



>>Entry Name: Dimethylphosphine oxide

CAS Registry Number: 7211-39-4

Type of Compound Code(s): AC0210

Me₂P(O)H

Molecular Formula: C₂H₇OP

Molecular Weight: 78.05

Accurate Mass: 78.023452

Percentage Composition: C 30.78%; H 9.04%; O 20.50%; P 39.68%

General Statement: Tautomeric with Dimethylphosphinous acid [GGV70-X](#)

Physical Description: Cryst.

Melting Point: Mp 39-41°

Boiling Point: Bp₆ 65-67°. Bp₁ 54°

Aldrich: 47040-6

References:

Hays, H.R., *J.O.C.*, 1968, **33**, 3690, (*synth, P-31 nmr, ir, pmr*)

Seel, F. *et al.*, *Chem. Ber.*, 1972, **105**, 406, (*synth, ms, ir*)

Kleiner, H.J., *Annalen*, 1974, 751, (*synth*)

Elbel, S. *et al.*, *J.C.S. Dalton*, 1976, 1762, (*pe*)

Seel, F. *et al.*, *Z. Anorg. Allg. Chem.*, 1976, **423**, 67, (*ms*)

Sarukhanov, M.A. *et al.*, *Zh. Neorg. Khim.*, 1984, **29**, 1670; *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1984, **29**, 957, (*synth, ir, Raman*)