

From *para* benziporphyrin to rhodium(III) 21-carbaporphyrins : imprinting Rh... $\eta^2$ -CC, Rh... $\eta^2$ -CO, and Rh... $\eta^2$ -CH coordination motifs.

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Streszczenie

Rhodium(III) *para*-benziporphyrin alters the fundamental reactivity of the built-in *para*-phenylene moiety. Due to additional macrocyclic stabilization, a sequence of intramolecular rearrangements are triggered to afford rhodium(III) 21-carbaporphyrin, which incorporates the rhodacyclopropane motif. The peculiar reversible transformations of the bridging methylene unit provide an example of selective and reversible aliphatic C-H bond elimination. Rhodium(III) 21-carbaporphyrin can be oxygenated to rhodium(III) 21-oxy-21-carbaporphyrin, whereas the metal ion interacts with the C(21)-O(25) fragment in an  $\eta^2$  fashion. This species demonstrates a remarkable axial affinity toward alkenes.

Słowa kluczowe

alkenes, carbaporphyrins, contraction, porphyrinoids, Rhodium

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