



>>Entry Name: ***O*-Methyl phosphorodichlorodithioate**, 9Cl, 8Cl

Synonym(s): *O*-Methyl thiophosphoryl dichloride. *O*-Methyl dichlorothiophosphate

CAS Registry Number: 2523-94-6

MeOP(S)Cl₂

Molecular Formula: CH₃Cl₂OPS

Molecular Weight: 164.979

Accurate Mass: 163.901926

Percentage Composition: C 7.28%; H 1.83%; Cl 42.98%; O 9.70%; P 18.77%; S 19.44%

Physical Description: Pungent, malodorous liq.

Boiling Point: Bp₁₁ 45°

Refractive Index: n_D²⁵ 1.5124

Other Data: Isom. to *S*-Methyl phosphorodichlorodithioate [DQS66-W](#) by heat (autocatalytic, complete in 5 mins. at 130°) or in pyridine

References:

McIver, R.A. *et al.*, *Can. J. Chem.*, 1956, **34**, 1819, (*synth*)

Vasil'ev, A.F. *et al.*, *Zh. Prikl. Spektrosk.*, 1966, **5**, 524; 1967, **6**, 485; (*Engl. transl.* pp. 64, 319, 391), 1968, **8**, 102, (*ir, struct*)

Nyquist, R.A., *Spectrochim. Acta A*, 1967, **23**, 1499, (*ir, Raman*)

Whitehead, M.A. *et al.*, *J.C.S.(A)*, 1971, 1738, (*nqr*)

Shagidullin, R.R. *et al.*, *Dokl. Akad. Nauk SSSR, Ser. Khim.*, (*Engl. transl.* p. 564), 1975, **222**, 897, (*uv*)

Bezzubov, V.M. *et al.*, *Zh. Strukt. Khim.*, (*Engl. transl.* p. 79), 1976, **17**, 98, (*ed*)

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

Shermergorn, I.M. *et al.*, *Zh. Obshch. Khim.*, (*Engl. transl.* p. 65), 1983, **53**, 81, (*props*)