

## Certificate of Analysis

Date of Testing: 2022-10-21 19:11:54  
Date of Next Testing: 2024-10-10 19:11:54  
Product Name: **Dimethyl sulfoxide**  
CAS Number: 67-68-5  
Specifications & Purity: ACS, ≥99.9%  
Lot #: J2219089  
SKU #: **D103281**  
**Analysis:** **142739**  
Storage Temperature: Argon charged, Desiccated

| Parameter                           | Limit Values          | Result                |
|-------------------------------------|-----------------------|-----------------------|
| Purity(GC)                          | 99.9-100 (%)          | 99.92 %               |
| 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 %                |
| Density (20°C)                      | 1.095-1.105           | 1.10                  |
| Refractive index n <sub>20</sub> /D | 1.478-1.479           | 1.48                  |
| Melting point                       | 17.0-18.3 (°C)        | 18.28000 °C           |
| Appearance (D103281)                | Colorless liquid      | Colorless liquid      |
| Infrared spectrum                   | Conforms to Structure | Conforms to Structure |



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