

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

|                          |                     |
|--------------------------|---------------------|
| Date of Testing:         | 2022-08-19 11:24:15 |
| Date of Next Testing:    | 2026-08-18 11:24:15 |
| Product Name:            | <b>2-Undecanone</b> |
| CAS Number:              | 112-12-9            |
| Specifications & Purity: | ≥99%                |
| Lot #:                   | H2212545            |
| SKU #                    | <b>U109754</b>      |
| Version                  | <b>1</b>            |
| <b>Analysis #:</b>       | <b>119642</b>       |
| Storage Temperature:     | Room temperature    |

| Parameter                           | Limit Values          | Result                |
|-------------------------------------|-----------------------|-----------------------|
| Acid Value                          | 0-1 (mgKOH/g)         | 0.42000 mgKOH/g       |
| Crystallization point               | 11-14 (°C)            | 12.50000 °C           |
| Density (20°C)                      | 0.823-0.831           | 0.82700               |
| Purity(GC)                          | 99-100 (%)            | 99.79400 %            |
| Refractive index n <sub>20</sub> /D | 1.428-1.432           | 1.42940               |
| Appearance (U109754)                | Colorless Liquid      | Colorless liquid      |
| NMR Spectrum 1H                     | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager