

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Manganese(II) carbonate - ≥99.9% trace metals basis



Product Number: 377449
Batch Number: MKBN7490V
Brand: ALDRICH
CAS Number: 598-62-9
MDL Number: MFCD00011116
Formula: CMnO3
Formula Weight: 114.95 g/mol
Quality Release Date: 01 FEB 2013

Test	Specification	Result
Appearance (Color) Light Brown	Conforms to Requirements	Light Brown
Appearance (Form)	Powder	Powder
X-Ray Diffraction	Conforms to Structure	Conforms
Complexometric EDTA % Manganese	46.1 - 49.5 %	46.9 %
Trace Metal Analysis	≤ 1000.0 ppm	432.9 ppm
Aluminum (Al)		11.5 ppm
Barium (Ba)		4.5 ppm
Calcium (Ca)		39.0 ppm
Chromium (Cr)		30.1 ppm
Cobalt (Co)		16.3 ppm
Copper (Cu)		1.2 ppm
Iron (Fe)		180.8 ppm
Lead (Pb)		41.9 ppm
Magnesium (Mg)		5.6 ppm
Nickel (Ni)		43.0 ppm
Potassium (K)		21.4 ppm
Sodium (Na)		6.7 ppm
Titanium (Ti)		0.4 ppm
Vanadium (V)		30.5 ppm
Purity > = 99.9% Based on Trace Metals Analysis	Meets Requirements	Meets Requirements

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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Jamie Gleason, Manager
Quality Control
Milwaukee, Wisconsin US

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