

Title (en)

PROCESS FOR PRODUCING PURE AND STABLE FORM OF 2-METHYL-4-(4-METHYL-1-PIPERAZINYL)-10H-THIENO[2,3-b][1,5]BENZODIAZEPINE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER REINEN UND STABILEN FORM VON 2-METHYL-4-(4-METHYL-1-PIPERAZINYL)-10H-THIENO[2,3-b][1,5]BENZODIAZEPIN

Title (fr)

PROCÉDÉ DE PRODUCTION D'UNE FORME PURE ET STABLE DE 2-MÉTHYL-4-(4-MÉTHYL-1-PIPÉRAZINYL)-10H-THIÉNO[2,3-b][1,5]BENZODIAZÉPINE

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Application

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Abstract (en)

[origin: WO2007105225A1] Disclosed is an improved process for producing pure and thermally color stable crystalline Form I of 2-methyl-4-(4-methyl-1-piperazinyl)-10H-thieno[2,3-b][1,5] benzodiazepine and product thereof. The process comprises of reacting 2-(2-aminoanilino)-5-methylthiophene-3-carbonitrile with N-methyl piperazine in conjunction with N-methylpiperazine acid salt, to produce 2-methyl-4-(4-methyl-1-piperazinyl)-10H-thieno[2,3-b][1,5] benzodiazepine. Also disclosed is a process for obtaining the Polymorphic Form I of 2-methyl-4-(4-methyl-1-piperazinyl)-10H-thieno[2,3-b][1,5] benzodiazepine by crystallizing the crude 2-methyl-4-(4-methyl-1-piperazinyl)-10H-thieno[2,3-b][1,5] benzodiazepine in a mixture of solvents. Further the invention also provides a new polymorph of Olanzapine, dihydrate Form Ji and process for its preparation and a new hydrate Form J₂ of Olanzapine having moisture content 1-3% and process for its preparation.

IPC 8 full level

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