

# Certificate of Analysis

Product Name:

Sulfuric acid - puriss. p.a., for determination of Hg, ACS reagent, reag. ISO, reag. Ph. Eur., 95.0-97.0%

**Product Number:** 30743  
**Batch Number:** STBJ5839  
 Brand: SIGALD  
 CAS Number: 7664-93-9  
 Formula: H<sub>2</sub>O<sub>4</sub>S  
 Formula Weight: 98,08 g/mol  
 Quality Release Date: 31 JAN 2020  
 Date Retested: 22 NOV 2022  
 Recommended Retest Date: NOV 2025



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Color Test	≤ 10 APHA	10 APHA
Assay	95.0 - 97.0 %	96.2 %
Residue on Ignition	≤ 5 ppm	< 5 ppm
Reducing Substances	≤ 2 ppm	< 2 ppm
KMnO <sub>4</sub> Red. Matter (As SO <sub>2</sub> )		
Silver (Ag)	≤ 0.02 ppm	< 0.02 ppm
Aluminum (Al)	≤ 0.05 ppm	< 0.05 ppm
Arsenic (As)	≤ 0.01 ppm	< 0.01 ppm
Barium (Ba)	≤ 0.05 ppm	< 0.05 ppm
Beryllium (Be)	≤ 0.01 ppm	< 0.01 ppm
Bismuth (Bi)	≤ 0.05 ppm	< 0.05 ppm
Calcium (Ca)	≤ 0.2 ppm	< 0.2 ppm
Cadmium (Cd)	≤ 0.02 ppm	< 0.02 ppm
Cobalt (Co)	≤ 0.01 ppm	< 0.01 ppm
Chromium (Cr)	≤ 0.05 ppm	< 0.05 ppm
Copper (Cu)	≤ 0.01 ppm	< 0.01 ppm
Iron (Fe)	≤ 0.1 ppm	< 0.1 ppm
Germanium (Ge)	≤ 0.05 ppm	< 0.05 ppm
Mercury (Hg)	≤ 0.005 ppm	< 0.005 ppm
Potassium (K)	≤ 0.1 ppm	< 0.1 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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Test	Specification	Result
Lithium (Li)	≤ 0.01 ppm	< 0.01 ppm
Magnesium (Mg)	≤ 0.05 ppm	< 0.05 ppm
Manganese (Mn)	≤ 0.01 ppm	< 0.01 ppm
Molybdenum (Mo)	≤ 0.02 ppm	< 0.02 ppm
Sodium (Na)	≤ 0.5 ppm	< 0.5 ppm
Nickel (Ni)	≤ 0.02 ppm	< 0.02 ppm
Lead (Pb)	≤ 0.02 ppm	< 0.02 ppm
Strontium (Sr)	≤ 0.02 ppm	< 0.02 ppm
Titanium (Ti)	≤ 0.1 ppm	< 0.1 ppm
Thallium (Tl)	≤ 0.05 ppm	< 0.05 ppm
Vanadium (V)	≤ 0.01 ppm	< 0.01 ppm
Zinc (Zn)	≤ 0.05 ppm	< 0.05 ppm
Zirconium (Zr)	≤ 0.01 ppm	< 0.01 ppm
Ammonium	≤ 2 ppm	< 2 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO <sub>3</sub> )	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO <sub>4</sub> )	≤ 0.5 ppm	< 0.5 ppm



Dr. Christian Matheis  
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Steinheim, Germany DE

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