



>>Entry Name: Phenyldivinylphosphine

Synonym(s): Diethenylphenylphosphine, 9Cl

CAS Registry Number: 26681-88-9

Related CAS Registry Numbers(s): 115411-23-9 115411-24-0

PhP(CH=CH₂)₂

Molecular Formula: C₁₀H₁₁P

Molecular Weight: 162.171

Accurate Mass: 162.059837

Percentage Composition: C 74.06%; H 6.84%; P 19.10%

Use/Importance: Ligand for Cr, Ni, Mo, Pd, Pt, W and Rh

Physical Description: Viscous yellow liq.

Boiling Point: Bp_{0.5} 55°

>>Derivative: Oxide

CAS Registry Number: 13815-96-8

Molecular Formula: C₁₀H₁₁OP

Molecular Weight: 178.17

Accurate Mass: 178.054752

Percentage Composition: C 67.41%; H 6.22%; O 8.98%; P 17.38%

Physical Description: Cryst. (cyclohexane)

Melting Point: Mp 50-51°

Boiling Point: Bp₂ 130-130.5°

References:

Maier, L. *et al.*, *J.A.C.S.*, 1957, **79**, 5884, (*synth*)

Bundgaard, T. *et al.*, *Tet. Lett.*, 1972, 3353, (*cmr*)

Levin, Ya.A. *et al.*, *Zh. Obshch. Khim.*, 1972, **42**, 1166; *J. Gen. Chem. USSR (Engl. Transl.)*, 1972, **42**, 1156, (*oxide*)

Collins, D.J. *et al.*, *Aust. J. Chem.*, 1974, **27**, 841, (*oxide, use*)

Brandi, A. *et al.*, *J.O.C.*, 1991, **56**, 4383, (*sulfide, P-31 nmr*)