
Product Data Sheet

Product Name: Echothiophate (iodide)

Cat. No.: GC18648

Chemical Properties

Cas. No. 513-10-0

Chemical Name 2-[(diethoxyphosphinyl)thio]-N,N,N-trimethyl-ethanaminium, monoiodide

SMILES C[N+](C)(C)CCSP(OCC)(OCC)=O.[I-]Formula $C_9H_{23}NO_3PS.I$ M.Wt 383.2

Solubility DMSO: Slightly Soluble, Methanol: Slightly Soluble, Water: Slightly Soluble 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**

Echothiophate is an organophosphate and acetylcholinesterase (AChE) inhibitor. It is more active at ocular acetylcholinesterases than those isolated from rabbit brain, liver, or blood. In vivo, topical ocular administration of echothiophate (0.125 and 0.25% w/v) reduces intraocular pressure and induces miosis in dogs with normotensive eyes and those with inherited glaucoma. It also induces formation of subcapsular cataracts in cynomolgus monkeys. Formulations containing echothiophate have been used for the treatment of glaucoma.

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