

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-04-24 17:40:05

Date of Next Testing: 2030-04-23 17:40:05

Product Name: **1,3-Propanediamine**

CAS Number: 109-76-2

Specifications & Purity:  $\geq 98\%$

Lot #: D2621621

SKU #: **P103898**

Version: **0**

Analysis #: **687979**

Storage Temperature: Protected from light, Room temperature, Argon charged, Desiccated

| Parameter                          | Limit Values          | Result                |
|------------------------------------|-----------------------|-----------------------|
| Density (20°C)                     | 0.886-0.89            | 0.88900               |
| Refractive index n <sub>20/D</sub> | 1.456-1.46            | 1.45820               |
| Purity(GC)                         | 98-100 (%)            | 99.18700 %            |
| Appearance (P103898)               | Colorless Liquid      | Colorless liquid      |
| Infrared spectrum                  | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager