Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs

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Certificate of Analysis

Tris(2-carboxyethyl)phosphine hydrochloride

Catalog Number: TC1001
Lot Number: 0526001
CAS Number: 51805-45-9
Synonym(s): TCEP
Molecular Formula: $C_9H_{15}O_6P \cdot HCl$
Molecular Weight: 286.65
Storage: 2ºC – 8ºC
Date of Manufacture: May 6, 2019
Retest Date: May 5, 2021

Test	Specification	Result
Appearance	White crystal	Conforms
Assay	≥ 98%	99.60%
H-NMR	To match structure	Conforms
Solubility (50mg/mL)	Clear to slightly hazy, colorless	Conforms
Melting Point	170º-180ºC	171.4ºC

Approved by:

Date: May 26, 2020

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For research or further manufacturing. Not for drug, clinical or a food use in humans or animals.