

## Certificate of Analysis

Date of Testing: 2023-05-29 11:21:38  
 Date of Next Testing: 2025-05-18 11:21:38  
 Product Name: **Dimethyl sulfoxide**  
 CAS Number: 67-68-5  
 Specifications & Purity: ACS, ≥99.9%  
 Lot #: E23251034  
 SKU #: **D103281**  
**Analysis:** **217656**  
 Storage Temperature: Argon charged, Desiccated

Parameter	Limit Values	Result
Purity(GC)	99.9-100 (%)	99.91 %
Evaporation Residue	0-0.01 (%)	0.00 %
Titration Acid	0-0.001 (eq/kg)	0.00 eq/kg
Water by Karl Fischer	0-0.1 (%)	0.01 %
Refractive index n <sub>20</sub> /D	1.478-1.479	1.48
Density (20°C)	1.095-1.105	1.10
Melting point	17.0-18.3 (°C)	17.02000 °C
Appearance (D103281)	Colorless liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in water(10mg/ml, Colorless clear liquid)	Pass	Pass



John Su  
QA & QC Manager