

A *meso*-tetraaryl-21-carbaporphyrin: incorporation of a cyclopentadiene unit into a porphyrin architecture.

Autorzy

Mateusz Garbicz

Lechosław Latos-Grażyński

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Streszczenie

Incorporation of a cyclopentadiene moiety into the *meso*-tetraarylporphyrin framework, using 1,3-bis(arylhydroxymethyl)ferrocene as a synthon, resulted in the rational synthesis of a *meso*-tetraaryl-21-carbaporphyrin. The molecular design preserves all essential virtues of the original tetrapyrrolic architecture of *meso*-tetraarylporphyrin, including the perfect match between the ionic radii of an inserted metal and the size of the macrocyclic (C₄NN) core, and steric protection provided by thoughtfully chosen *meso*-aryl substituents. Its protonation of the inner core reveals an adjustable (trigonal versus tetrahedral) geometry.

Słowa kluczowe

ferrocene, palladium, porphyrinoids, structure elucidation, synthons

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