

# Asymmetric Synthesis of Pyrido[1,2-*c*]pyrimidinones

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*Z. Naturforsch.* **2009**, *64b*, 653 – 661; received April 16, 2009

*Dedicated to Professor Gerhard Maas with best wishes on the occasion of his 60<sup>th</sup> birthday*

“Asymmetric Electrophilic  $\alpha$ -Amidoalkylation” reactions with a chiral alkylaminocarbonyl unit as chiral auxiliary are used for the stereoselective synthesis of 2-substituted piperidine derivatives. Intramolecular condensation of the nitrogen of the aminocarbonyl group with the keto function present in the newly introduced side chain of the amidoalkylation products results in the formation of hexahydropyrido[1,2-*c*]pyrimidinones. After reduction and removal of the *N*-alkyl moiety of the chiral auxiliary the target compounds, enantiopure octahydro-1*H*-pyrido[1,2-*c*]pyrimidin-1-ones, are obtained.

*Key words:*  $\alpha$ -Amidoalkylation, Asymmetric Synthesis, Heterocycles, *N*-Acyliminium Ion, Pyridopyrimidinone