

## Certificate of Analysis

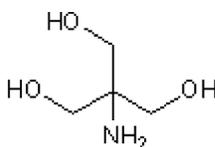
[www.tocris.com](http://www.tocris.com)

**Product Name:** TRIS base  
CAS Number: 77-86-1  
IUPAC Name: 2-Amino-2-(hydroxymethyl)-1,3-propanediol

**Catalog No.:** 3163      **Batch No.:** 11  
**EC Number:** 201-064-4

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>4</sub>H<sub>11</sub>NO<sub>3</sub>  
**Batch Molecular Weight:** 121.14  
**Physical Appearance:** White solid  
**Solubility:** water to 5000 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**Assay (titration):** 100%  
**pH:** 10.5 (1M solution)  
**Water content:** <0.1%  
**Lead:** <5ppm  
**Iron:** <1ppm

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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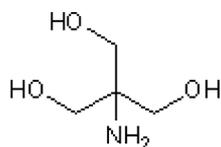
**Description:**

TRIS base is a commonly used laboratory reagent. Highly water soluble. Working pH range 7 - 9. Used in buffer solutions such as Tris-buffered saline (TBS), Tris-acetate-EDTA (TAE) in combination with acetic acid and EDTA (Cat. No. 2811) and Tris-borate-EDTA in combination with boric acid and EDTA.

**Physical and Chemical Properties:**Batch Molecular Formula: C<sub>4</sub>H<sub>11</sub>NO<sub>3</sub>

Batch Molecular Weight: 121.14

Physical Appearance: White crystalline powder

**Minimum Purity:** ≥99.5%**Batch Molecular Structure:****Storage:** Store at RT**Solubility & Usage Info:**

water to 3000 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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