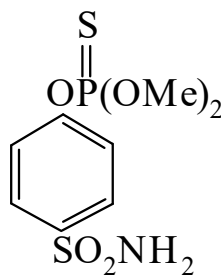




>>Entry Name: ***O*-(4-Aminosulfonylphenyl) *O,O*-dimethyl phosphorothioate**, 9CI

Synonym(s): *O,O*-Dimethyl phosphorothioate ester with *p*-hydroxybenzenesulfonamide, 8CI. *O,O*-Dimethyl *O*-4-sulfamoylphenyl phosphorothioate. Cyflee. Cythioate, BAN. Proban. CL 26691



CAS Registry Number: 115-93-5

Molecular Formula: C₈H₁₂NO₅PS₂

Molecular Weight: 297.292

Accurate Mass: 296.989451

Percentage Composition: C 32.32%; H 4.07%; N 4.71%; O 26.91%; P 10.42%; S 21.57%

Use/Importance: Vet. insecticide. Cholinesterase inhibitor

Physical Description: Solid

Melting Point: Mp 73-74°

Solubility: Insol. H₂O; sol. C₆H₆, Me₂CO, Et₂O, EtOH

Calculated Log P Data: Log P 1.23 (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 160 mg/kg

References:

U.S. Pat., 1959, *American Cyanamid*, 3 005 004; *CA*, **56**, 5887f, (*synth, activity*)

Bogan, J.A., *Drugs of Today (Barcelona)*, 1976, **12**, 249, (*rev, use, tox*)

Pesticide Manual, 10th edn., 1994, No 145

Martindale, The Extra Pharmacopoeia, 31st edn., *Pharmaceutical Press*, 1996, 1433

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., *Van Nostrand Reinhold*, 1992, CQL250