

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-02-23 11:30:34  
 Date of Next Testing: 2028-02-22 11:30:34  
 Product Name: **N,N,N',N'-Tetramethyl-2-butene-1,4-diamine**  
 CAS Number: 4559-79-9  
 Specifications & Purity:  $\geq 97\%$ (GC)  
 Lot #: D2028147  
 SKU #: **N159028**  
 Version: **0**  
 Analysis #: **322877**  
 Storage Temperature: Room temperature, Argon charged

| Parameter            | Limit Values                               | Result                                     |
|----------------------|--------------------------------------------|--------------------------------------------|
| Purity(GC)           | 97-100 (%)                                 | 99.30000 %                                 |
| Appearance (N159028) | colorless to light orange to yellow liquid | colorless to light orange to yellow liquid |
| Proton NMR spectrum  | Conforms to Structure                      | Conforms to Structure                      |



John Su  
QA & QC Manager