: G2431359  
SKU #: **M118110**  
Version: **0**  
Analysis #: **365723**

Parameter	Limit Values	Result
Total Metallic Impuritie	0-10000 (ppm)	733.00 ppm
Titration by KMNO4 (% Mn)	62.6-65.1 (%)	64.61%
Purity(Based On Trace Metals Analysis)	99-100 (%)	99.93%
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