

Secondary amine derivatives of p-tert-butylthiacalix[4]arene: Synthesis and molecular recognition of phthalic acid

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Abstract

© ISUCT Publishing. New tetrasubstituted at the lower rim p-tert-butylthiacalix[4]arenes in 1,3-alternate conformation containing 2-, 3-, and 4-picolylamine fragments were synthesized. It was shown that the macrocycles synthesized are able to selectively bind phthalic acid in the series of dicarboxylic (oxalic, malonic, succinic, adipic, glutaric, fumaric, maleic, isophthalic and terephthalic) and hydroxy (glycolic and tartaric) acids.

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Keywords

Dicarboxylic acid, Molecular recognition, Synthesis, Thiacalix[4]arenes