

Synthesis of 2-Arylnaphth[1,2-d]imidazole-4,5-diones and 2-Aryl-1H-Benz[a]imidazo[4,5-c]phenazines

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Studies of quinone heterocyclic derivatives have attracted widespread interest. In particular, naphthimidazol diones are useful as dyes, fluorescent brighteners and as compounds showing enzyme inhibition.

2-Arylnaphth[1,2-d]imidazole-4,5-diones were obtained in the reaction of 2,3-dichloro-1,4-naphthquinone with arylamidines. In an attempt to use imidazole diones as precursors for phenazine derivatives, 2-arylnaphth[1,2-d]imidazole-4,5-diones were involved into reaction with *o*-phenylenediamine, yielding 2-aryl-1H-benz[a]imidazo[4,5-c]phenazines.

