

Enantioselective Hydrosilylation with a Chiral *N*-Heterocyclic Carbene Complex of Rhodium(I) [1]

Sandra C. Zinner^a, Mei Zhang-Preße^b, Wolfgang A. Herrmann^{a,b}, and Fritz E. Kühn^{a,b}

Contribution of the ^a Chair of Inorganic Chemistry and ^b Molecular Catalysis, Catalysis Research Center of the Technische Universität München, Lichtenbergstr. 4, 85747 Garching, Germany

Reprint requests to Fritz E. Kühn. E-mail: fritz.kuehn@ch.tum.de

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Dedicated to Professor Hubert Schmidbaur on the occasion of his 75th birthday

Both enantiomers of the chiral rhodium-NHC complex [(4*X*, 5*X*)-1,3-bis[2,6-diisopropyl-phenyl]-4,5-ditert-butylimidazolidine-2-ylidene][1,5-cyclooctadiene]-iodo-rhodium(I) with *X* = *R*, *S* were applied as catalysts for the asymmetric hydrosilylation of prochiral ketones. The influence of employed solvent, substrate, silane, and catalyst enantiomer on the catalytic activity and the enantioselectivity of the desired product was investigated.

Key words: Homogeneous Catalysis, Rhodium Complex, Enantioselective Hydrosilylation, *N*-Heterocyclic Carbene Ligands