

TRIS HYDROCHLORIDE

BET*, LEI, GMP**

CAS #: 1185-53-1

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

F.W.: 157.60 g/mol

THCL-3259

BIO EXCIPIENT GRADE

ANALYSIS		SPECIFICATIONS
Absorbance (1M)	260 nm	< = 0.06 a.u.
	280 nm	< = 0.06 a.u.
	400 nm	< = 0.01 a.u.
Appearance and Color		White Crystals
Assay, Dried Basis		99.5 – 101.0%
Endotoxin		< = 2.5 EU/g
Enzymes	DNase	None Detected
	RNase	None Detected
	Protease	None Detected
Identification, Chloride		Passes Test
Identification, IR		Conforms to Reference Standard
Insoluble Matter		< = 0.001%
Loss on Drying		< = 0.5%
Microbial Content	TAMC	< 50 CFU/g
	TYMC	< 50 CFU/g
Melting Range		150 - 152 °C
pH (1%)		4.0 – 5.0
pH (0.5%)		3.5 – 5.0
pKa		8.0 – 8.4
Residue on Ignition		< = 0.03%
Solubility (35%)		Passes Test
Trace Metals	Arsenic (As)	< = 1 ppm
	Cadmium (Cd)	< = 1 ppm
	Calcium (Ca)	< = 1 ppm
	Copper (Cu)	< = 1 ppm
	Iron (Fe)	< = 1 ppm
	Lead (Pb)	< = 1 ppm
	Manganese (Mn)	< = 1 ppm
	Magnesium (Mg)	< = 1 ppm
	Zinc (Zn)	< = 1 ppm
Water, KF		< = 0.5%

*Bioburden and Endotoxin Tested

**Low Elemental Impurities

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

General Product Overview

Tris Hydrochloride is a stabilizing buffer in biological applications such as electrochromatography, UV analysis and HPLC. It is used to adjust and stabilize the pH ranges for gels used in electrophoresis applications. Tris Hydrochloride is extensively used as a biological buffer or a component of buffer solutions.

Industry Application

Suitable for use as a cGMP chemical in pharmaceutical manufacturing processes and products.

Key Product Features

- The manufacturing of Tris Hydrochloride, THCL-3259 is performed at BioSpectra's Stroudsburg, PA facility.
- Appears as white crystals
- Manufactured in accordance with ICH Q7
- 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: 2-Amino-2-(Hydroxymethyl)propane-1,3-diol hydrochloride; Tri(Hydroxymethyl) Aminomethane Hydrochloride

Storage and Shipping Conditions

Refer to SDS.

Standard Shelf-Life Policy

Unless otherwise noted on the Shelf-Life Statement and CoA, this product has a 2-year retest date supported by a 3-year ICH Q1 Stability Study (if one is completed).

Package Sizes

10kg, 25kg and 50kg pails

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