

Abstract

This bachelor's thesis focuses on the synthesis of a polycarbocyclic compound with naphthalene core and the following oxidation to the corresponding *ortho*-naphthoquinone. The naphthalene and naphthoquinone skeleton can be found in many natural products with interesting biological properties. This thesis extends the scope of a method developed by our group for the synthesis of naturally occurring *ortho*-naphthoquinones. The key step of the synthesis was to form an aromatic ring using the Heck reaction.

Keywords: synthesis, polycyclic compounds, naphthalenes, catalysis, Heck reaction