



## Tris Base Ultrapure

### Catalog number

T8600

### Supplier

United States Biological

Tris is one of the most widely used buffers in molecular biology and cell culture due to its low toxicity, stability and buffering capacity.

### Synonyms

2-Amino-2-(hydroxymethyl)-1,3-propanediol; 2-Amino-2-(hydroxymethyl)propane-1,3-diol; 2-Amino-2-methylol-1,3-propanediol; Addex-Tham; Aminotri(hydroxymethyl)methane; Aminotris(hydroxymethyl)methane; Methanamine, 1,1,1-tris(hydroxymethyl)-; NSC 103026; NSC 6365; NSC 65434; Pehanorm; Ricrolin TE; TAM; TAM (buffering agent); THAM; Talatrol; Tri Amino; Tris-steril; Trisamin; Trisamine; Trisaminol; Trizma; Trizma Base; Trometamol; Trometamole; Tromethane; Tromethanmin; Tutofusin Tris; [2-Hydroxy-1,1-bis(hydroxymethyl)ethyl]amine; Tris base

### CAS No

77-86-1

### Molecular Formula

$C_4H_{11}NO_3$

### Molecular Weight

121.14

### Purity

≥99.9%

### Appearance

White, crystalline powder

### pH (1M)

10.5-11.5

### pKa

8.0-8.4

### Absorbance (260nm)

≤0.06

### Absorbance (280nm)

≤0.05

### Absorbance (290nm)



≤0.02

**Solubility (1M)**

Colorless, clear, complete

**Loss on Drying**

≤0.5%

**Melting Point**

168-172°C

**Heavy Metals (Pb)**

≤0.0001%

**Arsenic**

≤0.0001%

**Copper**

≤0.0001%

**Iron**

≤0.0001%

**Magnesium**

≤0.0001%

**Insoluble Matter**

≤0.005%

**Residue on Ignition**

≤0.1%

**RNase, DNase, Protease**

Meets specifications

**Storage**

RT

**Grade**

Molecular Biology Grade

**Storage**

RT

**MW**

121.14

**Formula**

C<sub>4</sub>H<sub>11</sub>NO<sub>3</sub>



## Reference

US Biological application reference: García-de la Cruz, L. et al., (2012) J. Pharmacy and Pharmacology  
doi: 10.1111/jphp.12015.