Synthesis and extraction properties of preorganized host molecules based on tetraamides of thiacalix[4]arene

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Abstract

Template effect of alkali metal ions was employed to prepare three isomers of tetraamide of ptert-butylthiacalix[4]arene: cone, partial cone and 1,3-alternate. It was demonstrated that preorganization of four amide fragments attached to the calix[4]arene platform has a strong macrocyclic cooperative effect on the extraction ability of the title hosts. © 2005 Springer Science+Business Media, Inc.

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Keywords

Alkali metal extraction, Alkylation, Stereoisomers, Structure, Thiacalix[4]arene