

Product Data Sheet

Product Name: Malathion-d10

Cat. No.: GC91181

Chemical Properties

Cas. No. 347841-48-9

Formula $C_{10}H_9D_{10}O_6PS_2$

M.Wt 340.4

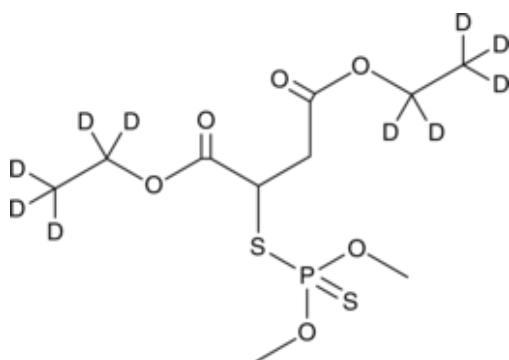
Solubility Chloroform: Slightly soluble, Methanol: Slightly soluble

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

Malathion-d₁₀ is intended for use as an internal standard for the quantification of malathion by GC- or LC-MS. Malathion is an organophosphate insecticide that inhibits acetylcholinesterase (AChE; IC₅₀s = 370 and 160 μM for free and immobilized AChE, respectively, from bovine erythrocytes).¹ It is ovicidal and adulticidal to laboratory colonies of body lice when used at concentrations of 0.001 and 0.05%, respectively.² It is toxic to rats (LD₅₀ = 750 mg/kg) and teratogenic to zebrafish when used at concentrations ranging from 2 to 3 mg/L.^{3,4} Formulations containing malathion have been used in the treatment of lice.

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

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