This bachelor thesis is focused on preparation of C-9 amino derivatives of *Cinchona* alkaloids and derived bifunctional squaramide catalysts, which are used as organocatalysts in a wide variety of chemical transformations leading to enantiomerically pure compounds.

The first part deals with choosing the most efficient method for the preparation of C-9 amino derivates of *Cinchona* alkaloids and the synthesis of four selected examples. In the second part, the prepared derivates are used for the synthesis of bifunctional squaramide catalysts, which are further tested in newly designed cyclization reactions.