

## Certificate of Analysis

Date of Testing: 2022-02-11 13:45:05  
Date of Next Testing: 2023-02-06 13:45:05  
Product Name: **N,N,N',N'-Tetramethylethylenediamine**  
CAS Number: 110-18-9  
Specifications & Purity: 99%  
Lot #: B2210382  
SKU #: **T105497**  
**Analysis:** **067589**  
Storage Temperature: Protected from light, Room temperature, Argon charged, Desiccated

Parameter	Limit Values	Result
Refractive index n <sub>20</sub> /D	1.416-1.419	1.42
Water by Karl Fischer	0-1 (%)	0.11 %
Density (20°C)	0.775-0.778	0.78
Purity(GC)	99-100 (%)	99.47 %
Appearance (T105497)	Colorless to light yellow liquid	Colorless to light yellow liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , Colorless Clear, C=5 g/50 ml	pass	Pass



John Su  
QA & QC Manager