

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-02-26 11:22:06
 Date of Next Testing: 2026-02-15 11:22:06
 Product Name: **Tris(2-carboxyethyl)phosphine hydrochloride**
 CAS Number: 51805-45-9
 Specifications & Purity: 98%
 Lot #: B2422214
 SKU #: **T107252**
 Version: **0**
 Analysis #: **319424**
 Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

| Parameter | Limit Values | Result |
|------------------------------------------------------------------------------------|--------------------------|--------------------------|
| Carbon by Elemental Analysis(anhydrous) | 37-40.2 (%) | 37.67% |
| Purity(HPLC) | 98-100 (%) | 99.84800% |
| Water by Karl Fischer | 0-6 (%) | 2.09% |
| Appearance (T107252) | White Powder or Crystals | White Powder or Crystals |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |
| Solubility in H ₂ O , Colorless,Clear to Very Slightly Hazy,50mg/ml(5%) | pass | Pass |



John Su
QA & QC Manager