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DESIGN OF NOVEL ASYMMETRIC ORGANOCATALYSTS

Kalnins, T.; Shubin, K.; Suna, E.

Aizkraukles str. 21, LV-1006, Riga, Latvia

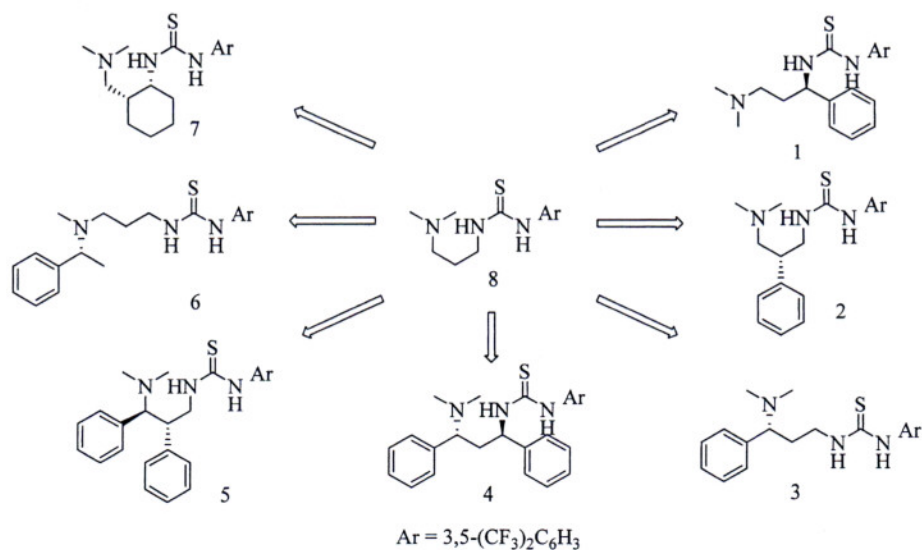
Latvian Institute of Organic Synthesis

Latvia

toms@osi.lv

Chiral aminothiureas, possessing ethylenediamine moiety, have gained attention as excellent organocatalysts for asymmetric Michael reaction. Herein we report synthesis and application of propylenediamine moiety containing aminothiureas.

A series of chiral thioureas **1-7** has been synthesized to establish relationship between position of catalyst's chiral center and level of enantiocontrol.



The synthesized organocatalysts were tested in Michael reaction using various dicarbonyl substrates. The best results were obtained with catalysts **4** (99%, 36% ee) and **7** (85%, 68% ee), using ethyl benzoylacetate as dicarbonyl source.

