



>>Entry Name: Thiometon, BSI

Synonym(s): S-[2-(Ethylthio)ethyl] O,O-dimethyl phosphorodithioate, 9CI. Dithiometon. Ekaton. Intrathion. Veltin

CAS Registry Number: 640-15-3

(MeO)2P(S)SCH2CH2SEt

Molecular Formula: C<sub>6</sub>H<sub>15</sub>O<sub>2</sub>PS<sub>3</sub>

Molecular Weight: 246.355

Accurate Mass: 245.997177

Percentage Composition: C 29.25%; H 6.14%; O 12.99%; P 12.57%; S 39.05%

Biological Use/Importance: Systemic agricultural insecticide and acaricide. Cholinesterase inhibitor

Physical Description: Oil

Boiling Point: Bp<sub>0.2</sub> 97°. Bp<sub>0.1</sub> 110°. Bp<sub>0.01</sub> 77°

Solubility: V. spar. sol. H<sub>2</sub>O; sol. most org. solvs.

Density: d<sub>4</sub><sup>20</sup> 1.209

Refractive Index: n<sub>D</sub><sup>20</sup> 1.5515

Other Data: Unstable in pure form; stable in non-polar solvents

Hazard & Toxicity: Skin and severe eye irritant. LD<sub>50</sub> (rat, orl) 80.5 mg/kg. LD<sub>50</sub> (rat, skn) 179 mg/kg

>>Derivative: S-Oxide

#### References:

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