

## Certificate of Analysis

Date of Testing: 2023-03-15 16:52:22  
Date of Next Testing: 2027-03-14 16:52:22  
Product Name: **N,N-Dimethylformamide**  
CAS Number: 68-12-2  
Specifications & Purity: Analytical Reagent,99.5%  
Lot #: C2314423  
SKU #: **D111999**  
**Analysis:** **199153**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
alkalinity(as OH-)	0-1 ( $\mu\text{mol/g}$ )	0.00000 $\mu\text{mol/g}$
Purity(GC)	99.5-100 (%)	99.96600 %
Color test (APHA)	0-10	10.00000
Refractive index n <sub>20</sub> /D	1.428-1.432	1.43060
Water by Karl Fischer	0-0.1 (%)	0.00590 %
Evaporation Residue	0-0.005 (%)	0.00000 %
Density	0.945-0.950(g/ml)	0.94820 g/ml
Acidity(as H+)	0-1 ( $\mu\text{mol/g}$ )	0.00000 $\mu\text{mol/g}$
Iron(Fe)	0-0.0005 (%)	0.00001 %
Appearance (D111999)	Colorless Liquid	Colorless liquid



John Su  
QA & QC Manager