



>>Entry Name: Diethyl phenylphosphonate

Synonym(s): Diethyl benzenephosphonate

CAS Registry Number: 1754-49-0

$(\text{EtO})_2\text{P}(\text{O})\text{Ph}$

Molecular Formula: $\text{C}_{10}\text{H}_{15}\text{O}_3\text{P}$

Molecular Weight: 214.2

Accurate Mass: 214.075882

Percentage Composition: C 56.07%; H 7.06%; O 22.41%; P 14.46%

Physical Description: Liq.

Boiling Point: $\text{Bp}_{0.2}$ 96-98°

Refractive Index: n_D^{20} 1.4926

Hazard & Toxicity: LD₅₀ (mus, ipr) 790 mg/kg

References:

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Modro, T.A., *Can. J. Chem.*, 1977, **55**, 3681, (*cmr*)

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Hirao, T. *et al.*, *Synthesis*, 1981, 56, (*synth, ir*)

Nikitin, E.V. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1983, 626; *Bull. Acad. Sci. USSR, Div. Chem. Sci. (Engl. Transl.)*, 1983, 566, (*synth*)

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