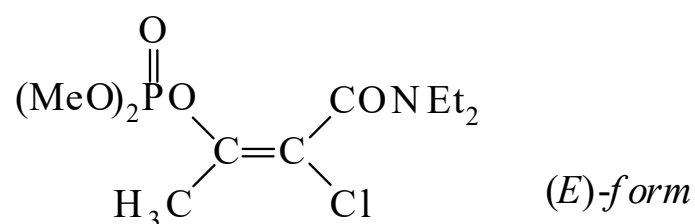




>>Entry Name: Phosphamidon, ANSI, BSI, ISO

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: C<sub>10</sub>H<sub>19</sub>ClNO<sub>5</sub>P

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<sub>1.5</sub> 162°. Bp<sub>0.0001</sub> 120°

Solubility: Sol. H<sub>2</sub>O, most org. solvs.

Density: d<sub>4</sub><sup>25</sup> 1.21

Refractive Index: n<sub>D</sub><sup>20</sup> 1.4718

Hazard & Toxicity: LD<sub>50</sub> (rat, orl) 8 mg/kg. LD<sub>50</sub> (rat, skn) 125 mg/kg. Eye and skin irritant

>>Variant: (E)-form

CAS Registry Number: 297-99-4

Molecular Formula: C<sub>10</sub>H<sub>19</sub>ClNO<sub>5</sub>P

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: C<sub>10</sub>H<sub>19</sub>ClNO<sub>5</sub>P

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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