

N-fusion approach in construction of contracted carbaporphyrinoids: formation of *N*-fused telluraporphyrin.

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Streszczenie

Insertion of PCl_3 into 5,10,15,20-tetraaryl-21-telluraporphyrin leads to a phosphorus complex of *N*-fused dihydrotelluraporphyrin with an inverted tellurophene ring. Its CNN coordination core places the macrocycle in the family of contracted carbaporphyrinoids. A cycle of direct transformations affords an elegant triangle of three mutually convertible *N*-fused porphyrinoids, with distinct spectroscopic features: antiaromatic, nonaromatic and aromatic. The nonaromatic species has a dome shaped skeleton which forms in the solid state a ball and socket structure with C_{60} .

Słowa kluczowe

fullerenes, macrocycles, porphyrinoids, template synthesis, supramolecular chemistry

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