

## Certificate of Analysis

Date of Testing: 2022-10-24 15:03:08  
Date of Next Testing: 2026-10-23 15:03:08  
Product Name: **Ethanolamine**  
CAS Number: 141-43-5  
Specifications & Purity: ACS, ≥99.0%  
Lot #: J2210454  
SKU #: **E103810**  
Analysis: **148343**

Parameter	Limit Values	Result
Color test (APHA)	0-15	10.00
Iron(Fe)	0-5 (ppm)	2.10 ppm
Heavy metal (as Pb)	0-5 (ppm)	0.50 ppm
Water by Karl Fischer	0-0.3 (%)	0.04 %
Assay	99-100 (%)	99.54 %



John Su  
QA & QC Manager