

Certificate of Analysis

Date of Testing: 2023-07-27 14:13:05
Date of Next Testing: 2025-07-16 14:13:05
Product Name: **Tris(2-carboxyethyl)phosphine hydrochloride**
CAS Number: 51805-45-9
Specifications & Purity: 98%
Lot #: G23261136
SKU #: **T107252**
Analysis: 092700
Storage Temperature: Store at 2-8°C, Argon charged

| Parameter | Limit Values | Result |
|--|--------------------------|--------------------------|
| Carbon by Elemental Analysis(anhydrous) | 37-40.2 (%) | 37.70% |
| Water by Karl Fischer | 0-6 (%) | 3.23% |
| Purity(HPLC) | 98-100 (%) | 98.01000% |
| 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