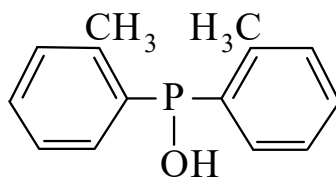




>>Entry Name: Bis(2-methylphenyl)phosphinous acid, 9Cl

Synonym(s): Di-*o*-tolylphosphinous acid



Related CAS Registry Numbers(s): 85829-36-3

Molecular Formula: C₁₄H₁₅OP

Molecular Weight: 230.246

Accurate Mass: 230.086052

Percentage Composition: C 73.03%; H 6.57%; O 6.95%; P 13.45%

General Statement: The free acid exists as the phosphoryl tautomer. See Bis(2-methylphenyl)phosphine [DNS33-P](#)

>>Derivative: Et ester

Synonym(s): Ethyl bis(2-methylphenyl)phosphinite

CAS Registry Number: 13685-43-3

Molecular Formula: C₁₆H₁₉OP

Molecular Weight: 258.299

Accurate Mass: 258.117352

Percentage Composition: C 74.40%; H 7.41%; O 6.19%; P 11.99%

Physical Description: Liq.

>>Derivative: Butyl ester

Synonym(s): Butyl bis(2-methylphenyl)phosphinite

Molecular Formula: C₁₈H₂₃OP

Molecular Weight: 286.353

Accurate Mass: 286.148652

Percentage Composition: C 75.50%; H 8.10%; O 5.59%; P 10.82%

Physical Description: Liq.

Boiling Point: Bp_{2.5} 154° (lit. gives a pressure range)

>>Derivative: Chloride

Synonym(s): Chlorodi-*o*-tolylphosphine

CAS Registry Number: 36042-94-1

Molecular Formula: C₁₄H₁₄ClP

Molecular Weight: 248.691

Accurate Mass: 248.052164

Percentage Composition: C 67.62%; H 5.67%; Cl 14.26%; P 12.45%

Physical Description: Solid

Melting Point: Mp 36°

Boiling Point: Bp₇ 179-183°. Bp_{0.03} 120-122°

References:

Weinberg, K.G., *J.O.C.*, 1975, **40**, 3586, (*chloride*)

McEwen, W.E. *et al.*, *J.A.C.S.*, 1978, **100**, 7304, (*chloride*)

Shvets, A.A. *et al.*, *Zh. Obshch. Khim.*, 1978, **48**, 232; *J. Gen. Chem. USSR (Engl. Transl.)*, 1978, **48**, 208, (*chloride, butyl ester*)

Harger, M.J.P., *J.C.S. Perkin 2*, 1980, 154, (*synth*)

Clarke, P.W. *et al.*, *J. Organomet. Chem.*, 1981, **217**, 51, (*chloride, synth, pmr, cmr, P-31 nmr*)