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2016

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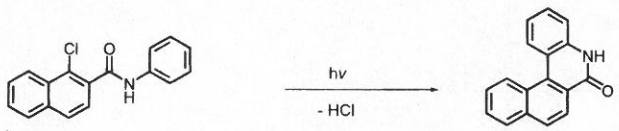
Azahelicenes and their derivatives have gained interest, because of their remarkable properties and chemical behavior predetermining them for different applications (optoelectronics, light-harvesting, or asymmetric catalysis).[1]

This work is focused on exploration of photocyclization possibilities of various aromatic amides to amidoazahelicenes (*e.g.* **2**, Scheme 1) — azahelicene precursors. This well-known methodology[2] has been used for cyclization of small molecules only and we have found it useful also for preparation of large helicene-like systems. Various aromatic *ortho*-substituted (R = –OMe or –Cl) amides (*e.g.* **1**, Scheme 1) were prepared in order to study their cyclization under UV-irradiation. These findings will be utilized for the synthesis of other amidoazahelicenes.



1 2

Scheme 1. Photocyclization of aromatic amide

References

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