

# Certificate of Analysis

Product Name:

Nickel(II) oxide - 99.99% trace metals basis

# NiO

**Product Number:** 203882  
**Batch Number:** MKCX8662  
**Brand:** ALDRICH  
**CAS Number:** 1313-99-1  
**MDL Number:** MFCD00011145  
**Formula:** NiO  
**Formula Weight:** 74.69 g/mol  
**Quality Release Date:** 21 MAY 2025

Test	Specification	Result
Appearance (Color)	Light Green to Dark Green	Dark Green
Appearance (Form)	Powder or Chunks	Powder
Titration with EDTA % Ni	77.4 - 79.8 %	77.7 %
X-Ray Diffraction	Conforms to Structure	Conforms
Purity 99.99% Based On Trace Metals Analysis	Meets Requirements	Meets Requirements
Trace Metal Analysis	≤ 150.0 ppm	100.0 ppm
Silver (Ag)		2.4 ppm
Aluminum (Al)		1.2 ppm
Barium (Ba)		0.1 ppm
Calcium (Ca)		4.0 ppm
Cadmium (Cd)		4.1 ppm
Cobalt (Co)		5.2 ppm
Chromium (Cr)		8.4 ppm
Iron (Fe)		40.8 ppm
Magnesium (Mg)		0.1 ppm
Manganese (Mn)		0.7 ppm
Molybdenum (Mo)		2.2 ppm
Palladium (Pd)		2.9 ppm
Antimony (Sb)		19.2 ppm
Titanium (Ti)		0.3 ppm
Vanadium (V)		1.0 ppm
Zinc (Zn)		7.5 ppm

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](http://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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Larry Coers, Director  
Quality Control  
Milwaukee, WI US

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