

TRIS (TROMETHAMINE)

High Assay, USP, GMP

CAS #: 77-86-1

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

F.W.: 121.14 g/mol

TRIS-4223

BIO PHARMA GRADE

ANALYSIS		SPECIFICATIONS
Absorbance (1M)	260 nm	< = 0.06 a.u.
	280 nm	< = 0.06 a.u.
	430 nm	< = 0.01 a.u.
Absorbance (10%)	260 nm	< = 0.03 a.u.
	280 nm	< = 0.02 a.u.
	430 nm	< = 0.004 a.u.
Absorbance (40%)	290 nm	< = 0.20 a.u.
APHA Color (20% Solution)		< = 20 APHA
Assay, Dried Basis (USP)		99.0 - 101.0%
Assay, Dried Basis (Ultrapure)		> = 99.9%
Chloride		< = 20 ppm
Endotoxin		< = 2.5 EU/g
Enzymes	DNase	None Detected
	Protease	None Detected
	RNase	None Detected
Identification A, IR (USP)		Conforms to Reference Standard
Identification B (USP)		Passes Test
Identification C (USP)		Passes Test
Insoluble Matter		< = 0.005%
Loss on Drying (USP)		< = 0.3%
Melting Range (USP)		168 - 172°C
Microbial Content	TAMC	< = 100 CFU/g
	TYMC	< = 100 CFU/g
pH (5%) (USP)		10.0 - 11.5
Related Substances		< = 0.1%
Residue on Ignition (USP)		< = 0.05%
Trace Metals	Aluminum (Al)	< = 5 ppm
	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)	< = 1 ppm
	Lead (Pb)	< = 1 ppm
	Lithium (Li)	< = 5 ppm
	Magnesium (Mg)	< = 5 ppm
	Manganese (Mn)	< = 1 ppm
	Molybdenum (Mo)	< = 5 ppm
	Nickel (Ni)	< = 5 ppm
	Potassium (K)	< = 50 ppm
	Sodium (Na)	< = 50 ppm
	Zinc (Zn)	< = 1 ppm
Water, KF		< = 1.0%

Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

This is a high purity, reagent grade product, purified under a cGMP system. It is used when high purity, high assay, GMP grade Tromethamine is required. Tris is considered a Good's buffer because it has low UV absorptivity, minimum reactivity, stable pH and is soluble in water.

General Product Description

- Appears as a white crystalline product
- Manufactured in accordance with IPEC
- 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: Tris(hydroxymethyl) aminomethane, Trometamol, THAM, Trisaminol
- Visit the product page on our website (www.biospectra.us) for additional information, supporting regulatory documents, and CoAs.

Storage and Shipping Conditions

Refer to SDS.

Standard Shelf Life Policy

Each Certificate of Analysis will contain a 2-year retest date supported by a 3-year ICH Q1 Stability Study (if one is completed).

Package Sizes

100g, 500g, 1kg, 5kg, 10kg, 25kg, 50kg

Standard Lead Time

2-4 weeks

Country of Origin: USA

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