

SYNTHESES OF INDOLIZINE DERIVATIVES

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In a continuation of our previous studies of the ketenethioacetals, we have synthesized several heterocyclic compounds using the displacement reaction of ketenethioacetals. The present abstract reports the syntheses of indolizine derivatives by the reaction of ketenethioacetals.

Reaction of 1-[2,2-bis(methylthio)vinyl]pyridinium iodides with phenylsulfonyl-acetonitrile or nitromethane in the presence of triethylamine as a base in ethanol gave the corresponding indolizines in a good yield.

The reaction of N-phenacylpyridinium bromides with ketenethioacetal, 1-nitro-2,2-bis(methylthio)ethylene, in the presence of triethylamine as a base in ethanol under refluxing afforded the indolizines.

N-Aminopyridinium chlorides reacted with 1-nitro-2,2-bis(methylthio)ethylene under the same condition to give the azaindolizines in a good yield.