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REARRANGEMENT OF ESTERS OF FLUORINE-CONTAINING CARBOXYLIC ACIDS TO PIPERAZINIUM SALTS

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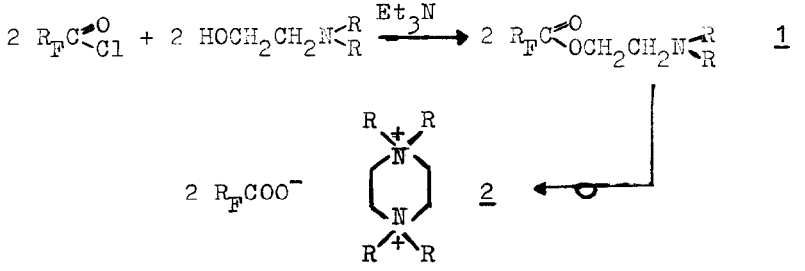
Unexpectedly piperazinium salts 2 were found as result of the reaction between perfluorocarboxylic chloride and N,N-dialkylamino-ethanol.



R_F = C_7F_{15}, C_8F_{17}, C_6F_{13}, HC_8F_{16}

R = CH_3, C_2H_5

The rearrangement of the intermediate product 1 to the cyclic compound 2 can be explained by anchimeric assistance. The reaction mechanism will be discussed.

Properties of the new type of salts 2, especially their surface activity in aqueous solution, will be presented.