

Product Specification

Product Name: TRIS(HYDROXYMETHYL)METHYLAMINE AR

Alternate Name(s) 2-amino-2-(hydroxymethyl)-1,3-propanediol; "TRIS" amine buffer; "THAM";
Description tris(hydroxymethyl)aminomethane
White crystalline solid.

Properties

Chemical Formula: $(\text{CH}_2\text{OH})_3\text{CNH}_2$
Molecular Weight: 121.14

Product Code: TA034
CAS No.: 77-86-1

General Information:

Corrosive to copper, brass, aluminium. Combustible. Soluble in ethylene glycol, methanol, anhydrous ethanol, 95% ethanol, DMF.

Hazard and Safety Data

UN Group: None Allocated
Class: None Allocated
UN Number: None Allocated
Hazchem code: None Allocated
CS MSDS Code: 1CHSR
Poison schedule: Not Scheduled
Emergency Procedure Guide No.: N/A

Quality Specification

Assay: 99.8-100.1%

Specific Properties and Impurities [Typical levels]:

Absorbance (40% aq., 1cm, 290nm)	0.2 AU
Identity (IR)	Conforms
Insoluble matter	0.005%
pH of a 5% solution	10.3-10.9
Chlorides (Cl)	0.0005%
Sulfates (SO ₄)	0.0005%
Heavy metals (as Pb)	0.0005%
Residue on ignition	0.1%
Loss on drying (105°C)	0.5%
Water (H ₂ O)	0.5%
Arsenic (As)	0.00002%
Cadmium (Cd)	0.00001%
Calcium (Ca)	0.0005%
Copper (Cu)	0.00001%
Iron (Fe)	0.0005%
Lead (Pb)	0.00001%
Magnesium (Mg)	0.0005%
Potassium (K)	0.0005%
Sodium (Na)	0.0005%
Zinc (Zn)	0.00005%

CONFORMS TO ACS

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