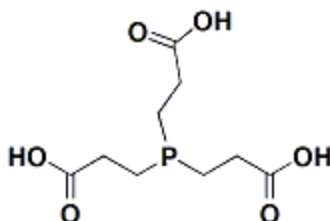


TCEP-HCl Product Information Sheet

Product Category:	Chemical Reagents
Catalog Number(s):	cr8104-1gm
Product Name:	TCEP-HCl
Alternative Name(s):	Tris(2-Carboxyethyl)phosphine hydrochloride
CAS Number:	51805-45-9
Chemical Formula:	C ₉ H ₁₅ O ₆ P
Molecular Weight:	286.65 g/mol
Storage:	Store desiccated at 20°C (shipped at ambient temperature)



TCEP-HCl can be used to reduce sulfhydryls in aqueous solution with pH 1.5-9, but is not particularly stable in phosphate buffers especially at neutral pH and should be added just before use. Usually, 5-50mM TCEP-HCl provides sufficient molar excess to reduce protein and peptide disulfide bonds in a few minutes. A 1:1 molar ratio of TCEP-HCl to sulfhydryl can take up to an hour to reduce while a 10:1 ratio takes < 10 minutes at room temperature. For best results after reduction, excess TCEP-HCl is removed by dialysis or using a desalting column.