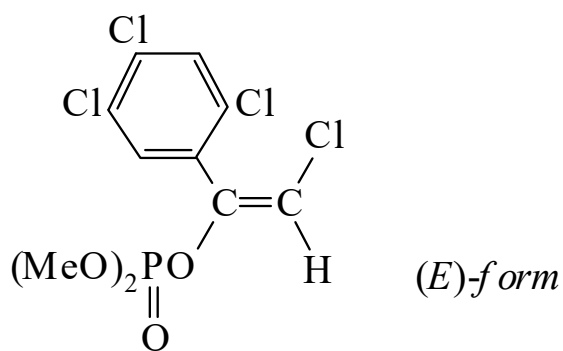




>>Entry Name: Tetrachlorvinphos, BSI, ISO

Synonym(s): 2-Chloro-1-(2,4,5-trichlorophenyl)ethenyl dimethyl phosphate, 9Cl. 2-Chloro-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate, 8Cl. 2,4,5-Trichloro- α -(chloromethylene)benzyl dimethyl phosphate. **Stirofos**, USAN. Stirifos. Gardona. Dietreen. Rabond. SD 3447. CVMP, JMAF



CAS Registry Number: 961-11-5

Molecular Formula: C₁₀H₉Cl₄O₄P

Molecular Weight: 365.963

Accurate Mass: 363.899255

Percentage Composition: C 32.82%; H 2.48%; Cl 38.75%; O 17.49%; P 8.46%

Biological Use/Importance: Insecticide. Cholinesterase inhibitor

Solubility: Sol. CHCl₃, almost insol. H₂O

Calculated Log P Data: Log P 3.01 (uncertain value) (calc)

Other Data: Unstable to base

Hazard & Toxicity: LD₅₀ (rat, orl) 4000 mg/kg. Exp. carcinogen and neoplastic agent (large doses)

Rare Chemicals Library: S2611-6

>>Variant: (*E*)-form

CAS Registry Number: 22350-76-1

Molecular Formula: C₁₀H₉Cl₄O₄P

Molecular Weight: 365.963

Accurate Mass: 363.899255

Percentage Composition: C 32.82%; H 2.48%; Cl 38.75%; O 17.49%; P 8.46%

Biological Use/Importance: Much lower biological activity than (*Z*)-form

Other Data: LC₅₀ for caterpillars 0.1%

>>Variant: (*Z*)-form

CAS Registry Number: 22248-79-9

Molecular Formula: C₁₀H₉Cl₄O₄P

Molecular Weight: 365.963

Accurate Mass: 363.899255

Percentage Composition: C 32.82%; H 2.48%; Cl 38.75%; O 17.49%; P 8.46%

Melting Point: Mp 97-98°

Hazard & Toxicity: LD₅₀ (rat, orl) 1100 mg/kg

References: