

## CERTIFICATE OF ANALYSIS

PRODUCT:	<b>TCEP · HCL</b> [Tris(2-carboxyethyl)phosphine hydrochloride] <b>C<sub>9</sub>H<sub>15</sub>O<sub>6</sub>P · HCl; M.W. 286.6; CAS# [51805-45-9]</b>
PRODUCT NUMBER:	T-1180
LOT NUMBER:	J1052
APPEARANCE:	White crystalline solid
SOLUBILITY:	30% clear and colorless aqueous solution.
INFRARED SPECTRUM:	Consistent with reference spectrum.
PURITY:	99.5%
MELTING POINT:	179°C – 180°C
STORAGE & HANDLING:	Store desiccated at -20°C. <b>PROTECT FROM MOISTURE!</b>  CAUTION: For research use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: KLS