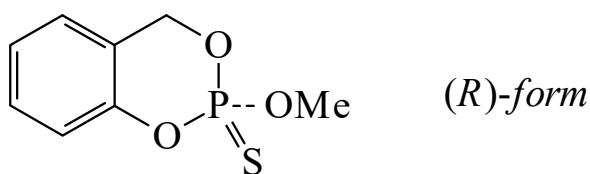




>>Entry Name: Dioxabenzofos, BSI

Synonym(s): 2-Methoxy-4*H*-1,3,2-benzodioxaphosphorin 2-sulfide, 9CI. Cyclic *O,O*-(methylene-*O*-phenylene)phosphorothioate *O*-methyl ester, 8CI. Salithion, JMAF. Fenfosphorin



CAS Registry Number: 3811-49-2

Molecular Formula: C₈H₉O₃PS

Molecular Weight: 216.197

Accurate Mass: 216.001002

Percentage Composition: C 44.44%; H 4.20%; O 22.20%; P 14.33%; S 14.83%

Hazard & Toxicity: LD₅₀ (rat, orl) 102 mg/kg

>>Variant: (*R*)-form

CAS Registry Number: 90293-16-6

Type of Compound Code(s): AC9160 AC4140

Molecular Formula: C₈H₉O₃PS

Molecular Weight: 216.197

Accurate Mass: 216.001002

Percentage Composition: C 44.44%; H 4.20%; O 22.20%; P 14.33%; S 14.83%

Optical Rotation: [α]_D +4 (c, 2.5 in MeCN)

>>Variant: (*S*)-form

CAS Registry Number: 90293-10-0

Type of Compound Code(s): AC4140 AC9160

Molecular Formula: C₈H₉O₃PS

Molecular Weight: 216.197

Accurate Mass: 216.001002

Percentage Composition: C 44.44%; H 4.20%; O 22.20%; P 14.33%; S 14.83%

Optical Rotation: [α]_D −4 (c, 0.75 in MeCN)

>>Variant: (±)-form

CAS Registry Number: 92470-71-8

Type of Compound Code(s): AC9160 AC4140

Molecular Formula: C₈H₉O₃PS

Molecular Weight: 216.197

Accurate Mass: 216.001002

Percentage Composition: C 44.44%; H 4.20%; O 22.20%; P 14.33%; S 14.83%

Biological Use/Importance: Insecticide. Cholinesterase inhibitor

Physical Description: Needles (MeOH)

Melting Point: Mp 51-53°

Other Data: Readily isom. on heating

Hazard & Toxicity: Toxic. LD₅₀ (rat, orl) 125 mg/kg

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