

TRIS

MEETS USP, EP, JPC, ChP, BET*

CAS #: 77-86-1

Formula: $\text{NH}_2\text{C}(\text{CH}_2\text{OH})_3$

F.W.: 121.14 g/mol

TRIS-6251

BIO QUALIFIED GRADE

ANALYSIS	SPECIFICATIONS
Absorbance (10%)	260 nm < = 0.03 a.u. 280 nm < = 0.02 a.u. 430 nm < = 0.004 a.u.
Absorbance (40%)	280 nm < = 0.06 a.u. 290 nm < = 0.2 a.u. 400 nm < = 0.02 a.u.
Absorbance (1M)	260 nm < = 0.06 a.u. 280 nm < = 0.05 a.u. 430 nm < = 0.01 a.u.
APHA Color, 20% Aqueous Solution	< = 20 APHA
Appearance of Solution	Passes Test
Assay, Dried Basis	99.0 - 100.5%
Assay, Dried Basis (UltraPure)	> = 99.9%
Chloride	< = 100 ppm
Clarity & Color of Solution	Passes Test
Endotoxin	< = 2.5 EU/g
Foreign Materials, 10% Solution	Clear and Complete
Identification A (JPC)	Passes Test
Identification A (EP), pH (5%)	10.0 - 11.5
Identification, IR (USP-A/EP-C/ChP-3)	Conforms to Reference Standard
Identification B (USP/ChP-1)	Passes Test
Identification B (JPC)	Passes Test
Identification B (EP), Melting Point	168-172°C
Identification C (USP)	Passes Test
Identification D (EP/ChP-2)	Conforms to Reference Standard
Insoluble Matter	< = 0.005%
Loss on Drying	< = 0.3%
Microbial Content	TAMC < 50 CFU/g TYMC < 50 CFU/g

ANALYSIS	SPECIFICATIONS
Non-Volatile Residue	< = 0.1%
Odor	Pass
pH (1 in 100)	10.3 - 10.7
Related Substances	< = 0.10%
Residual Solvents	Pass
Residue on Ignition / Sulfated Ash	< = 0.05%
Solubility (40%)	Pass
Volatile Residue	< = 0.5%
Trace Metals	Arsenic (As) < = 1.6 ppm Barium (Ba) < = 5 ppm Bismuth (Bi) < = 5 ppm Cadmium (Cd) < = 5 ppm Calcium (Ca) < = 1 ppm Chromium (Cr) < = 5 ppm Cobalt (Co) < = 5 ppm Copper (Cu) < = 1 ppm Iron (Fe) < = 5 ppm Lead (Pb) < = 5 ppm Magnesium (Mg) < = 1 ppm Manganese (Mn) < = 1 ppm Molybdenum (Mo) < = 5 ppm Nickel (Ni) < = 5 ppm Potassium (K) < = 50 ppm Zinc (Zn) < = 5 ppm
Water, KF	< = 0.2%

*Bioburden and Endotoxin Tested

Refer to page 2 for additional product details.

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General Product Overview

Tromethamine (Tris) is commonly used as a buffer and excipient in downstream biological applications during the manufacture of drug products. Tris is considered a Good's buffer because it has low UV absorptivity, minimal reactivity, stable pH and is soluble in water.

Industry Application

Suitable for use as a cGMP chemical in pharmaceutical manufacturing processes and biological/biotech process applications from R&D through scale cGMP production.

Key Product Features

- Appears as a white crystalline product
- Manufactured in accordance with the ISO Certified Quality Management System
- Manufactured in an enzyme free, hormone free and animal free environment
- Contains no known major food allergens (as defined by FDA and WHO)
- The final product and its raw materials are not derived from nor come into contact with animal parts, animal products, and/or animal byproducts or derivatives.
- Is not subject to genetic modification
- Synonyms: Trometamol; THAM; Tris (Hydroxyethyl) Aminomethane; Trisaminol; Trismethylolaminomethane; 2-Amino-2 (Hydroxymethyl) propane-1,2-diol; Tromethamine

Storage and Shipping Conditions

Refer to SDS.

Standard Shelf-Life Policy

Please inquire for information regarding shelf-life.

Package Sizes

1kg, 5kg, 10kg, 25kg, 50kg

[Click here to view SDS, CoAs and other supporting regulatory documents on our website.](#)

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