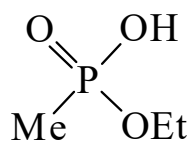




>>Entry Name: Ethyl methylphosphonate

Synonym(s): Monoethyl methylphosphonate, 9CI. Ethyl hydrogen methylphosphonate



CAS Registry Number: 1832-53-7

Molecular Formula: C₃H₉O₃P

Molecular Weight: 124.076

Accurate Mass: 124.028932

Percentage Composition: C 29.04%; H 7.31%; O 38.68%; P 24.96%

Physical Description: Liq.

Boiling Point: Bp_{0.1} 108-110°

Density: d₄²⁰ 1.19

Refractive Index: n_D²⁰ 1.4245

Aldrich: 38656-1

>>Derivative: Fluoride

see Methylphosphonofluoridic acid, [DQM94-Z](#)

>>Derivative: Chloride

see Methylphosphonochloridic acid, [DQM84-W](#)

>>Derivative: Ph ester

see Ethyl phenyl methylphosphonate, [DMT23-K](#)

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 1480B, (*nmr*)

Keay, L., *Can. J. Chem.*, 1965, **43**, 2637, (*synth*)

Petrov, K.A. *et al.*, *Zh. Obshch. Khim.*, 1965, **35**, 723; *J. Gen. Chem. USSR (Engl. Transl.)*, 1965, **35**, 723, (*synth*)

Cadogan, J.I.G. *et al.*, *J.C.S.(B)*, 1971, 1988, (*synth*)

Kryuchkov, A.A. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1978, 1985; *Bull. Acad. Sci. USSR, Div. Chem. Sci. (Engl. Transl.)*, 1978, 1746, (*props*)

Wils, E.R.J., *Fresenius' Z. Anal. Chem.*, 1990, **338**, 22, (*ms*)

Yang, Y.C. *et al.*, *J.A.C.S.*, 1990, **112**, 6621, (*synth, cmr, P-31 nmr*)