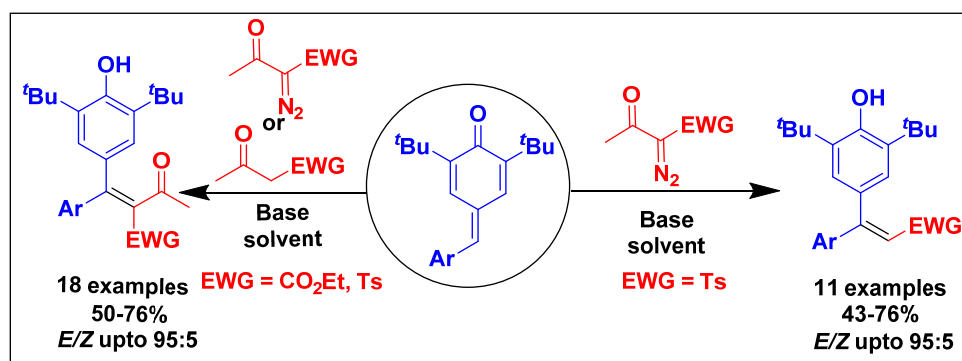


SYNTHESIS OF FUNCTIONALIZED OLEFINS VIA BASE MEDIATED 1,6-ADDITION OF DIAZO COMPOUNDS AND THEIR ACTIVE METHYLENE PRECURSORS TO *p*-QUINONE METHIDES

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Para-quinone methides (PQMs) have emerged as potential 1,6-acceptors due to the possible aromatization of the quinone moiety to form the corresponding phenolic moiety. Therefore, several 1,6-additions to PQMs were reported such as 1,6-nitrile addition¹, 1,6-borane addition², 1,6- arylation and hetero arylation³, 1,6-addition of Bestmann-Ohira reagent⁵ etc. In this work, the synthesis of a various functionalized olefins has been demonstrated by the reaction of PQMs with diazo compounds such as α -diazosulfone, α -diazoester and also their active methylene precursors under basic conditions. In the presence of base and polar protic solvent, the α -diazosulfone underwent a deacylative 1,6-addition and subsequent N₂ elimination to form tri-substituted alkenes in moderate to good yields. However, the corresponding diazoester did not react in protic solvent, but afforded the tetra-substituted olefins *via* a non-deacylative 1,6-addition and subsequent expulsion of nitrogen in a polar aprotic solvent. Later, the PQMs were also treated with the precursors of the diazo adducts in polar aprotic solvents which led to the formation of tetra-substituted olefins in good yields as well as good *E/Z* ratios.



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