

Invention relates to method for synthesizing 3-ferrocenyl-1,4,5,6-tetrahydropyridazines, which is carried out using 4-chlorobutanoylferrocene and the hydrochloride of monosubstituted hydrazine with the formula ${}^{-}\text{Cl}^{+}\text{H}_3\text{N-NH-R}$, where $\text{R} = \text{i-Pr}$, CH_2CHF_2 , CH_2CF_3 , $\text{CH}_2\text{CH}_2\text{OMe}$, and starting materials are boiled in benzene for 16-24 hours using Dean-Stark apparatus to separate off water in the presence of sodium acetate (NaOAc , 3 equiv.) as base and tetrabutylammonium bromide ($\text{p-Bu}_4\text{NBr}$, 10 mol. %) as mass transfer catalyst.