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NUCLEOPHILIC CATALYSIS IN THE REACTIONS OF POLYFLUOROCARBONYL COMPOUNDS WITH PHENOLS

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The thermal C-alkylation of phenols by means of polyfluoroketones under acidic catalytic conditions was studied earlier [1]. These reactions have been shown to proceed under ordinary conditions affording good yields (80-100%) of para-alkylated products (1) when nucleophilic catalysis is employed.

n = 0, 1, 2  $R_1 = OCH_3$ ,  $CH_3$ ,  $iso-C_3H_7$ ,  $tert-C_4H_9$ , F, C1, Br  $R_2 = CF_3$ ,  $COOCH_3$ ,  $COOC_2H_5$ 

If para-position is not accessible ortho-alkylation proceeds. The features of these reactions arising from the nature of the catalyst, the solvent and reagents used are discussed.

1 Farah B.S., Gilbert E.E., Morton Litt. et al. J. Org. Chem.,
30 1004 (1965).