

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-12-07 14:53:53

Date of Next Testing: 2027-12-06 14:53:53

Product Name: **4-Acetylmorpholine**

CAS Number: 1696-20-4

Specifications & Purity: 98%

Lot #: L2305037

SKU #: **A112972**

Analysis: **302010**

| Parameter                           | Limit Values                     | Result                           |
|-------------------------------------|----------------------------------|----------------------------------|
| Purity(GC)                          | 98-100 (%)                       | 98.80 %                          |
| Refractive index n <sub>20</sub> /D | 1.482-1.485                      | 1.48                             |
| Density (20°C)                      | 1.115-1.118                      | 1.12                             |
| Appearance (A112972)                | Colorless to light yellow liquid | Colorless to light yellow liquid |
| Infrared spectrum                   | Conforms to Structure            | Conforms to Structure            |

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

John Su  
QA & QC Manager