

Certificate of Analysis

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|--------------------------|---------------------------|
| Date of Testing: | 2024-07-16 17:46:08 |
| Date of Next Testing: | 2028-07-15 17:46:08 |
| Product Name: | Dimethyl sulfoxide |
| CAS Number: | 67-68-5 |
| Specifications & Purity: | for HPLC, $\geq 99.8\%$ |
| Lot #: | G2415095 |
| SKU # | D103273 |
| Version | 2 |
| Analysis #: | 381758 |
| Storage Temperature: | Argon charged |

| Parameter | Limit Values | Result |
|---|---|---|
| Purity(GC) | 99.8-100 (%) | 99.90% |
| UV Absorbance 270nm | 0-0.7 | 0.32 |
| Refractive index n ₂₀ /D | 1.477-1.48 | 1.48 |
| Density (20°C) | 1.099-1.103 | 1.10 |
| UV Absorbance 300nm | 0-0.1 | 0.06 |
| Evaporation Residue | 0-0.002 (%) | 0.00% |
| UV Absorbance 280nm | 0-0.3 | 0.14 |
| Water by Karl Fischer | 0-0.2 (%) | 0.01% |
| UV Absorbance 350nm | 0-0.01 | 0.00 |
| Appearance (D103273) | Colorless liquid or white lump or crystal | Colorless liquid or white lump or crystal |
| Solubility in H ₂ O , 1%:100ml,clear colorless | Pass | Pass |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |



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

John Su
QA & QC Manager