

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-15 11:24:01
 Date of Next Testing: 2026-12-14 11:24:01
 Product Name: **(S)-(+)-1-Methyl-3-pyrrolidinol**
 CAS Number: 104641-59-0
 Specifications & Purity: $\geq 98\%$
 Lot #: L2209496
 SKU #: **M121670**
 Version: **1**
 Analysis #: **149610**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Refractive index n _{20/D}	1.463-1.467	1.46450
Specific Rotation [α] _{20/D} (c=1 in CHCL ₃)	4-8 (°)	7.78000 °
Purity(Nonaqueous Titration)	98-100 (%)	99.36200 %
Purity(GC)	98-100 (%)	99.21400 %
Density (20°C)	0.981-0.986	0.98300
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