## Synthesis of p-tert-butylthiacalix[4]arene derivatives with 1-aminobis(methylenephosphonic acid) fragments by Moedritzer-Irani reaction

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## **Abstract**

© 2016 Taylor & Francis Group, LLC.Novel tetra-substituted p-tert-butylthicalix[4]arene derivatives with 1-aminobis(methylenephosphonic) acid fragments at the lower rim in 1,3-alternate conformation were synthesized byMoedritzer-Irani reaction with good yields. It was shown that thiacalixarene derivatives containing both amino and hydroxyl groups at the lower rim did not undergo Moedritzer-Irani reaction.

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## **Keywords**

Moedritzer-Irani reaction, phosphorylation, synthesis, Thiacalix[4]arene, α-aminophosphonate