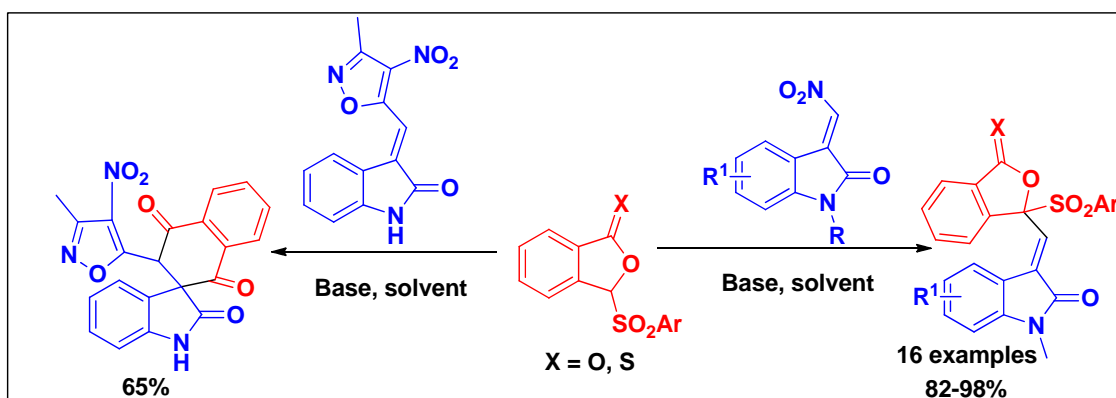


SYNTHESIS OF BENZOFURANYL INDOLINONES AND SPIRONAPHTHOQUINONES BY REACTION OF 3-SUBSTITUTED PHTHALIDES AND OXINDOLE DERIVED NITRO-OLEFINS

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Naphthoquinone moiety is found in many bioactive natural products.¹ An efficient method for the construction of naphthoquinone moiety is Hauser-Kraus annulation, in which a stabilized phthalide ion acts as Michael donor with various activated olefins.² In this work, a Hauser-Kraus annulation between 3-sulfonylphthalide and oxindole derived nitroalkenes was attempted to construct spironaphthoquinone moieties, but instead, it underwent nucleophilic vinylic substitution of sp^2 -nitro group to form benzofuranyl indolinones. On the other hand, when the reaction was performed between 3-sulfonylphthalide and oxindole derived nitrodienes it underwent conventional Hauser-Kraus annulation to afford spironaphthoquinone in good yield. In summary, a different reactivity of Hauser donor, *i.e.* 3-sulfonylphthalide, with different oxindole derived nitro-olefins was demonstrated to construct diverse heterocyclic motifs.



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