



"Push-pull" 2-ferrocenyl-4-hydroxythiazoles: a novel method of the construction of the thiazole ring.

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Streszczenie

The title compounds were obtained by cyclization of ferrocenyl thioimidates in the presence of sodium ethoxide. They were transformed into the corresponding 4-acetoxy-derivatives in reaction with acetic anhydride/pyridine. The structure of 4-acetoxy-5-(ethoxycarbonyl)-2-ferrocenylthiazole was determined by X-ray diffraction. The EFISH measurements revealed significant second-order nonlinear properties of 4-acetoxy-2-ferrocenyl-5-(4-nitrophenyl)ferrocenylthiazole ($\mu\beta = 250 \times 10^{-48}$ esu at 1907 nm).

Słowa kluczowe

Ferrocene, Thiazole, Cyclization, X-ray structure, NLO, EFISH

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