
Product Data Sheet

Product Name: D-Threitol

Cat. No.: GC30711

Chemical Properties

Cas. No. 2418-52-2

SMILES OC[C@H]([C@@H](CO)O)OFormula $C_4H_{10}O_4$

M.Wt 122.12

Solubility DMSO : 250 mg/mL (2047.17 mM; Need ultrasonic) 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**

D-threitol serves as a antifreeze agent in the Alaskan beetle *Upis ceramoides*.

[1]. Walters KR Jr, et al. Cryoprotectant biosynthesis and the selective accumulation of threitol in the freeze-tolerant Alaskan beetle, *Upis ceramoides*. *J Biol Chem*. 2009 Jun 19;284(25):16822-31.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA
