

Bifunctional derivatives of (Thia)calix[4]arenes with terminal double and triple bonds: Synthesis and azide-alkyne click reactions

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Abstract

The synthesis of bifunctional derivatives of calix[4]arene and its thia-analogue containing double and triple bonds in 1,3-alternate and partial cone conformations was performed. The effect of tert-butyl groups at the upper rim of the macrocycle on the stereochemical result of the reaction is shown. Triple bonds of the synthesized bifunctional compounds readily undergo Cu(I)-catalyzed 1,3-dipolar cycloaddition reactions with azides. © ISUCT Publishing.

<http://dx.doi.org/10.6060/mhc140272b>

Keywords

1,3-dipolar cycloaddition reactions, Alkylation, Calix[4]arenes, Click chemistry, Terminal alkynes