

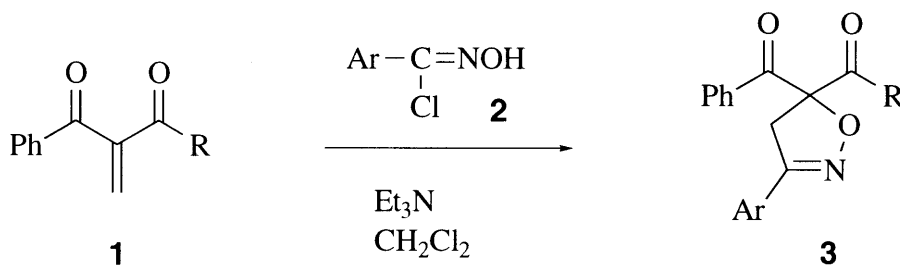
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## Reactivity of 2-Methylene-1,3-dicarbonyl Compounds. 1,3-Dipolar Cycloaddition Reaction with Nitrile Oxide

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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 = OCH<sub>2</sub>Ph

**a** ; Ar = C<sub>6</sub>H<sub>5</sub>

**b** ; Ar = 4-CH<sub>3</sub>-C<sub>6</sub>H<sub>4</sub>

**c** ; Ar = 4-Pr<sup>i</sup>-C<sub>6</sub>H<sub>4</sub>

**d** ; Ar = 4-CH<sub>3</sub>O-C<sub>6</sub>H<sub>4</sub>

**e** ; Ar = 4-Cl-C<sub>6</sub>H<sub>4</sub>

**f** ; Ar = 4-Br-C<sub>6</sub>H<sub>4</sub>

**g** ; Ar = α-naphthyl