

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-06-01 15:33:01

Date of Next Testing: 2027-05-31 15:33:01

Product Name: **(S)-1-Benzyl-3-aminopyrrolidine**

CAS Number: 114715-38-7

Specifications & Purity: $\geq 99\%$

Lot #: E2326255

SKU #: **B121661**

Version: **1**

Analysis #: **234507**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Refractive index n ₂₀ /D	1.543-1.545	1.54410
Specific Rotation [α] ₂₀ /D(c=5 in H ₂ O)	9.3-9.7 (°)	9.34500°
Nitrogen by Elemental Analysis	15.3-16.5 (%)	15.31000%
Carbon by Elemental Analysis	72.3-77.6 (%)	72.31400%
Purity(Nonaqueous Titration)	99-100 (%)	99.20100%
Purity(GC)	99-100 (%)	99.57200%
Density (20°C)	1.015-1.019	1.01542
Appearance (B121661)	Colorless to tan liquid	Colorless to tan liquid
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager