

Certificate of Analysis

Product Name:

Nickel(II) chloride hydrate - 99.95% trace metals basis

Product Number: 364304
Batch Number: MKCX8483
Brand: ALDRICH
CAS Number: 69098-15-3
MDL Number: MFCD00149808
Formula: $\text{Cl}_2\text{Ni} \cdot x\text{H}_2\text{O}$
Formula Weight: 129.60 g/mol
Quality Release Date: 12 MAY 2025



Test	Specification	Result
Appearance (Color)	Green	Green
Appearance (Form)	Powder or Crystals or Solid or Chunks	Chunk(s)
Titration with EDTA	$\leq 42.3 \%$	26.0 %
Ni		
ICP Major Analysis	Confirmed	Conforms
Confirms Nickel Component		
Purity	Meets Requirements	Meets Requirements
99.95% Based On Trace Metals Analysis		
Trace Metal Analysis	$\leq 550.0 \text{ ppm}$	195.2 ppm
Silver (Ag)		0.6 ppm
Arsenic (As)		1.5 ppm
Boron (B)		1.4 ppm
Barium (Ba)		0.2 ppm
Beryllium (Be)		$< 0.1 \text{ ppm}$
Cadmium (Cd)		1.4 ppm
Cobalt (Co)		2.5 ppm
Chromium (Cr)		1.4 ppm
Iron (Fe)		3.5 ppm
Magnesium (Mg)		10.7 ppm
Manganese (Mn)		0.5 ppm
Molybdenum (Mo)		0.6 ppm
Sodium (Na)		83.2 ppm
Lead (Pb)		1.2 ppm
Palladium (Pd)		3.0 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. 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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Test	Specification	Result
Platinum (Pt)		57.2 ppm
Antimony (Sb)		13.3 ppm
Tin (Sn)		3.0 ppm
Titanium (Ti)		0.1 ppm
Vanadium (V)		0.4 ppm
Tungsten (W)		4.6 ppm
Zinc (Zn)		5.0 ppm



Larry Coers, Director
Quality Control
Milwaukee, WI US

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