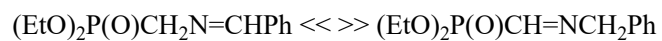




>>Entry Name: Diethyl [(benzylideneamino)methyl]phosphonate

Synonym(s): Diethyl [[(phenylmethylene)amino]methyl]phosphonate, 9Cl. Diethyl [(benzylimino)methyl]phosphonate

CAS Registry Number: 50917-73-2



Molecular Formula:  $\text{C}_{12}\text{H}_{18}\text{NO}_3\text{P}$

Molecular Weight: 255.253

Accurate Mass: 255.102431

Percentage Composition: C 56.47%; H 7.11%; N 5.49%; O 18.80%; P 12.13%

Use/Importance: Wittig-Horner reagent employed in the synth. of  $\alpha\beta$ -unsat. imines, and thence branched-chain ketones

Physical Description: Liq.

Boiling Point:  $\text{Bp}_{0.5}$  170°

#### References:

Ratcliffe, R.W. *et al.*, *Tet. Lett.*, 1973, 4645, (*synth, use*)

Dehnel, A. *et al.*, *Bull. Soc. Chim. Fr.*, Part II, 1978, 95, (*use*)

Martin, S.F. *et al.*, *J.O.C.*, 1979, **44**, 3391, (*use*)

*Fieser and Fieser's Reagents for Organic Synthesis*, Wiley, 1981, **9**, 161; **11**, 178; **12**, 185, (*use*)

Martin, S.F. *et al.*, *J.A.C.S.*, 1984, **106**, 6431, (*use*)

Morimoto, T. *et al.*, *Chem. Lett.*, 1985, 1371, (*synth*)

Heymes, A. *et al.*, *Synthesis*, 1987, 245, (*pmr*)