

Abstract

This bachelor's thesis focuses on the synthesis of compounds containing a urea moiety, derived from cyclopent-2-en-1-one, intended as precursors for the preparation of cyclic and spirocyclic compounds. The first part of the thesis describes the preparation of the starting amines bearing different substituents on the triple bond. The following section covers the preparation of urea derivatives from these amines. The final part presents the attempts to achieve cyclization, both with isolated ureas and through a one-pot procedure.

Key words: synthesis, spirocyclic compounds, urea, catalysis