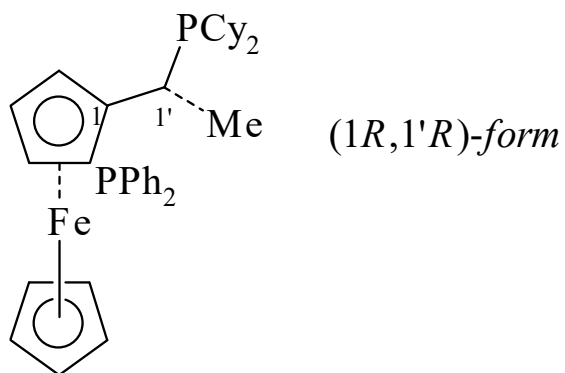




>>Entry Name: 1-[1-(Dicyclohexylphosphino)ethyl]-2-(diphenylphosphino)ferrocene, 13Cl

Synonym(s): 1-[2-(Diphenylphosphino)ferrocenyl]ethylidicyclohexylphosphine



Molecular Formula: C₃₆H₄₄FeP₂

Molecular Weight: 594.538

Accurate Mass: 594.226763

Percentage Composition: C 72.73%; H 7.46%; Fe 9.39%; P 10.42%

>>Variant: (1R,1'R)-form

CAS Registry Number: 155806-35-2

Molecular Formula: C₃₆H₄₄FeP₂

Molecular Weight: 594.538

Accurate Mass: 594.226763

Percentage Composition: C 72.73%; H 7.46%; Fe 9.39%; P 10.42%

Source/Synthesis: Synth. from Cy₂PH/HOAc and 1-[1-(Dimethylamino)ethyl]-2-(diphenylphosphino)ferrocene [GJC12-L](#)

Use/Importance: Used in Rh-catalysed asymmetric hydrogenation and hydroboration and in Pd-catalysed allylic alkylation, and in copolym. of propene and CO

Physical Description: Cryst. (EtOH)

Optical Rotation: [α]_D²² -346 (c, 0.6 in CHCl₃)

References:

Togni, A. *et al.*, *J.A.C.S.*, 1994, **116**, 4062, (*synth, pmr, P-31 nmr, use*)

Bronco, S. *et al.*, *Helv. Chim. Acta*, 1995, **78**, 883, (*use*)