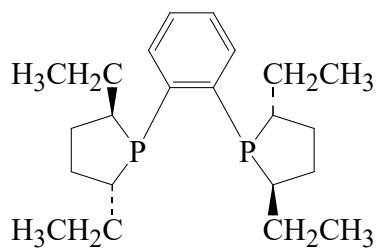




>>Entry Name: 1,2-Bis(2,5-diethylphospholano)benzene

Synonym(s): 1,1'-(1,2-Phenylene)bis[2,5-diethylphospholane], 9Cl. Ethyl-DuPHOS



Related CAS Registry Numbers(s): 136779-28-7

Molecular Formula: $C_{22}H_{36}P_2$

Molecular Weight: 362.474

Accurate Mass: 362.229224

Percentage Composition: C 72.90%; H 10.01%; P 17.09%

>>Variant: (all-*R*)-form

CAS Registry Number: 136705-64-1

Molecular Formula: $C_{22}H_{36}P_2$

Molecular Weight: 362.474

Accurate Mass: 362.229224

Percentage Composition: C 72.90%; H 10.01%; P 17.09%

Use/Importance: Complexes with Rh to form an asymmetric hydrogenation catalyst

Physical Description: Oil

Boiling Point: $B_{p0.045}$ 138-145°

Optical Rotation: $[\alpha]_D^{25}$ -265 (c, 1 in hexane)

References:

Burk, M.J. *et al.*, *J.A.C.S.*, 1992, **114**, 6266-6267; 1993, **115**, 10125-10138, (*synth, pmr, cmr, P-31 nmr, ms, use*)

Burk, M.J. *et al.*, *Tetrahedron*, 1994, **50**, 4399-4428, (*use*)

Burk, M.J. *et al.*, *Acc. Chem. Res.*, 2000, **33**, 363-372, (*rev, use*)