

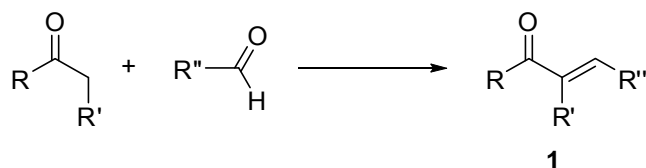
STUDYING OF INTERACTION OF BENZO[C][2,1]THIAZINE-4-ON 2,2-DIOXIDE WITH ARYLALDEHYDES

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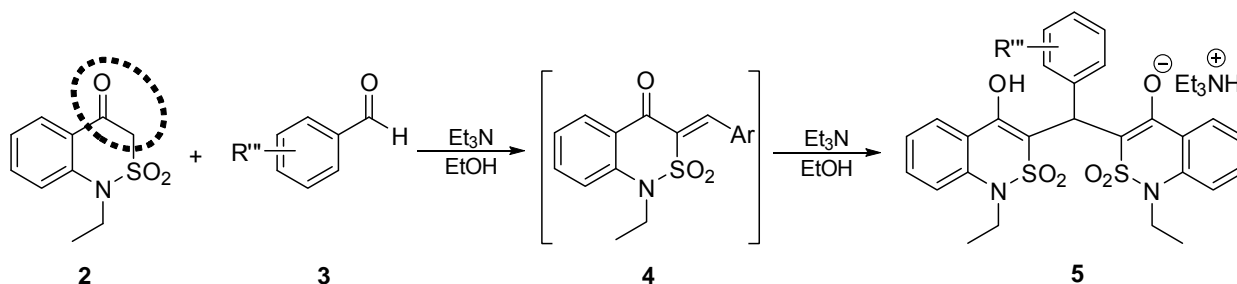
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α,β -Unsaturated ketones **1** are reactive compounds and therefore they are useful reagents in synthesis of the variety of heterocyclic systems. Crotonic condensation reaction of active methylene carbonyl compounds with aldehydes is the most general and convenient method for such ketones synthesis.



Benzo[*c*][2,1]thiazine-4-on 2,2-dioxide **2** is an example of a carbonyl CH-acid. This fact has encouraged us to use **2** in reaction with arylaldehydes **3** in order to obtain appropriate arylidenes **4**. The reaction was carried out under general conditions, namely in medium of ethanol in the presence of triethylamine as a base. But it was surprising that the triethylammonium salts **5** were the products of this reaction.



R'' = H, 4-NO₂, 4-OCH₃, 4-Cl, 2-OCH₃

This result could be explained by the formation of the intermediate **4**, which subsequently reacted with the second molecule of **2** leading to synthesis of the salt **5**.

The structures of obtained compounds **5** were confirmed using the instrumental methods of analysis (¹H NMR, ¹³C NMR, IR-spectroscopy, mass-spectrometry and X-ray analysis).

