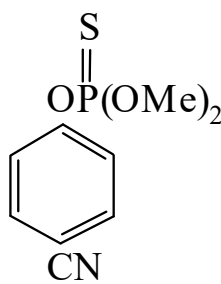




>>Entry Name: Cyanophos, BSI

Synonym(s): *O*-(4-Cyanophenyl) *O,O*-dimethyl phosphorothioate, 9CI. *O,O*-Dimethyl *O*-4-cyanophenyl thiophosphate. Cyanox. Ciafos. CYAP



CAS Registry Number: 2636-26-2

Molecular Formula: C₉H₁₀NO₃PS

Molecular Weight: 243.223

Accurate Mass: 243.011901

Percentage Composition: C 44.44%; H 4.14%; N 5.76%; O 19.73%; P 12.73%; S 13.18%

Use/Importance: Insecticide

Physical Description: Yellow to orange liq.

Melting Point: Mp 14-15°

Boiling Point: Bp_{0.09} 119-120° sl. dec.

Solubility: Spar. sol. H₂O, petrol, v. sol. MeOH, xylene

Refractive Index: n_D^{32.5} 1.5404

Other Data: Dec. in alkali; otherwise stable in storage. Converted by sunlight to the phosphate

Hazard & Toxicity: LD₅₀ (rat, orl) 215 mg/kg; LD₅₀ (rat, skn) 800 mg/kg

References:

Nishizawa, Y. *et al.*, *Agric. Biol. Chem.*, 1961, **25**, 597, (*synth, tox, use*)

Schrader, G. *et al.*, *Angew. Chem.*, 1961, **73**, 331, (*synth, use*)

Wilkins, J.P.G., *Pestic. Sci.*, 1990, **29**, 163, (*synth, gc, ms*)

Pesticide Manual, 9th edn., 1991, No. 3550

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, COQ399