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Synthesis of 1-(3-and 4-Fluoro-2, 6-Dimethylphenoxy) Propanone

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ABSTRACT **AIM** The aim is to prepare 1-(3-fluoro-2, 6-dimethylphenoxy) propanone (II_a) and 1-(4-fluoro-2, 6-dimethylphenoxy) propanone (II_b). **METHODS** It is prepared *via* 2, 6-dimethylphenol by the nitration, reduction, Schiemann reaction, condensation, but different strategies were used while choosing the nitration agents, protective groups, order of the removal of protective groups, and the condition of fluorination when synthesizing two target compounds. **RESULTS** Two target compounds and intermediate 3-fluoro-2, 6-dimethylphenol (V_b) were synthesized. The structures of the three compounds were determined by the spectra analysis and elemental analysis. **CONCLUSION** The two target compounds can be used to synthesize F-substituted analogies of DDPH.

KEY WORDS DDPH; Schiemann reaction; 3-Fluoro-2, 6-dimethylphenol; Cupric nitrate; 1-Bromoacetone

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中国药科大学获得药学博士、硕士学位授权一级学科点

根据国务院学位委员会学位[2000] 57 号文通知, 经国务院学位委员会第十八次会议批准, 我校获得了药学博士、硕士学位授权一级学科点, 即可在本一级学科范围内招收培养研究生及授予博士、硕士学位。

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