

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-12-15 16:59:48

Date of Next Testing: 2027-12-14 16:59:48

Product Name: **1,2-Propanediamine**

CAS Number: 78-90-0

Specifications & Purity:  $\geq 99\%$

Lot #: L2311175

SKU #: **P103897**

Version: **0**

Analysis #: **300407**

Storage Temperature: Room temperature, Argon charged

| Parameter                          | Limit Values          | Result                |
|------------------------------------|-----------------------|-----------------------|
| Density (20°C)                     | 0.864-0.867           | 0.86500               |
| Purity(GC)                         | 99-100 (%)            | 99.69300 %            |
| Refractive index n <sub>20/D</sub> | 1.445-1.447           | 1.44610               |
| Appearance (P103897)               | Colorless Liquid      | Colorless liquid      |
| Infrared spectrum                  | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager