

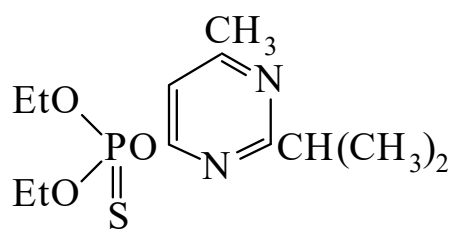


>>Entry Name: Diazinon, ANSI, BAN, BSI, ISO, JMAF

ENTRY UNDER REVIEW

Synonym(s): *O,O*-Diethyl *O*-[6-methyl-2-(1-methylethyl)-4-pyrimidinyl] phosphorothioate, 9CI. *O,O'*-Diethyl 2-isopropyl-6-methyl-4-pyrimidinyl phosphorothioate.

Dimpylate, INN. Basudin. Diazitol. Spertacide. Many other names



CAS Registry Number: 333-41-5

Molecular Formula: C₁₂H₂₁N₂O₃PS

Molecular Weight: 304.349

Accurate Mass: 304.10105

Percentage Composition: C 47.36%; H 6.95%; N 9.20%; O 15.77%; P 10.18%; S 10.54%

Use/Importance: Nonsystemic insecticide for rice and fruit trees. Cholinesterase inhibitor. Used against animal ectoparasites

Physical Description: Liq.

Boiling Point: Bp_{0.002} 83-84°

Density: d²⁰ 1.117

Calculated Log P Data: Log P 3.5 (calc)

Other Data: Slowly dec. by H₂O and dil. acids. Component of Neocidol

Hazard & Toxicity: OES: long-term 0.1 mg m⁻³; short-term 0.3 mg m⁻³ (Sk). Skin and severe eye irritant. Fatal human dose *ca.* 90-444 mg/kg. LD₅₀ (rat, orl) 66 mg/kg. LD₅₀ (rat, skn) 180 mg/kg

Supelco: R42-7060

References:

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