



>>Entry Name: Methylphosphonothioic dichloride, 9Cl

Synonym(s): Methylthiophosphonic dichloride

CAS Registry Number: 676-98-2

MeP(S)Cl₂

Molecular Formula: CH₃Cl₂PS

Molecular Weight: 148.98

Accurate Mass: 147.907011

Percentage Composition: C 8.06%; H 2.03%; Cl 47.59%; P 20.79%; S 21.52%

Use/Importance: Reagent for detn. of enantiomeric excess in chiral amines

Physical Description: Liq. with pungent odour

Boiling Point: Bp 177-178°. Bp₁₉ 49-51°

Refractive Index: n_D²⁰ 1.5428

Hazard & Toxicity: Corrosive and irritating to all tissues

Aldrich: 39000-3

References:

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Nesterov, L.V. *et al.*, *Zh. Obshch. Khim.*, 1970, **40**, 1237; *J. Gen. Chem. USSR (Engl. Transl.)*, 1970, **40**, 1228, (*ir, pmr, P-31 nmr*)

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

Khairullin, V.K. *et al.*, *Zh. Obshch. Khim.*, 1978, **48**, 1993; *J. Gen. Chem. USSR (Engl. Transl.)*, 1978, **48**, 1813, (*synth*)

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