

Various Synthetic Routes to a Gable-Like Bis(porphyrin) Constructed on a 1,10-Phenanthroline Chelate

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Abstract

Three different synthetic routes to obtain a gable-like bis(porphyrin) are described. The two porphyrins are covalently linked to a 2,9-diphenyl-1,10-phenanthroline chelate. One way to gain access to the bis(porphyrin) relies on the simultaneous construction of two porphyrins on a 2,9-bis(*para*-formylphenyl)-1,10-phenanthroline, whereas the other two are based on Suzuki cross-coupling reactions between a presynthesised porphyrin and an appropriate phenanthroline derivative.

Involved units

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