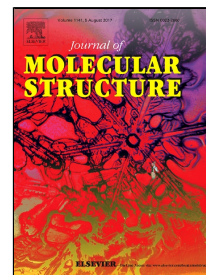


Accepted Manuscript

Sulfonated polynaphthalene as an effective and reusable catalyst for the one-pot preparation of amidoalkyl naphthols: DFT and spectroscopic studies

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PII: S0022-2860(17)30592-6
DOI: 10.1016/j.molstruc.2017.05.010
Reference: MOLSTR 23751
To appear in: *Journal of Molecular Structure*
Received Date: 26 December 2016
Revised Date: 07 April 2017
Accepted Date: 04 May 2017

Please cite this article as: Seied Ali Pourmousavi, parvin moghimi, Fatemeh Ghorbani, Mehdi Zamani, Sulfonated polynaphthalene as an effective and reusable catalyst for the one-pot preparation of amidoalkyl naphthols: DFT and spectroscopic studies, *Journal of Molecular Structure* (2017), doi: 10.1016/j.molstruc.2017.05.010

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Highlights

- The application of Sulfonated polynaphthalene (S-PNP) on the synthesis of amidoalkyl naphthols was investigated.
- The thermochemical parameters of reactions were investigated.
- Optimized structure, molecular orbitals, electrostatic potential (ESP) map of three amidoalkyl naphthol derivatives was studied.
- FT-IR spectra and ^1H nuclear magnetic resonance (NMR) spectra of selected amidoalkyl naphthols were recorded and compared with the theoretical results.

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