Pentakis-amidothiacalix[4]arene stereoisomers: Synthesis and effect of central core conformation on their aggregation properties

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Abstract

© ISUCT Publishing. New monosubstituted pentakisthiacalix[4]arenes in three different configurations (cone, partial cone and 1,3-alternate) were synthesized and their structure and composition were characterized by a number of physical methods including1H,13C, IR spectroscopy and mass spectrometry. The spatial structure was confirmed by two-dimensional1H-1H NMR spectroscopy. It was shown that nano-sized aggregates with silver cation were formed only in the case of multicalixarene with a cone configuration of the central core.

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Keywords

Aggregates, Multithiacalix[4]arene, Silver cation, Synthesis, Thiacalix[4]arene