

## Certificate of Analysis

Date of Testing: 2024-05-22 15:20:13

Date of Next Testing: 2028-05-21 15:20:13

Product Name: **N,N,N',N'-Tetrakis(2-hydroxypropyl)ethylenediamine**

CAS Number: 102-60-3

Specifications & Purity: 98%

Lot #: E2420418

SKU #: **T121820**

Version: **0**

**Analysis #:** **357018**

Storage Temperature: Argon charged

| Parameter                               | Limit Values                                         | Result                                               |
|-----------------------------------------|------------------------------------------------------|------------------------------------------------------|
| Refractive index n <sub>20</sub> /D     | 1.479-1.482                                          | 1.48                                                 |
| Purity(Titration by HClO <sub>4</sub> ) | 97.5-102.5 (%)                                       | 100.90 %                                             |
| Appearance (T121820)                    | Colorless to Yellow to Almost colorless clear liquid | Colorless to Yellow to Almost colorless clear liquid |
| Infrared spectrum                       | Conforms to Structure                                | Conforms to Structure                                |
| Proton NMR spectrum                     | Conforms to Structure                                | Conforms to Structure                                |



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