

## SYNTHESIS AND PROPERTIES OF FLUOROALKYL GROUP CONTAINING URETHANE COMPOUNDS

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2-Perfluoroalkylethanol reacts with polyisocyanate such as toluene diisocyanate to produce the urethane or the alophanate in the presence of the acids or the bases, respectively.

The effects of the catalyst concentration and basicity on the kinetics of the reaction were investigated.

The reaction mechanism will be discussed comparing the fluoroalcohol with the corresponding hydrocarbinol.

Moreover, the effects of the molecular structure on the properties and the performances of the urethane compounds will be discussed.