

## Certificate of Analysis

Date of Testing: 2022-11-24 16:03:10  
Date of Next Testing: 2026-11-23 16:03:10  
Product Name: **Ethanolamine**  
CAS Number: 141-43-5  
Specifications & Purity: ACS, ≥99.0%  
Lot #: K2219566  
SKU #: **E103810**  
Analysis: **159699**

Parameter	Limit Values	Result
Color test (APHA)	0-15	10.25
Iron(Fe)	0-5 (ppm)	3.26 ppm
Heavy metal (as Pb)	0-5 (ppm)	1.23 ppm
Water by Karl Fischer	0-0.3 (%)	0.21 %
Assay	99-100 (%)	99.65 %



John Su  
QA & QC Manager