

## Certificate of Analysis

Date of Testing: 2023-01-11 15:59:00  
Date of Next Testing: 2027-01-10 15:59:00  
Product Name: **N,N-Dimethylformamide**  
CAS Number: 68-12-2  
Specifications & Purity: Analytical Reagent,99.5%  
Lot #: L2214629  
SKU #: **D111999**  
**Analysis: 174360**  
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 (%)	99.58200 %
Color test (APHA)	0-10	10.00000
Refractive index n <sub>20</sub> /D	1.428-1.432	1.43080
Water by Karl Fischer	0-0.1 (%)	0.00950 %
Evaporation Residue	0-0.005 (%)	0.00000 %
Density	0.945-0.950(g/ml)	0.94870 g/ml
Acidity(as H <sup>+</sup> )	0-1 ( $\mu\text{mol/g}$ )	0.00000 $\mu\text{mol/g}$
Iron(Fe)	0-0.0005 (%)	0.00002 %
Appearance (D111999)	Colorless Liquid	Colorless liquid



John Su  
QA & QC Manager