

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-11-15 16:52:25
 Date of Next Testing: 2027-11-14 16:52:25
 Product Name: **2-Pyrrolidinone**
 CAS Number: 616-45-5
 Specifications & Purity: $\geq 99\%$
 Lot #: K2306328
 SKU #: **P112692**
 Version: **1**
 Analysis #: **290324**
 Storage Temperature: Protected from light, Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(GC)	99-100 (%)	99.85800 %
Refractive index n _{20/D}	1.482-1.488	1.48800
Density (25°C)	1.103-1.121	1.11500
Water by Karl Fischer	0-0.2 (%)	0.15200 %
Appearance (P112692)	colorless to light yellow liquid or semisolid	colorless to light yellow liquid or semisolid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager