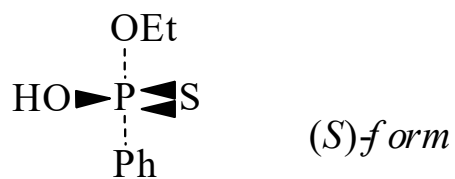




>>Entry Name: *O*-Ethyl phenylphosphonothioate, 9CI



CAS Registry Number: 6230-93-9

Related CAS Registry Numbers(s): 6230-64-4 37862-85-4 70269-57-7

Molecular Formula: C₈H₁₁O₂PS

Molecular Weight: 202.213

Accurate Mass: 202.021737

Percentage Composition: C 47.52%; H 5.48%; O 15.82%; P 15.32%; S 15.86%

General Statement: Tautomeric

Use/Importance: Metabolite of *O*-Ethyl *O*-4-nitrophenyl phenylphosphonothionate [DTB14-T](#)

>>Variant: (*S*)-form

CAS Registry Number: 67964-17-4

Molecular Formula: C₈H₁₁O₂PS

Molecular Weight: 202.213

Accurate Mass: 202.021737

Percentage Composition: C 47.52%; H 5.48%; O 15.82%; P 15.32%; S 15.86%

>>Derivative: 1-Phenylethylammonium salt

Melting Point: Mp 126°

Optical Rotation: [α]_D −6.3 (c, 1 in MeOH)

>>Derivative: Dicyclohexylammonium salt

CAS Registry Number: 76003-56-0

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 146°

Optical Rotation: [α]_D −6.8 (MeOH)

>>Derivative: Chloride

see *O*-Ethyl phenylphosphonochloridothioate, [DPL59-G](#)

>>Variant: ($\pm$)-form

CAS Registry Number: 67964-16-3

Molecular Formula: C₈H₁₁O₂PS

Molecular Weight: 202.213

Accurate Mass: 202.021737

Percentage Composition: C 47.52%; H 5.48%; O 15.82%; P 15.32%; S 15.86%

Boiling Point: Bp_{0.2} 120-7°. Bp_{0.04} 93-4°

Density: d₄²⁰ 1.22

Refractive Index: n_D²⁰ 1.5732 n_D²⁰ 1.5643

>>Derivative: Na salt

Physical Description: Cryst. (C₆H₆/petrol)

Melting Point: Mp 223-224 dec.°

>>Derivative: NH₄ salt

Physical Description: Solid

Melting Point: Mp 141-144°