

Certificate of Analysis

Product: Dimethylformamide, n,n- (DMF)

Item Number: DMFHPLC

Grade: HPLC

Lot Number: 5000173/1.1

Manufacture Date: 10/10/2022

Expiration Date: 10/09/2027

Country of Origin: United States

| Tested Property | Specification | Analysis |
|---------------------------|---|-----------------|
| Description | Clear colorless liquid free of suspended matter | Passes the test |
| Assay by GC-FID | Min 99.8% | 99.97 |
| Color (APHA) | Max 10 | 5 |
| Residue after evaporation | Max 5 ppm | 2 |
| Water by KF coulmetry | Max 0.05% | 0.02 |
| Optical Absorbance @ | | |
| 270 nm | Max 1.0 AU | 0.37 |
| 275 nm | Max 0.3 AU | 0.12 |
| 295 nm | Max 0.1 AU | 0.03 |
| 310 nm | Max 0.05 AU | 0.02 |
| 340 nm | Max 0.01 AU | 0.005 |
| 400 nm | Max 0.01 AU | 0.001 |

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