

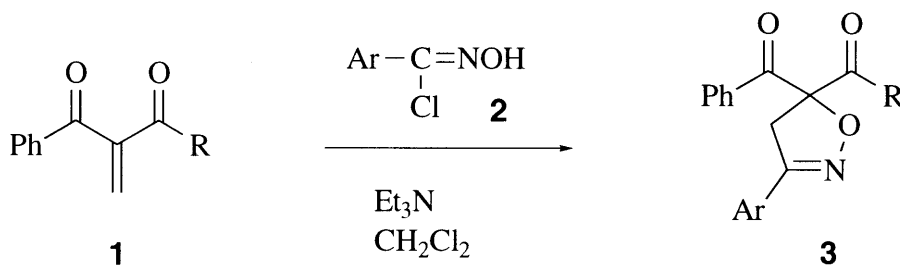
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Reactivity of 2-Methylene-1,3-dicarbonyl Compounds. 1,3-Dipolar Cycloaddition Reaction with Nitrile Oxide

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The reaction of 2-methylene-1,3-dicarbonyl compounds **1** and nitrile oxides, which were prepared from hydroxymoyl chlorides **2** with triethylamine, gave 5,5-disubstituted 2-isoxazolines **3** regioselectively.



a ; R = Me

b ; R = Ph

c ; R = OMe

d ; R = OEt

e ; R = O-cyclohexyl

f ; R = OCH₂Ph

a ; Ar = C₆H₅

b ; Ar = 4-CH₃-C₆H₄

c ; Ar = 4-Prⁱ-C₆H₄

d ; Ar = 4-CH₃O-C₆H₄

e ; Ar = 4-Cl-C₆H₄

f ; Ar = 4-Br-C₆H₄

g ; Ar = α -naphthyl