

Synthesis of Shape-Persistent *meta*-Arylene-Butadiynylene Macrocycles with a Different Ring Size

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Streszczenie

A series of meta-phenylene-butadiynylene macrocycles was obtained by homocoupling of terminal bis(ethynyl) precursors using Eglinton conditions. Cyclotetramers and cyclopentamers were isolated from the mixture. However, a hexameric analogue was synthesized using a step-by-step approach. Molecular structures of the resulting macrocycles obtained by X-ray single-crystal analysis manifest conformational diversity, indicating significant flexibility of the meta-arylene-butadiynylene macrocycle conjugated skeleton.

Słowa kluczowe

macrocycles, cross-coupling, Eglinton coupling, butadiynes, shape-persistent macrocycles

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<https://www.thieme.com/>