

## Certificate of Analysis

Date of Testing: 2022-06-23 17:19:02

Date of Next Testing: 2026-06-22 17:19:02

Product Name: **Ethanolamine**

CAS Number: 141-43-5

Specifications & Purity: Analytical Reagent, 99%

Lot #: F2218505

SKU #: **E103802**

Analysis: **078755**

| Parameter                           | Limit Values          | Result                |
|-------------------------------------|-----------------------|-----------------------|
| Purity(GC)                          | 99-100 (%)            | 99.52 %               |
| Density (20°C)                      | 1.015-1.019           | 1.02                  |
| Refractive index n <sub>20</sub> /D | 1.452-1.457           | 1.45                  |
| Appearance (E103802)                | Colorless liquid      | Colorless liquid      |
| Infrared spectrum                   | Conforms to Structure | Conforms to Structure |

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

John Su  
QA & QC Manager