BRACTIONS OF ETHYL PHENYLPROPIOLATE WITH

INDOLE DERIVATIVES

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The condensation of ethyl phenylpropioate with oxindole and Indoxylacetate were investigated in the presence of Sodium ethoxide. several possible anions could be formed from the oxindole and indoxyl. Beside that, several possible reaction pathways could take place between the anions and the acetylenic ester.

It is suggested that the reactions of the amions (I) and (II) with the acetylenic ester proceed via Nichael addition followed by cyclisation through the nitrogen or the α carbon of the indole to give $\alpha^{2,3}$ indoly. 4-000-5-phenyl-1,3-0xazine (III) and $\alpha^{2,3}$ dehydroindolyl - (6-phenyl-4-pyrones) (IV). respectively.

In addition, the reaction of some other indole derivatives with the acetylenic ester were investigated.