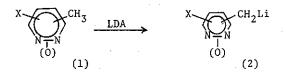
REACTION OF ANIONS DERIVED FROM METALATION OF ALKYL PYRIDAZINES AND THEIR N-OXIDES WITH ELECTROPHILIC REAGENTS

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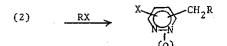
To find a general method for modification of methyl groups of methyl pyridazines and related compounds, metalation of these compounds and nucleophilic reaction of their metalated compounds have been investigated.

Methyl groups of various methylpyridazines and methylpyridazine N-oxides (1) were lithiated by lithium diisopropylamide in THF.

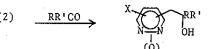


Lithiated compounds (2) reacted with various types of electrophilic reagents: e.g.,

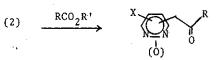
(1) Methyl group of (1) was alkylated by reaction of (2) with alkyl halides.



(2) Reaction of (2) with ketones afforded tert-alcohols.



(3) Reaction of (2) with esters afforded ketones.



Products of these reactions were obtained in satisfactory yields respectively. Utility of this method in the syntheses of pyridazine derivatives will be discussed and properties of some products will be also mentioned.

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