

## Certificate of Analysis

Date of Testing: 2025-06-07 15:14:24

Date of Next Testing: 2029-06-06 15:14:24

Product Name: **N,N,N',N'-Tetramethyl-p-phenylenediamine dihydrochloride(TMPD)**

CAS Number: 637-01-4

Specifications & Purity:  $\geq 98\%$

Lot #: E2520642

SKU #: **T106470**

Version: **0**

Analysis #: **434327**

Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

| Parameter                                                                             | Limit Values                      | Result                            |
|---------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|
| Purity(HPLC)                                                                          | 98-100 (%)                        | 99.18900 %                        |
| Purity(Nonaqueous Titration)                                                          | 97.5-102.5 (%)                    | 97.50 %                           |
| Appearance (T106470)                                                                  | Off-White to Grey to Brown Powder | Off-White to Grey to Brown Powder |
| Infrared spectrum                                                                     | Conforms to Structure             | Conforms to Structure             |
| Proton NMR spectrum                                                                   | Conforms to Structure             | Conforms to Structure             |
| Solubility in H <sub>2</sub> O , Colorless to Purple to Brown, Clear to Hazy, 50mg/ml | pass                              | Pass                              |



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