

Stereoselective Wittig olefination as a macrocyclization tool. Synthesis of large carbazolophanes.

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Streszczenie

Z-Selective Wittig olefination was applied to the synthesis of large carbazolophanes containing up to eight heteroaromatic subunits. A number of strategies were devised and tested, showing that cyclooligomerization yields can be significantly improved by using one-component schemes involving heterobifunctional reactants. [4]- and [6]-Carbazolophanes were characterized in the solid state, revealing compact, highly folded structures. Electronic and steric effects of substitution and chain length on the Wittig olefination rates and Z-selectivities were explored theoretically using DFT calculations.

Adres publiczny

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Strona internetowa wydawcy

<https://www.acs.org/content/acs/en.html>