

CERTIFICATE OF ANALYSIS

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| PRODUCT: | TCEP · HCL [Tris(2-carboxyethyl)phosphine hydrochloride] C₉H₁₅O₆P · HCl; M.W. 286.6; CAS# [51805-45-9] |
| PRODUCT NUMBER: | T-1180 |
| LOT NUMBER: | J1052A |
| 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. PROTECT FROM MOISTURE! 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