

## **CERTIFICATE OF ANALYSIS**

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## 1. Identification

Catalogue T012500 Number

Product: TCEP Hydrochloride

Structure:

HO<sub>2</sub>C

HCI

CO<sub>2</sub>H

Lot Number: TRC3-1075595-1-1

This Product Is Stable To Be Shipped At Shipping

Condition: Room Temperature CAS Number: 51805-45-9

Synonym:

Molecular Formula: C9H15O6P• HCl Molecular weight: 250.19 + 36.46Source of Product:

N/A Solubility:

Methanol (Slightly), Water

(Slightly)

Purity: 98%

Storage Condition:

-20°C

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

White to Off-White Solid White to Off-White Solid **Appearance** 

**NMR** Conforms to Structure Conforms P NMR Conforms to Structure Conforms MS Conforms to Structure Conforms

Chloride Content Report Result 14.49% by Ion Chromatography

Elemental

Conforms %C: 37.51, %H: 5.65

**HPLC Purity** Report Result 99.28% (ELSD)

**Additional Information:** N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Analysis

C of A Approved **Reviewed By Reviewed By Test Date Retest Date** By Chanell Chu

Evan Burns

Evan Burns

Toni Rantanen

6/28/2022 6/26/2026