



>>Entry Name: Bis(4-methoxyphenyl)phosphine, 9CI

Synonym(s): Di-*p*-anisylphosphine

CAS Registry Number: 84127-04-8

Related CAS Registry Numbers(s): 39864-55-6 118854-35-6

Molecular Formula: C₁₄H₁₅O₂P

Molecular Weight: 246.245

Accurate Mass: 246.080967

Percentage Composition: C 68.29%; H 6.14%; O 12.99%; P 12.58%

Physical Description: Solid at r.t.

Boiling Point: Bp_{0.15} 145-148°

Other Data: Li deriv. exhibits yellow chemiluminescence

>>Derivative: Oxide

CAS Registry Number: 15754-51-5

Molecular Formula: C₁₄H₁₅O₃P

Molecular Weight: 262.244

Accurate Mass: 262.075882

Percentage Composition: C 64.12%; H 5.77%; O 18.30%; P 11.81%

Physical Description: Cryst. (Me₂CO/Et₂O)

Melting Point: Mp 115-116°

pKa Value: pK_a 21.8 (25°,DMSO)

Other Data: Tautomeric with bis(4-methoxyphenyl)phosphinous acid

References:

Strecker, R.A. *et al.*, *J.A.C.S.*, 1973, **95**, 210, (*synth*)

Kapoor, P.N. *et al.*, *Helv. Chim. Acta*, 1977, **60**, 2824, (*oxide, synth, ir*)

Tsvetkov, E.N. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1978, 1981; *Bull. Acad. Sci. USSR, Div. Chem. Sci. (Engl. Transl.)*, 1978, 1743, (*oxide*)

Dubois, R.A. *et al.*, *Organometallics*, 1986, **5**, 466, (*synth*)