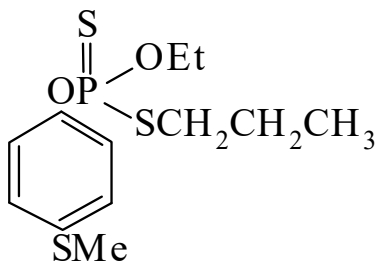




>>Entry Name: Sulprofos, BSI, ISO

Synonym(s): *O*-Ethyl *O*-[(4-methylthio)phenyl] *S*-propyl phosphorodithioate, 9Cl. Bolstar. Helothion



CAS Registry Number: 35400-43-2

Related CAS Registry Numbers(s): 58877-92-2

Molecular Formula: C₁₂H₁₉O₂PS₃

Molecular Weight: 322.453

Accurate Mass: 322.028477

Percentage Composition: C 44.70%; H 5.94%; O 9.92%; P 9.61%; S 29.83%

Hazard & Toxicity: LD₅₀ (rat, orl) 65 mg/kg; LD₅₀ (rbt, skn) 820 mg/kg

>>Variant: (+)-form

CAS Registry Number: 92642-32-5

Molecular Formula: C₁₂H₁₉O₂PS₃

Molecular Weight: 322.453

Accurate Mass: 322.028477

Percentage Composition: C 44.70%; H 5.94%; O 9.92%; P 9.61%; S 29.83%

Optical Rotation: [α]_D²⁰ +14 (c, 0.6 in CHCl₃)

Other Data: More toxic to flies than (–)-form

>>Variant: (–)-form

CAS Registry Number: 92642-33-6

Molecular Formula: C₁₂H₁₉O₂PS₃

Molecular Weight: 322.453

Accurate Mass: 322.028477

Percentage Composition: C 44.70%; H 5.94%; O 9.92%; P 9.61%; S 29.83%

Optical Rotation: [α]_D²⁰ –13.3 (c, 0.8 in CHCl₃)

>>Variant: (±)-form

CAS Registry Number: 92642-31-4

Molecular Formula: C₁₂H₁₉O₂PS₃

Molecular Weight: 322.453

Accurate Mass: 322.028477

Percentage Composition: C 44.70%; H 5.94%; O 9.92%; P 9.61%; S 29.83%

Use/Importance: Insecticide

Physical Description: Oil

Boiling Point: Bp_{0.1} 155-158°

Density: d₄²⁰ 1.2

Refractive Index: n_D²⁰ 1.5859

>>Derivative: *S*-Oxide

CAS Registry Number: 34643-47-5

Molecular Formula: C₁₂H₁₉O₃PS₃

Molecular Weight: 338.452

Accurate Mass: 338.023392

Percentage Composition: C 42.59%; H 5.66%; O 14.18%; P 9.15%; S 28.42%

Other Data: No phys. props. reported