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Quinoline-2,4(1*H*,3*H*)-dione as a target for Wittig reactions and further transformations

In the last two decades, the reactivity of quinoline-2,4(1*H*,3*H*)-diones has been explored rather intensively. These studies, among them the investigations intent on Wittig reactions constitute one of the most marked fields, have led to a number of interesting products. As could be expected, Wittig reactions enable to transform quinoline-2,4(1*H*,3*H*)-dione in structures, which are interesting from various aspects, *e.g.* structural patterns occurring in many compounds displaying appreciable bioactivity. Especially intramolecular Wittig reaction represents an efficient tool for the creation of new tricyclic systems with heteroatoms. On the other hand, depending on the substitution of basic scaffold, the Wittig reaction could be more or less accompanied by side reactions, even other reaction can take place instead of the Wittig reaction. Also the explorations of side products have earned a number of interesting findings.