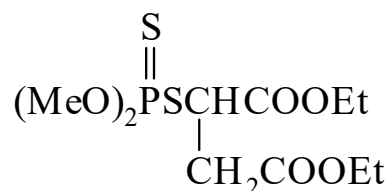




>>Entry Name: Malathion, BAN, BSI, ISO

Synonym(s): Diethyl [(dimethoxyphosphinothioyl)thio]butanedioate, 9CI. S-(1,2-Dicarbethoxyethyl) O,O-dimethyl dithiophosphate. Carbofos. Carbophos. Cythion. Prioderm. Taskil. Many other names



CAS Registry Number: 121-75-5

Molecular Formula: C₁₀H₁₉O₆PS₂

Molecular Weight: 330.362

Accurate Mass: 330.036067

Percentage Composition: C 36.36%; H 5.80%; O 29.06%; P 9.38%; S 19.41%

Use/Importance: Wide range insecticide. Cholinesterase inhibitor

Calculated Log P Data: Log P 2.4 (calc)

Supelco: 4-9050

>>Variant: (±)-form

Molecular Formula: C₁₀H₁₉O₆PS₂

Molecular Weight: 330.362

Accurate Mass: 330.036067

Percentage Composition: C 36.36%; H 5.80%; O 29.06%; P 9.38%; S 19.41%

Physical Description: Yellow liq. with characteristic odour

Melting Point: Mp -7°

Boiling Point: Bp_{0.7} 156-157° sl. dec.

Solubility: V. spar. sol. H₂O

Density: d₄²⁵ 1.23

Refractive Index: n_D²⁵ 1.4985

Other Data: Low acute toxicity

Hazard & Toxicity: Exp. carcinogen. OES: long-term 10 mg m⁻³ (Sk)

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