

Chem-Impex International, Inc.

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Certificate of Analysis

Catalogue Number	23004
Lot Number	001331-20170902
Product	Tris-(carboxyethyl)phosphine hydrochloride TCEP•HCl
CAS Number	51805-45-9
Molecular Formula	C ₉ H ₁₅ O ₆ P•HCl
Molecular Weight	286.6

Appearance	White crystal
Solubility	Clear and colorless (1.1 M in Water)
Melting Point	180.7 - 182.5 °C
¹H NMR	Conforms to structure
Assay by titration	99.6%
Application	Reagent used in the reduction of disulfide bonds.
Storage	Store at 0-8 °C under Nitrogen
Additional Information	³¹ P NMR (D ₂ O) = No peak at 15 ppm ¹ H NMR (DMSO): < 10% NH ₄ Cl
Remarks	See material safety data sheet for additional information For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager