

Certificate of Analysis

Date of Testing: 2022-12-15 11:35:52

Date of Next Testing: 2026-12-14 11:35:52

Product Name: **(S)-(+)-1-Methyl-3-pyrrolidinol**

CAS Number: 104641-59-0

Specifications & Purity: $\geq 98\%$

Lot #: L2209589

SKU #: **M121670**

Version: **1**

Analysis #: **149610**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Refractive index $n_{20/D}$	1.463-1.467	1.46
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in CHCL}_3)$	4-8 ($^{\circ}$)	7.78 $^{\circ}$
Purity(Nonaqueous Titration)	98-100 (%)	99.36 %
Purity(GC)	98-100 (%)	99.21 %
Density (20 $^{\circ}$ C)	0.981-0.986	0.98
Appearance (M121670)	colorless to yellow to brown liquid	colorless to yellow to brown liquid
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager