

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-12-04 11:02:18  
 Date of Next Testing: 2027-12-04 11:02:18  
 Product Name: **Acetic acid (glacial) 100%**  
 CAS Number: 64-19-7  
 Specifications & Purity: Anhydrous Grade, Moligand™, Ph.Eur., Premium-Grade Reagents, Suitable for Analysis, ACS  
 Lot #: K2427335  
 SKU #: **A433222**  
 Version: **1**  
**Analysis #:** **443114**  
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Assay(alkalimetric)	99.8-102.5 (%)	99.99000 %
Chloride (Cl-)	0-0.4 (ppm)	0.20000 ppm
Phosphate(PO4)	0-0.4 (ppm)	0.13000 ppm
Heavy metals(as Pb)	0-0.5 (ppm)	0.00000 ppm
Acetaldehyde	0-2 (ppm)	0.50000 ppm
Acetic anhydride	0-100 (ppm)	50.00000 ppm
Titration Base	0-0.004 (meq/g)	0.00010 meq/g
Solidification temperature	≥16.3 (°C)	16.50000 °C
Sulfate(SO42-)	0-0.4 (ppm)	0.00000 ppm
Silver(Ag)	0-0.005 (ppm)	0.00000 ppm
Aluminum(Al)	0-0.02 (ppm)	0.01000 ppm
(As)Arsenic	0-0.01 (ppm)	0.00000 ppm
Aurum(Au)	0-0.01 (ppm)	0.00000 ppm
Boron(B)	0-0.1 (ppm)	0.03000 ppm
Barium(Ba)	0-0.01 (ppm)	0.00200 ppm
Beryllium(Be)	0-0.005 (ppm)	0.00000 ppm
Bismuth(Bi)	0-0.05 (ppm)	0.00100 ppm
Calcium(Ca)	0-0.1 (ppm)	0.01000 ppm
Cadmium(Cd)	0-0.02 (ppm)	0.00000 ppm
Cobalt(Co)	0-0.01 (ppm)	0.00000 ppm
Chromium(Cr)	0-0.02 (ppm)	0.00400 ppm
Copper(Cu)	0-0.01 (ppm)	0.00500 ppm
Iron(Fe)	0-0.05 (ppm)	0.01000 ppm
Gallium(Ga)	0-0.05 (ppm)	0.00300 ppm

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Germanium (Ge)	0-0.02 (ppm)	0.00000 ppm
Mercury(Hg)	0-0.005 (ppm)	0.00000 ppm
Indium(In)	0-0.05 (ppm)	0.00000 ppm
Potassium(K)	0-0.1 (ppm)	0.05000 ppm
Lithium(Li)	0-0.01 (ppm)	0.00000 ppm
Magnesium(Mg)	0-0.05 (ppm)	0.00000 ppm
Manganese(Mn)	0-0.01 (ppm)	0.00000 ppm
Molybdenum(Mo)	0-0.01 (ppm)	0.00000 ppm
Sodium(Na)	0-0.2 (ppm)	0.01600 ppm
Nickel(Ni)	0-0.02 (ppm)	0.00000 ppm
Lead(Pb)	0-0.01 (ppm)	0.00000 ppm
Platinum(Pt)	0-0.1 (ppm)	0.05000 ppm
Stannum(Sn)	0-0.05 (ppm)	0.02000 ppm
Strontium(Sr)	0-0.01 (ppm)	0.00100 ppm
Titanium(Ti)	0-0.05 (ppm)	0.00000 ppm
Vanadium(V)	0-0.01 (ppm)	0.00000 ppm
Thallium(Tl)	0-0.02 (ppm)	0.00300 ppm
Zinc(Zn)	0-0.03 (ppm)	0.01500 ppm
Zirconium(Zr)	0-0.05 (ppm)	0.00000 ppm
Evaporation Residue	0-5 (ppm)	0.10000 ppm
Water by Karl Fischer	0-0.2 (%)	0.03700 %
Substances reducing potassium permanganate	0-20 (ppm)	2.50000 ppm
Appearance(A433222)	Colorless clear liquid	Colorless clear liquid
Dilution Test	Pass	Pass
Infrared spectrum	conforms to structure	Conforms to Structure
Substances reducing potassium dichromate	Passes test	Passes test



 John Su  
 QA & QC Manager