

TRIS HYDROCHLORIDE

BIOTECH, HIGH ASSAY, LBLE, GMP, PREMIUM REAGENT

BIO PHARMA GRADE / THCL-4251

$\text{NH}_2\text{C}(\text{CH}_2\text{OH})_3 \cdot \text{HCl}$ F.W. 157.60 g/mo CAS# 1185-53-1

Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

This product is used as an ultra- high purity, GMP Reagent Grade of Tris hydrochloride suitable for critical applications where high assay is required. Tris Hydrochloride is considered a “Good’s” buffer because it has a low UV absorptivity, minimum reactivity, stable pH and is highly soluble in water.

SPECIFICATIONS

ANALYSIS		SPECIFICATIONS
Trace Metals	Arsenic (As)	≤ 5 ppm
	Calcium (Ca)	≤ 1 ppm
	Copper (Cu)	≤ 1 ppm
	Iron (Fe)	≤ 1 ppm
	Lead (Pb)	≤ 1 ppm
	Magnesium (Mg)	≤ 5 ppm
	Manganese (Mn)	≤ 1 ppm
	Zinc (Zn)	≤ 1 ppm
Enzymes	DNase	None
	RNase	None
	Protease	None
Absorbance (1M)	260nm	≤ 0.06 a.u.
	280nm	≤ 0.06 a.u.
	400nm	≤ 0.01 a.u.
Appearance and Color	White, Crystalline Powder to Needle-Like Crystals	
Assay, Dried Basis	≥ 99.0%	
Bioburden	≤ 100 CFU/g	
Endotoxin	≤ 2.5 EU/g	
Identification, Chloride	Passes Test	
Identification, IR	Conforms to Reference Standard	
Insoluble Matter	≤ 0.005%	
Loss on Drying	≤ 0.5%	
Melting Range	147 – 152°C	
pH (1% solution)	4.0 - 5.0	
pH (0.5M)	3.5 - 5.0	
Water, KF	≤ 1.0%	

General Product Description:

Molecular Formula: $C_4H_{11}NO_3$ HCl

Molecular Weight: 157.60 g/mol

CAS Number: 1185-53-1

Tris Hydrochloride Biotech:

- Appears as a white crystalline product.
- Is manufactured under an ICH-Q7 Quality Managed cGMP System
- Manufactured in an enzyme free, hormone free and animal free environment
- Has no known major food allergens (as defined by FDA and WHO)
- The final product nor its raw materials are not derived from nor come into contact with animals, animal parts, animal products, and/or animal byproducts or derivatives.
- Is not subject to genetic modification
- Synonyms: Tris Hydrochloride (HCl), 2-Amino-2-(Hydroxymethyl)-1,3-Propanediol Hydrochloride, Tris (Hydroxymethyl) Aminomethane Hydrochloride

Shelf Life Policy:

Three-year expiry from the date of manufacture.

Storage and Shipping Conditions:

Please refer to the SDS for storage and shipping conditions.

Package Size:

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