

Certificate of Analysis

Date of Testing: 2023-04-09 14:13:45

Date of Next Testing: 2027-04-08 14:13:45

Product Name: **N,N'-Dimethyl-1,3-propanediamine**

CAS Number: 111-33-1

Specifications & Purity: >97.0%(GC)

Lot #: D2303334

SKU #: **D124206**

Analysis: **047594**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(GC)	97-100 (%)	99.06 %
Purity(NonaqueousTitration)	96.5-103.5 (%)	98.52 %
Refractive index n ₂₀ /D	1.437-1.441	1.44
Density (20°C)	0.829-0.833	0.83
Appearance (D124206)	Colorless to Yellow Liquid	Colorless to Yellow Liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager