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(54) Title: PROCESS FOR PREPARATION OF BICALUTAMIDE

(57) Abstract: The present invention discloses a process for the synthesis of N-[4-Cyano-3-(trifluoromethyl) phenyl]-3-[(4-fluorophenyl) sulphonyl]-2-hydroxy-2-methyl propanamide (Form I). The invention discloses a reagent for oxidation of N-[4-Cyano-3-(trifluoromethyl) phenyl]-3-[(4-fluorophenyl) thio]-2-hydroxy-2-methyl propanamide to N-[4-Cyano-3-(trifluoromethyl) phenyl]-3-[(4-fluorophenyl) sulphonyl]-2-hydroxy-2-methyl propanamide. More particularly, the invention discloses a method of purification of N-[4-Cyano-3-(trifluoromethyl) phenyl]-3-[(4-fluorophenyl) sulphonyl]-2-hydroxy-2-methyl propanamide in a mixture of methylethyl ketone and hexane giving form (I). This form (I) is useful as an active pharmaceutical and has antiandrogenic activity.

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