

# Tris(hydroxymethyl)aminomethane hydrochloride(TRIS-HCl)

## Product Information

Product Code: ACC0029A

Grade: High Purity Grade

CAS No: 1185-53-1

Mol. Formula: C<sub>4</sub>H<sub>11</sub>NO<sub>3</sub>HCl

Mol. Weight: 157.59

Packing: 25KG/DRUM

Purity: 99.1%

Appearance: White crystalline powder

Storage: Store at RT. Protect from moisture.

## Product Introduction

Tris(hydroxymethyl)aminomethane, commonly known as Trometamol, Tris base, or Trizma base, plays a crucial role in diverse research applications as a biological buffer. It is extensively used in the formulation of buffers like Tris-acetate-EDTA (TAE) and Tris-borate-EDTA (TBE), owing to its optimal pKa of 8.1, making it well-suited for maintaining pH within the physiological range (pH 7 -9) applicable to most living organisms. However, caution might be necessary when studying some proteins, as Tris has the potential to interfere with the activity of certain enzymes. Tris base can be employed both independently as a buffer and as a component in mixed buffer formulations, including Tris-EDTA (TE) buffer, TAE buffer, and TBE buffer, among others. Importantly, Tris base is characterized by its purity, essential stability, and relative non-hygroscopic nature.



## Application

- Commercial Purification (Downstream Processing) of Biological Molecules, Including Monoclonal Antibodies and Recombinant Proteins
- Raw Materials for API / Drug Substance Formulation
- Ideal as a Buffer for Biochemistry Including DNA, RNA and Protein Purification
- Buffer for Molecular Biology and Clinical Diagnostic Applications
- Research and Development (R&D) Buffer
- Buffer for Analytical Chromatography, Electrophoresis and PCR
- Non-Sterile Excipient



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