

## Certificate of Analysis

Date of Testing: 2022-06-25 15:05:23  
Date of Next Testing: 2026-06-24 15:05:23  
Product Name: **Ethanolamine**  
CAS Number: 141-43-5  
Specifications & Purity: ACS, ≥99.0%  
Lot #: F2221099  
SKU #: **E103810**  
Analysis: **106224**

Parameter	Limit Values	Result
Color test (APHA)	0-15	13.55
Iron(Fe)	0-5 (ppm)	4.12 ppm
Heavy metal (as Pb)	0-5 (ppm)	1.26 ppm
Water by Karl Fischer	0-0.3 (%)	0.12 %
Assay	99-100 (%)	99.70 %



John Su  
QA & QC Manager