



>>Entry Name: Methyl phosphorodichloridate, 9Cl, 8Cl

Synonym(s): Methyl dichlorophosphate. Methoxydichlorophosphine oxide

CAS Registry Number: 677-24-7

MeOP(O)Cl₂

Molecular Formula: CH₃Cl₂O₂P

Molecular Weight: 148.913

Accurate Mass: 147.924771

Percentage Composition: C 8.07%; H 2.03%; Cl 47.62%; O 21.49%; P 20.80%

Physical Description: Liq.

Boiling Point: Bp₁₅ 62-64°

Density: d₄²⁵ 1.49

Refractive Index: n_D²⁰ 1.4359

Aldrich: 15821-6

References:

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Grunze, H., *Chem. Ber.*, 1959, **92**, 850, (*synth*)

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Kainosho, M., *J. Phys. Chem.*, 1970, **74**, 2853, (*pmr*)

Gonbeau, J. *et al.*, *Spectrochim. Acta A*, 1971, **27**, 1703, (*ir*)

Hornung, V. *et al.*, *Z. Anorg. Allg. Chem.*, 1971, **380**, 137, (*synth, ir, Raman*)

Oberhammer, H., *J. Mol. Struct.*, 1975, **29**, 370, (*ed*)

Furlani, C. *et al.*, *J.C.S. Dalton*, 1977, 673, (*pe*)

Pieters, G.H. *et al.*, *J. Mol. Struct.*, 1983, **102**, 27; 221; 1984, **114**, 413, (*ir, Raman, struct*)