

Kinetic versus thermodynamic control over multiple conformations of di-2,7-naphthihexaphyrin(1.1.1.1.1.1)

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Streszczenie

Di-2,7-naphthihexaphyrin(1.1.1.1.1.1), a non-aromatic carba-analogue of the hexaphyrin(1.1.1.1.1.1), incorporating two built-in 2,7-naphthylene moieties was synthesized as two separate, conformationally locked stereoisomers. Both conformers followed complex protonation pathways involving structurally different species, which can be targeted under kinetic and thermodynamic control. The neutralization of the ultimate dicationic product, accessible from both stereoisomers of the free base, allowed to realize the complex conformational switching cycle involving six structurally different species.

Słowa kluczowe

chirality, conformation analysis, macrocycles, porphyrinoids, supramolecular chemistry

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