

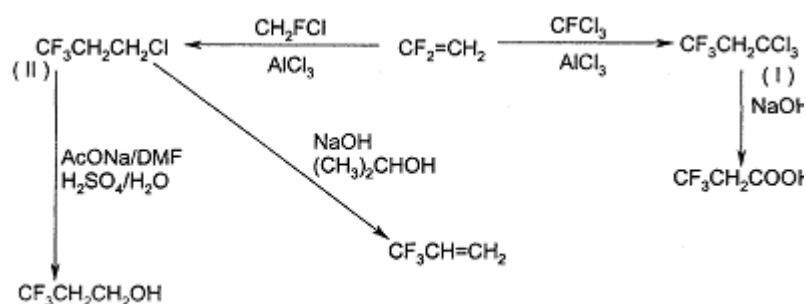
NEW APPROACH TO THE FUNCTIONAL TRIFLUOROPROPANE COMPOUNDS

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Addition of freones to the fluoroalkenes is an adequate method of synthesizing of the different aliphatic fluorine compounds [1].

Reactions of CH_2FCl and CFCl_3 with 1,1-difluoroethene were studied with the purpose of searching the new approaches of synthesizing trifluoropropionic acid, trifluoropropanol and the analogous compounds.

It is found that freones 11 and 21 under pressure at the room temperature are added to $\text{CF}_2=\text{CH}_2$ having good yield.



As a result Trifluoropropanes (I, II) being formed are easily converted to trifluoropropanol, trifluoropropene and trifluoropropionic acid.

1. W.A. Sheppard, C.M. Sharts . Organic Fluorine Chemistry [Russian Translation], Mir, Moscow. 1972 p. 272