

## Certificate of Analysis

Date of Testing: 2022-10-24 13:04:49  
 Date of Next Testing: 2026-10-23 13:04:49  
 Product Name: **1-Thioglycerol**  
 CAS Number: 96-27-5  
 Specifications & Purity: Matrix for FAB-MS and liquid SIMS, ≥98.5%(GC)  
 Lot #: J2220048  
 SKU #: **T109441**  
**Analysis:** **148334**  
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Density (20°C)	1.246-1.251	1.25
Refractive index n <sub>20</sub> /D	1.525-1.53	1.53
Potassium(K)	0-20 (ppm)	11.50 ppm
Cadmium(Cd)	0-1 (ppm)	0.38 ppm
Calcium(Ca)	0-10 (ppm)	4.90 ppm
Manganese(Mn)	0-1 (ppm)	0.37 ppm
Zinc(Zn)	0-1 (ppm)	0.51 ppm
Nickel(Ni)	0-1 (ppm)	0.38 ppm
Chromium(Cr)	0-1 (ppm)	0.48 ppm
Purity(GC)	98.5-100 (%)	99.64 %
Cobalt(Co)	0-1 (ppm)	0.47 ppm
(Pb)Lead	0-1 (ppm)	0.34 ppm
Sodium(Na)	0-20 (ppm)	14.10 ppm
Iron(Fe)	0-1 (ppm)	0.47 ppm
Appearance (T109441)	Colorless to light yellow liquid	Colorless to light yellow liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



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ALADDIN SCIENTIFIC CORPORATION

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

John Su  
QA & QC Manager