Three-stage aromaticity switching in boron(III) and phosphorus(V) N-fused *p*-benziporphyrin.

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Streszczenie

Insertion of PCl_3 or $PhBCl_2$ into 5,10,15,20-tetraaryl-*p*-benziporphyrin prompted an intramolecular fusion affording anti-aromatic phosphorus(V) and non-aromatic boron(III) complexes of two N-fused dihydro-*p*-benziporphyrin isomers. These macrocycles are classified as carbatriphyrin due to the common [CNN] coordination. A sequence of direct transformations, triggered by protonation or two-electron redox processes, afforded a set of three mutually convertible N-fused *p*-benziporphyrinoids, with distinct anti-aromatic, non-aromatic, and aromatic spectroscopic features.

Słowa kluczowe

aromaticity, carbaporphyrinoid, chrality, fusion, porphoryinoids, Triphyrin

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