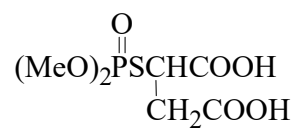




>>Entry Name: (Dimethoxyphosphinylthio)butanedioic acid, 9CI



CAS Registry Number: 95326-06-0

Molecular Formula: C₆H₁₁O₇PS

Molecular Weight: 258.189

Accurate Mass: 257.996312

Percentage Composition: C 27.91%; H 4.29%; O 43.38%; P 12.00%; S 12.42%

>>Variant: (±)-form

Molecular Formula: C₆H₁₁O₇PS

Molecular Weight: 258.189

Accurate Mass: 257.996312

Percentage Composition: C 27.91%; H 4.29%; O 43.38%; P 12.00%; S 12.42%

>>Derivative: Di-Et ester

Synonym(s): Maloxon. Malaoxon

CAS Registry Number: 1634-78-2

Molecular Formula: C₁₀H₁₉O₇PS

Molecular Weight: 314.296

Accurate Mass: 314.058912

Percentage Composition: C 38.22%; H 6.09%; O 35.63%; P 9.85%; S 10.20%

Metabolism: Mammalian and insect metab. of Malathion [GGT46-K](#)

Use/Importance: Acetylcholinesterase inhibitor. Insecticide

Physical Description: Liq.

Boiling Point: Bp_{0.1} 132°

Refractive Index: n_D²⁵ 1.4666

Hazard & Toxicity: LD₅₀ (rat, orl) 158 mg/kg. Exp. reprod. effects

References:

Ailman, D.E., *J.O.C.*, 1965, **30**, 1074-1077, (*synth*)