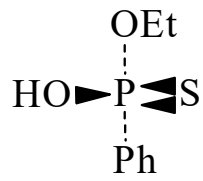
>>**Entry Name: *O*-Ethyl phenylphosphonothioate,** 9CI




(*S*)-form

**CAS Registry Number:** 6230-93-9
**Related CAS Registry Numbers(s):** 6230-64-4 37862-85-4 70269-57-7

**Molecular Formula:** $C_8H_{11}O_2PS$
**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:** $C_8H_{11}O_2PS$
**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:** $[\alpha]_D$ –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:** $[\alpha]_D$ –6.8 (MeOH)

>>**Derivative:** Chloride
*see O*-Ethyl phenylphosphonochloridothioate, DPL59-G

>>**Variant:** (±)-form

**CAS Registry Number:** 67964-16-3

**Molecular Formula:** $C_8H_{11}O_2PS$
**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:** $d_4^{20}$ 1.22
**Refractive Index:** $n_D^{20}$ 1.5732 $n_D^{20}$ 1.5643

>>**Derivative:** Na salt

**Physical Description:** Cryst. ($C_6H_6$/petrol)
**Melting Point:** Mp 223-224 dec.°

>>**Derivative:** $NH_4$ salt

**Physical Description:** Solid
**Melting Point:** Mp 141-144°