



CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek. Certificate

Number. 2317548

Catalogue Number 20319 Lot Number A0472994

Description Manganese(IV) oxide,88%,electrolytically precipitated, active

CAS Number 1313-13-9
Quality Test/Release Date 28/May/2025
Suggested retest date 28/May/2028

Country of Origin UNITED STATES OF AMERICA

Declaration of Origin synthetic

BSE/TSE Not directly derived from or manufactured with any animal byproducts in any way

(Including but not limited to fermentation or nutrient broth, catalysts, enzymes).

Result Name	Units	Specifications	Test Value
Appearance (Color)		Black	Black
Appearance (Form)		Powder	Powder
Titration Iodometric	%	>=83 (on dried substance)	94 (on dried substance)
Loss on drying	%	=<3.5	2.6
Oxidation activity	%	>=60 yield	>=60 yield

Geert Torfs Supervisor, QC

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.