

Certificate of Analysis

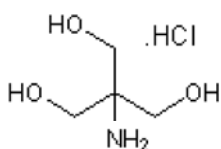
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Product Name: TRIS hydrochloride
CAS Number: 1185-53-1
IUPAC Name: 2-Amino-2-(hydroxymethyl)-1,3-propanediol hydrochloride

Catalog No.: 3164 **Batch No.:** 5
EC Number: 214-684-5

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄H₁₁NO₃.HCl
Batch Molecular Weight: 157.6
Physical Appearance: White solid
Solubility: water to 4000 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 150 - 152°C
Assay (titration): 100%
pKa: 8.2
pH (1M aqueous solution): 4.0
Water content (KF): 0.05%
Heavy metals: <5ppm

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

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IUPAC Name: 2-Amino-2-(hydroxymethyl)-1,3-propanediol hydrochloride

Description:

Commonly used laboratory reagent. Highly water soluble. Working pH range 7 - 9. Used in buffer solutions such as Tris-buffered saline (TBS) in combination with NaCl (Cat. No. 3146), Tris-acetate-ETDA (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:

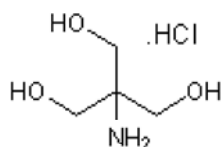
Batch Molecular Formula: C₄H₁₁NO₃.HCl

Batch Molecular Weight: 157.6

Physical Appearance: White solid

Minimum Purity: ≥99.9%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 4000 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. Our standard recommendations are:

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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