Chiral Cyclopentadiene Ligands for the Asymmetric Allylation of Benzamides

Category

Metal-Catalyzed
 Asymmetric
 Synthesis and
 Stereoselective
 Reactions

Key words

cyclopentadiene

C–H allylation

rhodium(III)

benzamides

SYNFACT
of the month

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Selected examples:

Synthesis of the catalyst:

Significance: A class of chiral Cp ligands with tunable steric parameters is reported and used in the Rh(III)-catalyzed allylation of *N*-methoxybenzamides. The obtained yields are good and the enantioselectivities excellent.

Comment: Cyclopentadienyl (Cp) ligands are among the most versatile and frequently used ligands to access robust and highly catalytically active transition-metal complexes. However, there are only a few chiral Cp ligands reported so far.

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