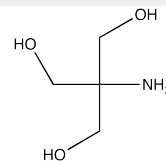


Identification

$C_4H_{11}NO_3$
 $M = 121,14 \text{ g/mol}$
 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

Applications

analytical chemistry, in buffer solutions, in biochemistry, laboratory reagent, in the pharmaceuticals industry, emulsifier (cosmetics), for the synthesis of: tensoactives, in pharma industry.

Specifications

assay (acidimetric, referred to dried sample).....	99,0 - 100,5 %	appearance of solution.....	clear and colourless
Identification A (EP).....	passes test	chlorides (Cl).....	max. 100 ppm
Identification D (EP).....	passes test	iron (Fe).....	max. 10 ppm
Identification IR.....	passes test	Related substances:passes test	
melting point.....	168 - 174 °C	residue on ignition.....	max. 0,1 %
pH (5 %, H ₂ O).....	10,0 - 11,5	loss on drying (105 °C).....	max. 0,5 %

Physical data

- Appearance: bright elongate crystals, colourless
- Spec. Density: 1,353 g/cm³
- Bulk density: ~ 840 kg/m³
- 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 H₂O, 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.
 P264: Wash thoroughly after handling.
 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).
 P332+P313: If skin irritation occurs: Get medical advice / attention.
 P337+P313: If eye irritation persists: Get medical advice / attention.

Transport/storage

- 10°C - 30°C