

N(2-ACYLTHIO)PHENYLENAMIDES FROM BENZOTHAZOLINES

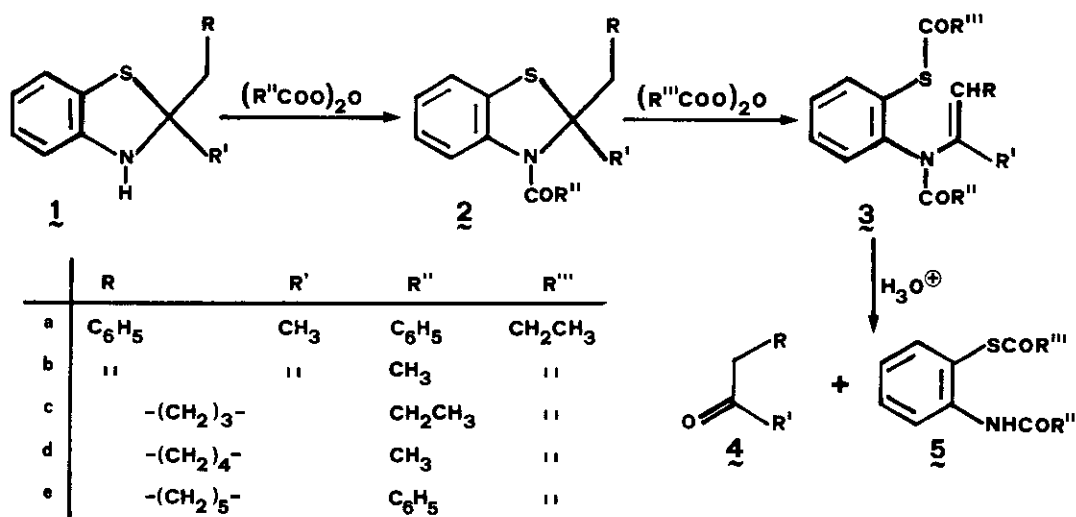
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Enamides are interesting key intermediates in organic synthesis. Their preparation has been generally accomplished by acylation of imines¹, isomerization of allylamides² and by elimination of methanol from α -methoxylated amides³.

We report now a new way which allows the synthesis of the enamides **3** starting from easily available benzothiazolines **1** and carboxylic anhydrides. The compounds **3** are obtained in good yields according to the synthetic scheme below reported. The structures of the compounds **3** were established by a combination of spectral and chemical evidences. The ¹H nmr spectra revealed the presence of the vinylic proton in the region 4.95-6.80 δ . The hydrolysis of the compound **3** yielded quantitatively the ketone **4** and the amidethioester **5**.



1. G.R.Lenz, *Synthesis*, 489(1978).
2. J.K.Stille and Y.Becker, *J.Org.Chem.*, **45**, 2139(1980).
3. T.Shono et al. *J.Am.Chem.Soc.*, **104**, 6697(1982).