## Thesis MU 15

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## ABSTRACT (PART I)

Sodium glycidates are important synthetic intermediates of  $\underline{\alpha}$ -substituted ketones. The Oxidative decarboxylation of sodium glycidates by lead tetraacetate in benzene and pyridine gave  $\underline{\alpha}$ -substituted ketones with one-carbon homologation from the starting carbonyl compounds.

Decarboxylation of 3-chloro-2-hydroxy acids with lead tetraacetate in benzene and pyridine gave the corresponding  $\underline{\alpha}$ --aryl- $\alpha$ -chloroketones or  $\alpha$ -acetoxy- $\alpha$ -aryl ketones in good yields.

Decarboxylation of sodium 2-chloro-aryl glycidates with lead tetraacetate ik pyridine and benzene gave the corresponding  $\underline{\alpha}$ -keto acid chlorides. Methanolyses of these compounds gave  $\underline{\alpha}$ -ketoesters.

## ABSTRACT (PART II)

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The  $\underline{\alpha}$ -aminonitriles are good "masked nucleophilic acylating agents".

The reaction of lithic  $\underline{\alpha}$ -(dimethylamino)aryl acetonitriles with ethyl chloroformate and acid chlorides in tetrahydrofuran at -78°C gave the corresponding  $\underline{\alpha}$ -aminonitrile adducts. Hydrolyses of these adducts with cupric sulphate in aqueous ethanol gave  $\underline{\alpha}$ -ketoesters and  $\underline{\alpha}$ -diketones respectively.

The 1,2-addition of lithio  $\underline{\alpha}$ -(diethylamino)acetonitrile with cyclohexanone in tetrahydrofuran at -78°C was unsuccessful.

The reaction of lithic  $\underline{\alpha}$ -(morpholino) acetonitrile with electrophiles in tetrahydrofuran at  $-78^{\circ}$ C gave self condensation product and only a little of alkylated products.