



>>Entry Name: Diethyl ethylphosphonate

CAS Registry Number: 78-38-6

EtP(O)(OEt)₂

Molecular Formula: C₆H₁₅O₃P

Molecular Weight: 166.156

Accurate Mass: 166.075882

Percentage Composition: C 43.37%; H 9.10%; O 28.89%; P 18.64%

Use/Importance: Useful synthetic intermediate. Solvent for synth. of metal complexes using stronger ligands

Physical Description: Pleasant smelling liq.

Boiling Point: Bp₁₆ 90-92°. Bp₂ 62°

Density: d₄²¹ 1.03

Refractive Index: n_D¹⁸ 1.4172

References:

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Hall, C.D. *et al.*, *J.C.S. Perkin 2*, 1977, 1232, (*pmr*)

Ernst, L., *Org. Magn. Reson.*, 1977, **9**, 35, (*pmr, P-31 nmr*)

Griffiths, W.R. *et al.*, *Phosphorus Sulfur Relat. Elem.*, 1978, **5**, 101, (*ms*)

Labintsev, V.B. *et al.*, *Zh. Org. Khim.*, 1978, **14**, 1371; *J. Org. Chem. USSR (Engl. Transl.)*, 1978, **14**, 1277, (*ms*)

Sass, S. *et al.*, *Org. Mass Spectrom.*, 1979, **14**, 257, (*ms*)

Karayannis, N.M. *et al.*, *Inorg. Chim. Acta*, 1982, **65**, L135, (*use*)

Savignac, P. *et al.*, *Synthesis*, 1982, 725, (*anion*)

Zhao, Y. *et al.*, *J.O.C.*, 1985, **50**, 2136, (*P-31 nmr*)

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