

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Gold(III) chloride hydrate - 99.995% trace metals basis

Product Number: 254169
Batch Number: MKCM0914
 Brand: ALDRICH
 CAS Number: 27988-77-8
 MDL Number: MFCD00011322
 Formula: $\text{HAuCl}_4 \cdot x\text{H}_2\text{O}$
 Formula Weight: 339.79 g/mol
 Quality Release Date: 23 MAR 2020

 $\text{HAuCl}_4 \cdot x\text{H}_2\text{O}$

Test	Specification	Result
Appearance (Color) Yellow-Orange to Orange	Conforms to Requirements	Orange
Appearance (Form)	Crystals or Crystals with Chunks	Crystals
Gravimetric Analysis % Gold (After Reduction With Sulfite)	47.5 - 51.5 %	47.6 %
ICP Major Analysis Confirms Gold Component	Confirmed	Confirmed
Purity 99.995% Based On Trace Metals Analysis	Meets Requirements	Meets Requirements
Trace Metal Analysis	≤ 55.0 ppm	9.5 ppm
Silver (Ag)		4.7 ppm
Aluminum (Al)		0.1 ppm
Calcium (Ca)		0.5 ppm
Cadmium (Cd)		0.4 ppm
Copper (Cu)		0.8 ppm
Iron (Fe)		0.3 ppm
Magnesium (Mg)		0.1 ppm
Manganese (Mn)		0.1 ppm
Sodium (Na)		0.9 ppm
Palladium (Pd)		1.5 ppm
Titanium (Ti)		0.1 ppm
Zinc (Zn)		0.1 ppm

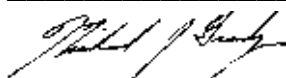
Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser 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.

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Certificate of Analysis

Product Number: 254169
Batch Number: MKCM0914



Michael Grady, Manager
Quality Control
Milwaukee, WI US

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.