

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-05-06 17:23:29

Date of Next Testing: 2028-05-05 17:23:29

Product Name: **Ala-1511198 Semiconductor cleaning agent**

CAS Number: 64-17-5

Specifications & Purity: semiconductor grade, Total metal impurities ≤ 2 ppm , Particles $\geq 0.5 \mu\text{m}$: ≤ 25 per mL

Lot #: D2614080

SKU #: **A1511198**

Version **1**

Analysis #: **692878**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(GC)	99.8-100 (%)	99.91000 %
Purity(Based On Trace Metals Analysis)	99.999-100 (%)	99.99900 %
Refractive index n _{20/D}	1.36-1.362	1.36110
UV Absorbance 225nm	0-0.26	0.25000
Evaporation Residue	0-5 (ppm)	0.25300 ppm
Number of particles $\geq 0.5 \mu\text{m}$	0-25 (particles/ml)	8.00000 particles/ml
Aluminium(Al)	0-1 (ppb)	0.25000 ppb
Arsenic(As)	0-1 (ppb)	0.14000 ppb
Aurum(Au)	0-1 (ppb)	0.09000 ppb
Silver(Ag)	0-1 (ppb)	0.12000 ppb
Barium(Ba)	0-1 (ppb)	0.06000 ppb
Boron(B)	0-1 (ppb)	0.07000 ppb
Cadmium(Cd)	0-1 (ppb)	0.04000 ppb
Calcium(Ca)	0-1 (ppb)	0.25000 ppb
Chromium(Cr)	0-1 (ppb)	0.07000 ppb
Cobalt(Co)	0-1 (ppb)	0.11000 ppb
Copper(Cu)	0-1 (ppb)	0.02000 ppb
Gallium(Ga)	0-1 (ppb)	0.03000 ppb
Iron(Fe)	0-1 (ppb)	0.14000 ppb
Lithium(Li)	0-1 (ppb)	0.11000 ppb
Magnesium(Mg)	0-1 (ppb)	0.14000 ppb
Manganese(Mn)	0-1 (ppb)	0.02000 ppb
Nickel(Ni)	0-1 (ppb)	0.02000 ppb
Lead(Pb)	0-1 (ppb)	0.03000 ppb

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Parameter	Limit Values	Result
Sodium(Na)	0-1 (ppb)	0.22000 ppb
Potassium(K)	0-1 (ppb)	0.35000 ppb
Stannum(Sn)	0-1 (ppb)	0.14000 ppb
Titanium(Ti)	0-1 (ppb)	0.03000 ppb
Zinc(Zn)	0-1 (ppb)	0.12000 ppb
Appearance(A1511198)	Colorless Liquid	Colorless liquid

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager