

Abstract

This bachelor thesis is focused on the application of organocatalytic approach for the synthesis of enantiomerically pure substituted piperidine-2-ones from synthetically easily available starting materials and commercially available secondary amine.

Substituted piperidine-2-ones are prepared in good yields (49-99 %) and excellent enantioselectivities (93–96 % ee).

The key-intermediate in synthesis of (+)-femoxetine is prepared and the synthesis is formally finalised in the overall yield 23 % and enantiomeric excess of 95 %.