

## Certificate of Analysis

Date of Testing: 2025-02-22 16:12:11

Date of Next Testing: 2029-02-21 16:12:11

Product Name: **Tris(hydroxymethyl)aminomethane hydrochloride**

CAS Number: 1185-53-1

Specifications & Purity: Reagent grade, ≥99%

Lot #: B2513560

SKU #: **T105287**

Version: **0**

Analysis #: **464591**

Storage Temperature: Argon charged

| Parameter                                                           | Limit Values             | Result                   |
|---------------------------------------------------------------------|--------------------------|--------------------------|
| Purity (Titration by NaOH)                                          | 99-100 (%)               | 99.46 %                  |
| Heavy metal (as Pb)                                                 | 0-5 (ppm)                | 0.00 ppm                 |
| Water by Karl Fischer                                               | 0-1 (%)                  | 0.23 %                   |
| Appearance (T105287)                                                | white crystalline powder | white crystalline powder |
| Proton NMR spectrum                                                 | Conforms to Structure    | Conforms to Structure    |
| Solubility, Colorless, Clear, 200 g plus 300 ml of H <sub>2</sub> O | pass                     | Pass                     |
| Infrared spectrum                                                   | Conforms to Structure    | Conforms to Structure    |



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