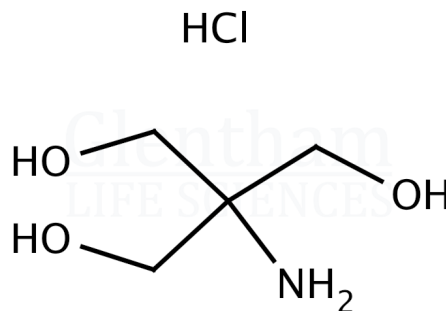


Certificate of Analysis

Product Name	TRIS hydrochloride
Glenthams Code	GB4431
CAS Number	1185-53-1
EINECS	214-684-5
MDL Number	MFCD00012590
PubChem SID	310281438
Batch Number	205DZO
Molecular Weight	157.60
Molecular Formula	$C_4H_{11}NO_3 \cdot HCl$
Storage Temp.	+20°C



Property	Specification	Batch 205DZO
Physical Description	White to off-white crystalline powder or crystals	White crystal
Identification (IR)	To conform to standard	Conforms
Solubility (20% in water)	Clear, colourless solution	Conforms
pH (0.5M in water, 25°C)	3.5 - 5.0	4.3
Melting Point	149.0 - 153.0 °C	152.9°C
UV Absorbance (1M in water)	≤ 0.060 (260nm)	0.004
	≤ 0.050 (280nm)	0.003
Heavy Metals (as Pb)	≤ 5ppm	Conforms
Assay (Titration)	99.0 - 101.0 % (dried basis)	100.0%

Specification Version	v1.1
Manufacture Date	2022-12-08
Re-Test Date	2031-01-25

Glenthams Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glenthams.com or contact us using the details above for the current version of this document.

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