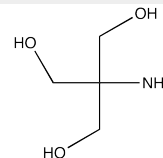


**Tris-(hydroxymethyl)-aminomethane**, secondary standard for volumetric titrations, Titrasure®**Identification**

C<sub>4</sub>H<sub>11</sub>NO<sub>3</sub>  
M = 121,14 g/mol  
CAS [77-86-1]  
EC number: 201-064-4  
Taric code: 2922 19 85

**Synonyms**

2-Amino-2-(hydroxymethyl)-1,3-propanediol, Tromethamine, THAM, TRIS buffer

**Specifications**

assay (on dried sample).....	99,8 - 100,1 %	heavy metals (as Pb).....	max. 0,0005 %
absorbance.....	passes test	iron (Fe).....	max. 0,0005 %
insoluble in water.....	max. 0,005 %	water (K.F.).....	max. 2 %
uncertainty .....	0,05%		

Drying: Dry at room temperature for 24h  
in a vacuum desiccator  
over anhydrous magnesium perchlorate  
or equivalent

**Packaging****Packaging Code**

D  D

**Physical data**

- Spec. Density: 1,353 g/cm<sup>3</sup>
- Bulk density: ~ 840 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 800 g/l
- Melting point: 172 - 173 °C
- Boiling point: (13,3 hPa) 219 - 220 °C
- pH(6 g/l H<sub>2</sub>O, 20 °C) 10,2 - 10,6

**Safety - GHS**

**Signal Word:** Warning

**Hazard Statements:**

H315: Causes skin irritation.  
H319: Causes serious eye irritation.

**Precautionary Statements:**

P280: Wear protective gloves / protective clothing / eye protection / face protection.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321: Specific treatment (see on this label).  
P362: Take off contaminated clothing and wash before reuse.  
P332+P313: If skin irritation occurs: Get medical advice / attention.  
P337+P313: If eye irritation persists: Get medical advice / attention.

**Toxicological data**

- LD 50 (oral, rat): 5900 mg/kg
- WGK: 1

**Transport/storage**

- Store between 15°C and 25°C