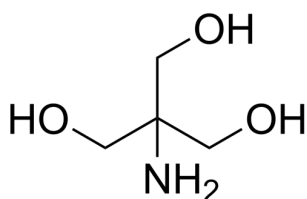


## Certificate of Analysis

### Compound Information

|                     |  |
|---------------------|--|
| Product Name:       | THAM   |
| Cat. No.:           | 1043246  |
| CAS No.:            | 77-86-1  |
| Molecular Formula:  | C <sub>4</sub> H <sub>11</sub> NO <sub>3</sub> |
| Molecular Weight:   | 121.14   |
| Chemical Structure: |  |



### Batch Information

|              |                     |
|--------------|---------------------|
| Batch No.:   | L366560             |
| Storage:     | Storage temp. 2-8°C |
| Test Date:   | 2024-03-07          |
| Retest Date: | 2027-03-06          |
| Origin:      | Shanghai, China     |

### QC Summary

|                                  | Specification              | Result                    |
|----------------------------------|----------------------------|---------------------------|
| Appearance:                      | White to off-white (Solid) | White (Crystal)           |
| <sup>1</sup> H NMR Spectrum:     | Consistent with structure  | Consistent with structure |
| Melting point, °C:               | 168-172                    | 168.9-169.7               |
| Moisture, ω/%:                   | ≤0.2                       | 0.06                      |
| pH(50 g/L 25°C):                 | 10.0-11.5                  | 10.73                     |
| Clarity:                         | Colorless (40% in water)   | Qualified                 |
| Absorbance (260nm.400g/L) , ω/%: | ≤0.1                       | Qualified                 |
| Absorbance (280nm.400g/L) , ω/%: | ≤0.06                      | Qualified                 |
| Absorbance (290nm.400g/L) , ω/%: | ≤0.2                       | Qualified                 |
| Absorbance (400nm.400g/L) , ω/%: | ≤0.02                      | Qualified                 |
| Water Insoluble Substance, ω/%:  | ≤0.005                     | Qualified                 |

|                                     |   |           |
|-------------------------------------|---|-----------|
| <b>Heavy Metals(as Pb),ppm:</b>     | ≤5.0  | Qualified |
| <b>Iron(Fe),ppm:</b>                | ≤5.0  | Qualified |
| <b>Chloride(Cl),ppm:</b>            | ≤1.0  | Qualified |
| <b>Sulfate(SO<sub>4</sub>),ppm:</b> | ≤10.0   | Qualified |
| <b>Burning Residue,ω/%:</b>         | ≤0.1  | Qualified |
| <b>Purity,ω/%:</b>                  | 99.5-101.0  | 99.74     |
| <b>Conclusion:</b>                  | The product has been tested and complies with the given specifications. |           |

**Caution: Research use only and are not intended for human use.**

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