

TRIS (TROMETHAMINE)

BIOTECH, HIGH ASSAY, USP, GMP

CAS #: 77-86-1

Formula: $C_4H_{11}NO_3$

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 |
| Assay, Dried Basis (Ultrapure) | | $\geq 99.9\%$ |
| Chloride | | ≤ 20 ppm |
| Endotoxin | | ≤ 2.5 EU/g |
| Enzymes | DNase | None Detected |
| | Protease | None Detected |
| | RNase | None Detected |
| Heavy Metals (as Pb) | | ≤ 1 ppm |
| Insoluble Matter | | $\leq 0.005\%$ |
| Loss on Drying | | $\leq 0.3\%$ |
| Melting Range | | 168 - 172°C |
| Microbial Content | TAMC | ≤ 100 CFU/g |
| | TYMC | ≤ 100 CFU/g |
| pH (5% solution) | | 10.0 - 11.5 |
| Related Substances | | $\leq 0.1\%$ |
| Residue on Ignition | | $\leq 0.05\%$ |
| 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 | | $\leq 1.0\%$ |

Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

This is a high purity, GMP, Reagent grade product, purified under a full cGMP system. It is used when high purity, high assay, GMP 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 under an ICH-Q7 Quality Managed cGMP System
- Manufactured in an enzyme free, hormone free and animal free environment
- 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/derivatives.
- Is not subject to genetic modification
- Synonyms: Tris, Tromethamine, Tris(hydroxymethyl) aminomethane
- Visit the product page on our website (www.biospectra.us) for additional information,

Storage and Shipping Conditions

Refer to SDS.

Standard Shelf Life Policy

Each Certificate of Analysis will contain a 2-year retest/recertification 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

1-2 weeks

Country of Origin: USA