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2-芳基吲哚的敏化光氧化偶合反应

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摘要 本文研究了十七种2-芳基吲哚(1a-1q)在甲醇-乙酸介质中的亚甲基蓝(MB)敏化光氧化反应,发现有十五种吲哚(1a-1o)以85%-95%的产率给出2,2'-二芳基-[2,3'-联-1H-吲哚]-3(2H)-酮(2a-2o),而2-(4-硝基苯基)吲哚(1p)和2-联苯基吲哚(1q)则分别生成2-甲氧基-2-(4-硝基苯基)-1,2-二氢-3H-吲哚-3-酮(7p)和2-联苯基-4H-3,1-苯并恶嗪-4-酮(11q),其中7p在分离过程中失去甲醇分子给出2-(4-硝基苯基)-3H-吲哚-3-酮(10p)。

关键词 [吲哚 P 敏化 偶合反应 光氧化反应 亚甲基蓝 其它基金](#)

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Sensitized photooxidative coupling of 2-aryllindoles

Abstract Methylene blue sensitized photooxygenation of seventeen 2- aryllindoles (1a-1q) in methanol-acetic acid was examined, of which fifteen were found to give 2,2'-diaryl-[2,3'-bi-1H-indol]-3(2H)-ones (2a-2o) in 85-95% yields, whereas 2-(4-nitrophenyl) indole (1p) and 2- biphenylindole (1q) gave 2-methoxy-2-(4-nitrophenyl)-1,2-dihydro-3H- indol-3-one (7p) and 2-biphenyl-4H-3,1-benzoxazin-4-one (11q) respectively, the former (7p) lost methanol molecule leading to 2-(4- nitrophenyl)-3H-indol-3-one (10p) during the separation process.

Key words [INDOLE P SENSITIZATION COUPLING REACTION](#)

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