

Product Data Sheet

Product Name: Ethoprop-d6

Cat. No.: GC91205

Chemical Properties

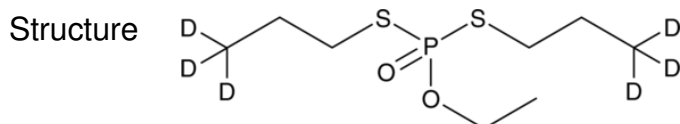
Cas. No. 2733774-72-4

Formula $C_8H_{13}D_6O_2PS_2$ M.Wt 248.4

Solubility DMSO: slightly soluble, Methanol: slightly soluble Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution: ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.



Background

Ethoprop-d6 is intended for use as an internal standard for the quantification of ethoprop by GC- or LC-MS. Ethoprop is an organothiophosphate nematicide and insecticide.^{1,2,3} It decreases the infectivity of *M. chitwoodi* and *M. hapla* second-stage juveniles (EC_{50} s = 5.6 and 6.8 µg/ml, respectively) and inhibits hatching of *M. chitwoodi* egg masses and *M. chitwoodi* and *M. hapla* free eggs (EC_{50} s = 0.2, 46, and 83.3 µg/ml, respectively).² Ethoprop (1.8 µg/g) decreases the number of *M. chitwoodi* nematodes in tomato roots when added to soil from fields without previous ethoprop exposure, but is biodegraded in soil from fields previously exposed to ethoprop. In field trials, it decreases the percentage of potato tubers damaged by wireworms when applied as granules in the planting furrow at a concentration of 3 kg AI/ha.³ Ethoprop is toxic to rats via oral administration and dermal contact (LD_{50} s = 47 and 226 mg/kg, respectively) as well as inhalation (LD_{50} = 0.123 mg/L).¹ It is also toxic to bluegill (LC_{50} = 0.32 mg/L). Formulations containing ethoprop have been used in the agricultural control of pests.

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

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