

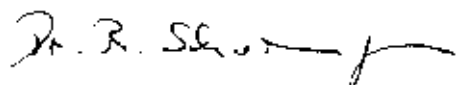
## Certificate of Analysis

Product Name:

Nickel(II) sulfate hexa-/ heptahydrate - DIN 50970 H,  $\geq 20.6\%$  Ni and Co basis

Product Number: 13635  
Batch Number: BCCG2456  
Brand: ALDRICH  
CAS Number: 15244-37-8  
Formula:  $\text{NiO}_4\text{S} \cdot x\text{H}_2\text{O}$   
Formula Weight: 154,76 g/mol  
Quality Release Date: 03 AUG 2021  
Date Retested: 11 APR 2025  
Recommended Retest Date: DEC 2028

Test	Specification	Result
Appearance (Form)	Powder or Crystals	Crystals
Titration with EDTA	$\geq 20.6\%$	21.2 %
pH	$\geq 3.5$	4.2
20 C, 20 % in H <sub>2</sub> O		
Miscellaneous Assay	Corresponds to Requirements	Corresponds
Insoluble in H <sub>2</sub> SO <sub>4</sub> $\leq 0.05\%$		
Metal Trace Analysis (ICP)	Corresponds to Requirements	Pass
Arsenic (As)	$\leq 10\text{ mg/kg}$	$< 10\text{ mg/kg}$
Cadmium (Cd)	$\leq 50\text{ mg/kg}$	$< 50\text{ mg/kg}$
Cobalt (Co)	$\leq 5000\text{ mg/kg}$	$< 5000\text{ mg/kg}$
Copper (Cu)	$\leq 20\text{ mg/kg}$	$< 20\text{ mg/kg}$
Iron (Fe)	$\leq 50\text{ mg/kg}$	$< 50\text{ mg/kg}$
Lead (Pb)	$\leq 20\text{ mg/kg}$	$< 20\text{ mg/kg}$
Zinc (Zn)	$\leq 50\text{ mg/kg}$	$< 50\text{ mg/kg}$
Appearance (Color)	Light Green to Very Dark Green and Faint	Dark Blue
Turquoise to Deep Blue-Green	Blue to Dark Blue and Blue-Green	



Dr. Reinhold Schwenninger  
Quality Assurance

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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Buchs, Switzerland CH

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