

## Certificate of Analysis

Date of Testing: 2023-06-13 16:20:01  
Date of Next Testing: 2027-06-12 16:20:01  
Product Name: **Ethylenediamine Monohydrate**  
CAS Number: 6780-13-8  
Specifications & Purity: 98%  
Lot #: F2307249  
SKU #: **E112132**  
**Analysis:** **232110**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Density (20°C)	0.963-0.967	0.96
Purity(Neutralization titration)(calcd.on anh.substance)	97.5-102.5 (%)	100.10 %
Water by Karl Fischer	22-30 (%)	23.20 %
Refractive index n <sub>20</sub> /D	1.448-1.451	1.45
Appearance (E112132)	Colorless to Almost colorless clear liquid	Colorless to almost colorless clear liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager