

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

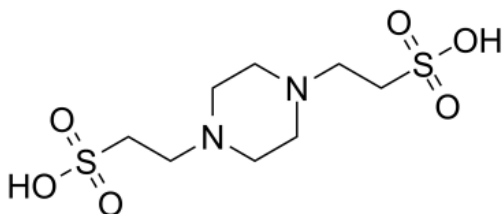
Formula $C_8H_{18}N_2O_6S_2$ M.Wt 302.37

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

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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