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Synthesis of Structural Isomer from 4-substituted Phenylenediamine and acetone equivalent

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Diazepam and nitrazepam are anticonvulsants and flurazepam is both an antianxiety agent and a potent hypnotic. In addition to the 1,4-benzodiazepines, 5-aryl-1,5-benzodiazepines have also recently been used. They possess a activity spectrum similar to the 5-aryl-1,4-benzodiazepines.

Treatment of 4-substituted phenylene-diamine with acetone equivalent afforded 7-substituted 1H-benzo[b][1,4]diazepine and 8-substituted 1H-benzo[b][1,4]diazepine as structural isomer. So we report the reactions of 4-substituted phenylenediamine (4-chlorophenylenediamine, 4-methylphenylenediamine, and 4-nitrophenylenediamine) and acetone equivalent with PPA (or HCl).