A New Chiral Silicon Group for Enantioselective Synthesis

Original title / Originaltitel
Eine neue chirale Silicium-Gruppe für die enantioselektive Synthese

Summary / Zusammenfassung
A new chiral silicon group is developed to be used as a chiral auxiliary for the enantioselective synthesis of silicon-free products. The new silicon group should be used simultaneously as a protective moiety as well as a stereodirecting unit. Particularly addition reactions to silylated hydroxy carbonyl compounds are investigated.

Publications / Publikationen
New Silicon Groups as Potential Chiral Auxiliaries. Synthesis and Highly Selective Chiral 1,6-Induction in 1,2-Additions to Acylsilanes

A Chiral Silyl Ether as Auxiliary for the Asymmetric Nucleophilic Addition to a- and b-Silyloxy Carbonyl Compounds

Stereoconvergent Preparation of Chiral Vinylsilanes by Cuprate Substitution of a-Acetoxyallylsilanes. Application to the Synthesis of (S)-(+)Bishomomanicone

Enantioselective Synthesis of Di-, Tri-, and Tetrasubstituted Allenylsilanes

Preparation of a 'Si-Centered' Chiral Auxiliary by Resolution

Project Leadership and Contacts / Projektleitung und Kontakte
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