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

Shibaeva K., Nazarova A., Stoikov I.

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

Abstract

© 2016 Taylor & Francis Group, LLC. Novel tetra-substituted p-tert-butylthiacalix[4]arene derivatives with 1-aminobis(methylenephosphonic) acid fragments at the lower rim in 1,3-alternate conformation were synthesized by Moedritzer-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