

Chem-Impex International, Inc.

Tel: (630) 766-2112

E-mail: sales@chemimpex.com

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	98005
Lot Number	001331-2308001
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 (1.1M in water)
Melting Point	178.0 - 181.9 °C
¹H NMR	Conforms to structure (D2O) < 10%, NH ₄ Cl (in DMSO)
³¹P NMR	No peak at 15 ppm (D2O)
Assay by titration	100.8%
Storage	Store at 0 - 8 °C under Nitrogen
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