Asymmetric Synthesis of Amino Alcohols Using a Catalytically Formed Chiral Auxiliary

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Comment: Key to success was the use of a truncated monophosphine Trost-type ligand. Interestingly, all four stereoisomers of the product could be obtained by the choice of the chiral ligand and the substituents on the readily available propargylic amines. It is noteworthy that the resulting diaryl-substituted amino alcohols are found in many bioactive molecules.