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New host molecules based on the thiacalix[4]arene platform for cation recognition

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Abstract

The synthesis of four new tetra- and di-carbonyl p-tert-butyl thiacalix[4]arenes is reported. The three tetracarboxyl compounds differ as conformational isomers (cone, partial cone, and 1,3-alternate). The influence of the alkali metal ion templates on the formation of the different conformational isomers of the compound was studied by the solvent extraction method. © 2005 Springer Science+Business Media, Inc.

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Keywords

Conformation, Extraction, Synthesis, Thiacalixarenes