



>>Entry Name: Dimethyl phosphorochloridate, 9Cl, 8Cl

Synonym(s): Dimethyl phosphoryl chloride. Dimethoxyphosphinyl chloride. Dimethyl chlorophosphate

CAS Registry Number: 813-77-4

Type of Compound Code(s): AC4040 AC4020

(MeO)<sub>2</sub>P(O)Cl

Molecular Formula: C<sub>2</sub>H<sub>6</sub>ClO<sub>3</sub>P

Molecular Weight: 144.494

Accurate Mass: 143.974309

Percentage Composition: C 16.62%; H 4.19%; Cl 24.54%; O 33.22%; P 21.44%

Use/Importance: Fireproofing agent. Synthetic intermediate

Physical Description: Liq.

Boiling Point: Bp<sub>25</sub> 80°

Refractive Index: n<sub>D</sub><sup>25</sup> 1.4107

Aldrich: 43789-1

#### References:

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

Sosnovsky, G. *et al.*, *J.O.C.*, 1969, **34**, 968, (*synth*)

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

Pritchard, J.G., *Org. Mass Spectrom.*, 1970, **3**, 163, (*ms*)

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

Maier, L., *Helv. Chim. Acta*, 1973, **56**, 492, (*P-31 nmr*)