

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-05-30 11:31:27  
Date of Next Testing: 2027-05-29 11:31:27  
Product Name: **Tris(2-aminoethyl)amine**  
CAS Number: 4097-89-6  
Specifications & Purity: 96%  
Lot #: E2325800  
SKU #: **T106669**  
**Analysis:** **223534**  
Storage Temperature: Argon charged

| Parameter                           | Limit Values                               | Result                                     |
|-------------------------------------|--|--|
| Density (20°C)                      | 0.976-0.982                                | 0.98                                       |
| Purity(GC)                          | 96-100 (%)                                 | 96.98 %                                    |
| Purity(Neutralization titration)    | 95.5-104.5 (%)                             | 99.87 %                                    |
| Refractive index n <sub>20</sub> /D | 1.495-1.499                                | 1.50                                       |
| Appearance (T106669)                | Colorless to Yellow to Yellow-Green Liquid | Colorless to Yellow to Yellow-Green Liquid |
| Infrared spectrum                   | Conforms to Structure                      | Conforms to Structure                      |



John Su  
QA & QC Manager