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2015-54/33 H-H LiN(SiMe₃)₂ HN(SiMe₃)₂

The trapping of H₂ ...

... with a pyridylidene generated from a pyridinium salt and base is reported by A. Pfaltz, P. Mauleón et al. in their Communication on page 9542 ff. By coupling H_2 activation with subsequent hydride transfer to an imine, a catalytic process was established. Treatment of the N-phenylimine of phenyl trifluoromethyl ketone with N-mesityl-3,5-bis(2,6-dimethylphenyl)pyridinium triflate and LiN(SiMe₃)₂ under 50 bar of H_2 resulted in high conversion into the corresponding amine.

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