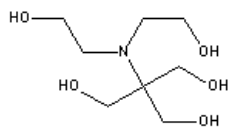


Catalog Number: 101038, 194546

## bis-Tris

### Structure:



**Molecular Formula:** C<sub>8</sub>H<sub>19</sub>NO<sub>5</sub>

**Molecular Weight:** 209.2

**CAS # :** 6976-37-0

**Synonym:** bis(2-hydroxymethyl)imino-tris (hydroxymethyl) methane; 2-bis(2-Hydroxyethyl)amino-2-(hydroxymethyl)-1,3-propanediol; 2,2-bis(Hydroxymethyl)-2,2',2''-nitrilotriethanol

**Physical Appearance:** White crystalline powder

**Solubility:** Soluble in water (1 M - clear, colorless solution). For sterilization of aqueous solutions, MP Biomedicals recommends sterile filtration with a 0.2 um filter; however, the product is typically stable for autoclaving.

**pKa:** 6.5 at 25°C;  $\Delta pK/\Delta T = -0.03^{(1)}$

**EM (water):**<sup>2</sup>

259 nm = 10

277 nm = 10

**Useful pH Range:** 5.8-7.2

**Description:** A zwitterionic buffer; an amine buffer similar to Tris. Hydrochloric acid can be used to adjust pH for a bis-Tris buffer to the desired pH.

**Availability:**

Catalog Number	Description	Size
101038	bis-Tris	25 g 100 g 500 g 1 kg
194546	bis-Tris, cell culture reagent	25 g 100 g 500 g 1 kg

**References:**

1. *Methods in Enzymology*, v. **182**, 27-28 (1992).
2. Lewis, J.C., *Analytical Biochemistry*, v. **14**, 495 (1986).