A CONVENIENT SYNTHESIS OF SUBSTITUTE $\delta$-PYRONES VIA $\delta$-OXOALKENOIC ACID ESTERS

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In connection with our interest in the synthesis of $\gamma$,$\delta$-oxoalkenoic acid esters, we tried conjugate addition of the enolates of carbonyl compounds 1 to Knoevenagel type enamino esters 2. The reaction produced substituted $\alpha$-pyrones 3, which are useful synthetic intermediates for biologically active compounds, in good yields via conjugate addition-elimination and cyclization process.

\[ OM \]

\[ \text{R}_2N\text{COOR'} \text{COOR'} \]

\[ \text{R'} \]

This method seems to be of rather wide applicability with lithiated hydrazones, aminonitriles, and amides giving also the corresponding heterocyclic compounds in good yields.

1) Ürkmez-Karaaslan, R. PhD thesis Middle East Technical University 1990;