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Synthesis and spatial structure of novel organosilicon derivatives of p-tert-butylthiacalix[4]arene from two-dimensional NMR data

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Abstract

New organosilicon derivatives of p-tert-butylthiacalix[4]arene with one or two ring fragments at the macrocycle lower rim were synthesized. The spatial structures of the resulting compounds were established by two-dimensional NMR spectroscopy. On going from the methyl substituents at the silicon atom to phenyl substituents, closure of the second silicon-containing ring is hampered because of steric hindrance in the reaction site. © 2007 Springer Science+Business Media, Inc.

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Keywords

Cyclophanes, Functionalization, Organosilicon compounds, P-tert-butylthiacalix[4]arene, Silylation, Two-dimensional NMR spectroscopy