

Synthesis and Photochemical Properties of 3,6-Di-*tert*-butyl-9*H*-carbazole Derivatives

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Abstract—Method of synthesis has been developed for a series of 3,6-di-*tert*-butyl-9*H*-carbazole derivatives and their photochemical properties have been investigated. The dependence of the Steglich esterification reaction on the nature of the catalyst was studied. The synthesized compounds show fluorescent emission in the range 400–600 nm with a high quantum yield.

Keywords: carbazole, Steglich esterification, luminophores, fluorescent emission, Stokes shift

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