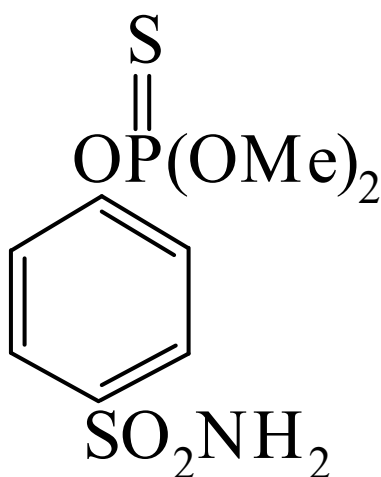




>>Entry Name: ***O*-(4-Aminosulfonylphenyl) *O,O*-dimethyl phosphorothioate**, 9CI

**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:** C<sub>8</sub>H<sub>12</sub>NO<sub>5</sub>PS<sub>2</sub>

**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. H<sub>2</sub>O; sol. C<sub>6</sub>H<sub>6</sub>, Me<sub>2</sub>CO, Et<sub>2</sub>O, EtOH

**Calculated Log P Data:** Log P 1.23 (calc)

**Hazard & Toxicity:** LD<sub>50</sub> (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