

Synthesis and characterization of diaryl sapphyrins prepared under Lindsey-type conditions.

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Streszczenie

Sapphyrins (represented by parent structure 1) are an interesting class of aromatic pentapyrrolic macrocycles related to porphyrins that were first described 29 years ago.¹⁸ Despite the intriguing structural features of this class of “expanded porphyrins”, the chemistry of the sapphyrins has only recently begun to be explored in depth, due, in part, to the limiting nature of the original syntheses.^{1b c} This group has improved upon the Woodward sapphyrin synthesis by streamlining the synthesis of the two main acyclic precursors (e.g., 2 and 3, Scheme 1) upon which it relies. This improved synthesis^{1 2} has made possible investigations into the cation complexation behavior of sapphyrins,³ a documentation of its unique anion-binding properties,⁴⁻⁵ and a demonstration of its photosensitizing abilities.

Adres publiczny

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<https://www.acs.org/content/acs/en.html>