

## Synthesis of new types of PAMAM-dendrimers based on *p*-*tert*-butylthiacalix[4]arene

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### Abstract

For the first time *p*-*tert*-butylthiacalix[4]arene functionalized at the lower rim with *N*-(2-aminoethyl)propanamide and *N*-(3-(3-aminopropylamino)propyl)propanamide fragments in *cone* and *1,3-alternate* conformations have been synthesized. The structure and composition of the new derivatives were characterized by a set of physical and chemical methods. It has been shown that the high reaction rates and quantitative product yields of aminolysis makes the initial esters good building blocks for introducing shorter chain oligoamino groups into the thiacalix[4]arene platform.