

TROMETHAMINE (TRIS)

INTENDED FOR USE IN COMMERCIAL MANUFACTURING, DIAGNOSTIC AND LABORATORY APPLICATIONS

Tris, commonly used as a buffer in biochemistry and molecular biology, stabilizes the pH of solutions in electrophoresis and other biological applications. It is also an enzyme inhibitor used in the biopharmaceutical industry and is commonly utilized in electro-chromatography, UV analysis and HPLC applications. Tris is extensively used as a biological buffer or a component of buffer solutions. Tris can be used as a Good's buffer because it has low UV absorptivity, minimal reactivity, stable pH and is soluble in water.



CAS #: 77-86-1

Molecular Formula: C₄H₁₁NO₃

Solubility in Water (g/L): 550

F.W.: 121.14 g/mol

pH @ 20°C: 10.0 - 11.5

Useful pH: 7.0 - 9.0

pKa @ 20°C: 8.3

BIO ULTRA GRADE | Product Code: TRIS-5220 | Previously: TR5220

C₄H₁₁NO₃ · F.W. 121.14 g/mol · CAS# 77-86-1

These are general specifications. BioSpectra will customize our products to meet your quality based requirements.

ANALYSIS		SPECIFICATIONS
Absorbance (40%)	290 nm	0.02 a.u. max.
Appearance and Color		White / Crystals
Assay		99.8-100.1%
Heavy Metals		5 ppm max.
Identification B		Passes Test
Identification C		Passes Test
Identification (IR)		Passes Test
Insoluble Matter		0.005% maximum
Karl Fischer Water		2% maximum
Loss on Drying		1% maximum
Melting Range		168-172 °C
pH		10.0-11.5
Residue on Ignition		0.1% maximum
Trace Metals	Iron (Fe)	5 ppm maximum



Key Compliance Attributes of Bio Ultra Grade

Suitable for Research and Diagnostic Application
C of A Available for Each Lot
Management of Change
Trace Metals Analyzed
Stability Testing Program
BioSpectra Supply Chain Audit Trail
Product Origin Statement
Customer Quality Audits
Customized Additional Specifications
Enzyme Tested

General Product Description:

- Tromethamine is a White Crystalline product.
- Molecular Formula: $C_4H_{11}NO_3$
- Molecular Weight: 121.14 g/mol.
- CAS Number: 77-86-1.
- Synonyms: Tris, Tromethamine, Tris (hydroxymethyl) aminomethane.

Intended Use Statement:

Material represented by this grade is suitable to be used only as the following: Quality System Manufactured Process Chemical for use in further manufacturing or as a reagent for laboratory and research. The material represented by this grade is not suitable to be used as an Excipient, Active Pharmaceutical Ingredient, Drug, Drug Product or household item.

Retest Date:

BioSpectra does not assign expiration or retest dates for Bio Ultra Grade materials.

Storage and Shipping Conditions:

Ship and Store in ambient temperature.

Package Sizes:

10kg, 25kg and 50kg pails.

