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Synthesis of Di-(*N*-tropinonyl)benzenes and Di-(*N*-tropinonyl)alkanes

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Generally pyrrole derivatives were mainly synthesized by treatment of amine and 2,5-dimethoxytetrahydrofuran with glacial acetic acid at high temperature. But nortropinone derivatives were obtained by treatment of amine and 2,5-dimethoxytetrahydrofuran with acetonecarboxylic acid at 0°C.

In view of this interesting result, we report the reactions of aliphatic and aromatic diamines and 2,5-dimethoxytetrahydrofuran with acetonedicarboxylic acid.

Synthetic products are as follows : 1,4-Di-(*N*-tropinonyl)benzene, 1,3-Di-(*N*-tropinonyl)benzene, 1,2-Di-(*N*-tropinonyl)ethane, 1,3-Di-(*N*-tropinonyl)propane and etc..