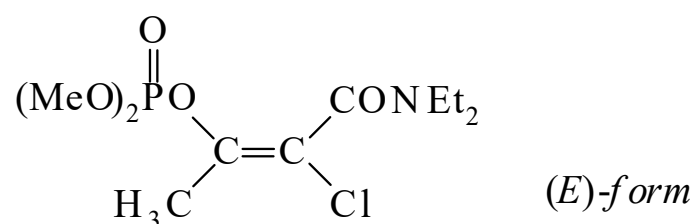




>>Entry Name: Phosphamidon, ANSI, BSI, ISO

Synonym(s): 2-Chloro-3-(diethylamino)-1-methyl-3-oxo-1-propenyl dimethyl phosphate, 9Cl. 2-Chloro-2-diethylcarbamoyl-1-methylvinyl dimethyl phosphate. Dimecron



CAS Registry Number: 13171-21-6

Molecular Formula: C₁₀H₁₉ClNO₅P

Molecular Weight: 299.69

Accurate Mass: 299.068938

Percentage Composition: C 40.08%; H 6.39%; Cl 11.83%; N 4.67%; O 26.69%; P 10.34%

Use/Importance: Systemic insecticide. Cholinesterase inhibitor

Physical Description: Pale-yellow liq.

Boiling Point: Bp_{1.5} 162°. Bp_{0.0001} 120°

Solubility: Sol. H₂O, most org. solvs.

Density: d₄²⁵ 1.21

Refractive Index: n_D²⁰ 1.4718

Hazard & Toxicity: LD₅₀ (rat, orl) 8 mg/kg. LD₅₀ (rat, skn) 125 mg/kg. Eye and skin irritant

>>Variant: (E)-form

CAS Registry Number: 297-99-4

Molecular Formula: C₁₀H₁₉ClNO₅P

Molecular Weight: 299.69

Accurate Mass: 299.068938

Percentage Composition: C 40.08%; H 6.39%; Cl 11.83%; N 4.67%; O 26.69%; P 10.34%

Other Data: Isol. by glc

Hazard & Toxicity: More toxic than (Z)-form, and more powerful anticholinesterase

>>Variant: (Z)-form

CAS Registry Number: 23783-98-4

Molecular Formula: C₁₀H₁₉ClNO₅P

Molecular Weight: 299.69

Accurate Mass: 299.068938

Percentage Composition: C 40.08%; H 6.39%; Cl 11.83%; N 4.67%; O 26.69%; P 10.34%

Other Data: Isol. by glc

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