

# Tris(hydroxymethyl) aminomethane(Tris base)

## Product Information

Product Name: Tris(hydroxymethyl) aminomethane (Tris base)

Product Code: ACC0030B

Grade: Ultra Pure Grade

CAS No: 77-86-1

Mol. Formula:  $C_4H_{11}NO_3$

Mol. Weight: 121.14

Packing: 25KG/DRUM

Purity: 99.9%

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

- Electrophoresis and PCR
- Analytical Chromatography
- Raw Material for Insulin Manufacturing
- Research and Development (R&D) Applications
- pH Buffering of Enzymes in Biotechnology Applications
- Processing Aid for Commercial Protein Purification (Biologics DSP)
- Blood Plasma Fractionation
- General Diagnostics Reagent
- CoV-SARS2 (COVID) Diagnostic Test Kits



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