

Supramolecular Chemistry 2009 vol.21 N7, pages 564-571

---

## Regioselective alkylation of the lower rim of p-ter-butylthiacalix[4]arene with n-(p-nitrophenyl)- $\alpha$ -bromoacetamide

Stoikov I., Ibragimova D., Shestakova N., Krivolapov D., Litvinov I., Antipin I., Konovalov A., Zharov I.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

---

### Abstract

The preparation of partially substituted thiacalix[4]arenes 2-6 has been accomplished by conducting the reaction of the thiacalixarene 1 with N-(p-nitrophenyl)- $\alpha$ -bromoacetamide in acetone or acetonitrile in the presence of  $M_2CO_3$  ( $M = Na, K$  and  $Cs$ ). The influence of the reaction conditions (temperature, time, solvent, ratio of the reagents and the nature of the alkali metal carbonate) on regio- and stereoselectivity of this reaction is described. © 2009 Taylor & Francis.

<http://dx.doi.org/10.1080/10610270802438820>

---

### Keywords

Conformations, Regioselective alkylation, Secondary amides, Synthesis, Thiacalix[4]arene