



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

Synonym(s): Methyl dichlorophosphite. Methoxydichlorophosphine

CAS Registry Number: 3279-26-3

MeOPCl₂

Molecular Formula: CH₃Cl₂OP

Molecular Weight: 132.913

Accurate Mass: 131.929856

Percentage Composition: C 9.04%; H 2.27%; Cl 53.35%; O 12.04%; P 23.30%

Physical Description: Air-sensitive liq.

Melting Point: Mp -91°

Boiling Point: Bp 91.5° (95-96°)

Density: d₄²⁵ 1.43

Refractive Index: n_D²⁰ 1.4772

Other Data: Pyrolysis gives ClP=CH₂

Hazard & Toxicity: Reacts violently with H₂O

Aldrich: 23522-9

Fluka: 66625

Sigma: M2515

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 911C, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 863D, (*nmr*)

Martin, D.R. *et al.*, *J.A.C.S.*, 1950, **72**, 4584, (*synth*)

Hutchins, R.O. *et al.*, *J.A.C.S.*, 1972, **94**, 9151, (*synth*)

Biryukov, I.P. *et al.*, *Zh. Obshch. Khim.*, 1972, **42**, 1223; *J. Gen. Chem. USSR (Engl. Transl.)*, 1972, **42**, 1217, (*nqr*)

Gordon, M.D. *et al.*, *J. Magn. Reson.*, 1976, **22**, 149, (*P-31 nmr*)

Ogilvie, K.K. *et al.*, *Can. J. Chem.*, 1980, **58**, 2686, (*synth, use*)

Barlos, K. *et al.*, *Chem. Ber.*, 1980, **113**, 3716, (*nqr*)

Vasil'ev, V.V. *et al.*, *Zh. Obshch. Khim.*, 1981, **51**, 2134; *J. Gen. Chem. USSR (Engl. Transl.)*, 1981, **51**, 1836, (*O-17 nmr*)