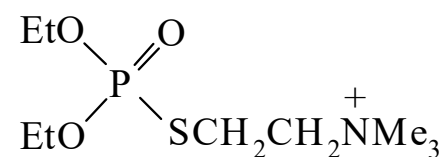




>>Entry Name: Ecothiopate(1+)

Synonym(s): 2-[(Diethoxyphosphinyl)thio]-*N,N,N*-trimethylethanaminium, 9Cl. Diethoxyphosphinylthiocholine. (2-Mercaptoethyl)trimethylammonium ester with diethyl thiophosphoric acid. Ecothiopate



CAS Registry Number: 6736-03-4

Type of Compound Code(s): AC4140

Molecular Formula: C₉H₂₃NO₃PS⁽⁺⁾

Molecular Weight: 256.325

Accurate Mass: 256.113626

Percentage Composition: C 42.17%; H 9.04%; N 5.46%; O 18.73%; P 12.08%; S 12.51%

>>Derivative: Iodide

Synonym(s): Ecothiopate iodide, BAN, INN. Phospholine iodide. Echodide. Ecodide. Oftan-Eco. 217 MI

CAS Registry Number: 513-10-0

Type of Compound Code(s): XA1300

Molecular Formula: C₉H₂₃INO₃PS

Molecular Weight: 383.23

Accurate Mass: 383.018099

Percentage Composition: C 28.21%; H 6.05%; I 33.11%; N 3.65%; O 12.52%; P 8.08%; S 8.37%

Use/Importance: Drug used in treatment of glaucoma. Irreversible cholinesterase inhibitor

Physical Description: Cryst.

Melting Point: Mp 124-124.5° (138°)

Solubility: Sol. H₂O

Other Data: Unstable in aq. soln.

Hazard & Toxicity: LD₅₀ (rat, orl) 96300 µg/kg. LD₅₀ (mus, ipr) 140 µg/kg. LD₅₀ (rbt, ocu) 250 µg/kg. V. toxic by eye absorption

References:

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