

## Certificate of Analysis

Date of Testing: 2024-11-16 08:42:41

Date of Next Testing: 2026-11-06 08:42:41

Product Name: **Dimethyl sulfoxide(DMSO)**

CAS Number: 67-68-5

Specifications & Purity: ACS, ≥99.9%

Lot #: K2407298

SKU #: **D103281**

Version: **2**

Analysis #: **428099**

Storage Temperature: Argon charged, Desiccated

| Parameter                                            | Limit Values          | Result                |
|------------------------------------------------------|-----------------------|-----------------------|
| Purity(GC)                                           | 99.9-100 (%)          | 99.90 %               |
| Evaporation Residue                                  | 0-0.01 (%)            | 0.00 %                |
| Water by Karl Fischer                                | 0-0.1 (%)             | 0.02 %                |
| Refractive index n <sub>20</sub> /D                  | 1.478-1.479           | 1.48                  |
| Density (20°C)                                       | 1.095-1.105           | 1.10                  |
| Titration Acid                                       | 0-0.001 (eq/kg)       | 0.00 eq/kg            |
| Melting point                                        | 17.0-18.3 (°C)        | 17.20000 °C           |
| Appearance (D103281)                                 | Colorless liquid      | Colorless liquid      |
| Solubility in water(10mg/ml, Colorless clear liquid) | Pass                  | Pass                  |
| Infrared spectrum                                    | Conforms to Structure | Conforms to Structure |



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