



>>Entry Name: Diphenylphosphinic chloride, 8Cl

CAS Registry Number: 1499-21-4

Type of Compound Code(s): AC6020

Ph₂P(O)Cl

Molecular Formula: C₁₂H₁₀ClOP

Molecular Weight: 236.637

Accurate Mass: 236.015779

Percentage Composition: C 60.91%; H 4.26%; Cl 14.98%; O 6.76%; P 13.09%

Use/Importance: Useful protecting reagent for peptide amino groups, and activating agent in peptide synth. Used in synth. of β-lactams from β-amino acids

Physical Description: Oily liq.

Boiling Point: Bp_{0.25} 147°

Density: d₄²⁰ 1.28

Refractive Index: n_D²⁰ 1.6091

Aldrich: 23023-5

Fluka: 43157

Sigma: D6019

References:

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Sosnovsky, G. *et al.*, *J.O.C.*, 1968, **33**, 2325, (*ir*)

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Sergienko, L.M. *et al.*, *Zh. Obshch. Khim.*, 1979, **49**, 317; 1980, **50**, 1958; *J. Gen. Chem. USSR (Engl. Transl.)*, 1979, **49**, 275; 1980, **50**, 1578, (*uv*)

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Horner, L. *et al.*, *Phosphorus Sulfur Relat. Elem.*, 1981, **11**, 157; 349, (*props, use*)

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Ramage, R. *et al.*, *J.C.S. Perkin 1*, 1985, 1217, (*synth, ir, pmr, cmr, P-31 nmr*)

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