

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-31 15:45:54

Date of Next Testing: 2027-05-30 15:45:54

Product Name: **1-Butyl-2-pyrrolidone**

CAS Number: 3470-98-2

Specifications & Purity: >98.0%(GC)

Lot #: E2326181

SKU #: **B124554**

Analysis: **147866**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	99.13 %
Refractive index n ₂₀ /D	1.464-1.466	1.47
Density (20°C)	0.959-0.963	0.96
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Appearance(B124554)	Colorless to Light red to Green clear liquid	Colorless to Light red to Green clear liquid

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager