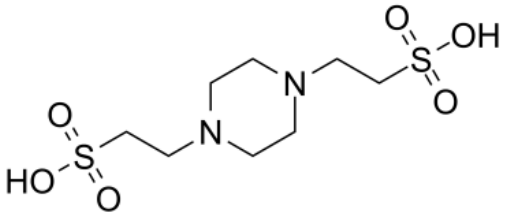
Product Data Sheet

Product Name: PIPES
Cat. No.: GC61192

Chemical Properties

Cas. No.	5625-37-6		
SMILES	O=S(CCN1CCN(CCS(=O)(O)=O)CC1)(O)=O		
Formula	$C_8H_{18}N_2O_6S_2$	M.Wt	302.37
Solubility	Water: 5 mg/mL (16.54 mM; ultrasonic and adjust pH to 7 with NaOH)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

PIPES (1,4-Piperazinediethanesulfonic acid) is an important component of PIPES buffer agent used in biochemistry[1].

To prepare the pH PIPES buffer, 173 g of 1,4-piperazinediethanesulfonic acid are dissolved into 1 L of deionized water. The pH of the PIPES buffer is adjusted to 6.8 by adding pellets of sodium

hydroxide.PIPES buffer can be used to PIPES buffer, it can prevent the glutaraldehyde fixation induced lipid loss and artifacts[1].

[1]. Jason Moggridge, et al. Sensitive Detection of Immunoglobulin G Stability Using in Real-Time Isothermal Differential Scanning Fluorimetry: Determinants of Protein Stability for Antibody-Based Therapeutics. Technol Cancer Res Treat. 2017 Dec;16(6):997-1005.