

Summary

On the dissertation entitled „SYNTHESIS AND REACTIONS OF FORMYLATED N PIVALOYL PHENYLETHYL- AND BENZYLAMINES”

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In the first part of my doctoral research 1,8-disubstituted 1,2,3,4-tetrahydroisoquinolines were synthesized *via* formylated *N*-pivaloylphenylethylamine intermediates. In the second part of my doctoral research, we investigated the acid-catalyzed rearrangement reactions of formylated *N*-pivaloylbenzylamines with different substitution patterns.

Full scientific publications related to the PhD dissertation

- I. Csilla Hargitai, Tamás Nagy, Judit Halász, Gyula Simig, Balázs Volk. Synthesis of 8-fluoro-3,4-dihydroisoquinoline and its transformation to 1,8-disubstituted tetrahydroisoquinolines. *Molecules*, **2018**, *23*, 1280–1290; doi: 10.3390/molecules23061280. IF (2018): 3,060 [HCS: 100 %]
- II. Csilla Hargitai, Tamás Nagy, Judit Halász, Györgyi Koványi-Lax, Gábor Németh, Gyula Simig, Balázs Volk. Synthesis and further transformations of 8-chloro-3,4-dihydroisoquinoline. *Tetrahedron*, **2018**, *74*, 7009–7017; doi: 10.1016/j.tet.2018.10.016. IF (2018): 2,379 [HCS: 100 %]
- III. Csilla Hargitai, Tamás Nagy, Judit Halász, Gyula Simig, Balázs Volk. Study on the lithiation reaction of 3-diisopropylcarbamoyl-*N*-pivaloylphenylethylamine. *Periodica Polytechnica Chemical Engineering*, **2019**, *63*, 629–635; doi: 10.3311/PPch.13770. IF (2018): 1,382 [HCS: 100 %]
- IV. Csilla Hargitai, Györgyi Koványi-Lax, Tamás Nagy, Péter Ábrányi-Balogh, András Dancsó, Judit Halász, Gábor Tóth, Gyula Simig, Balázs Volk. Interesting transformations of methylenedioxy-substituted *ortho*-(pivaloylaminomethyl)-benzaldehyde. *Monatshefte für Chemie - Chemical Monthly*, **2019**, *150*, 1121–1125; doi: 10.1007/s00706-019-02395-6. IF (2018): 1,501 [HCS: 100 %]

Further publication:

Bence Szilágyi, Csilla Hargitai, Ádám A. Kelemen, Anita Rác, György G. Ferenczy, Balázs Volk, György M. Keserű. Synthesis and biochemical evaluation of lid-open D-amino acid oxidase inhibitors. *Molecules*, **2019**, *24*, 290–297; doi: 10.3390/molecules24020290. IF (2018): 3,060 [HCS: 25 %]