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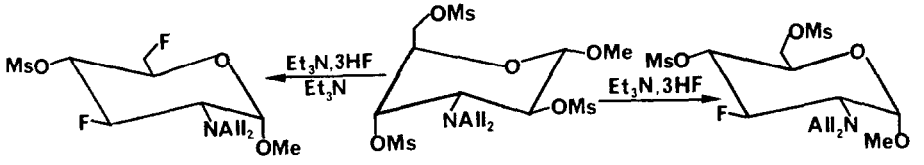
Et_3N, 3HF, A NEW FLUORINATING REAGENT. SOME EVIDENCE FOR THE EXISTENCE OF Et_3N, 2HF

B. Veyron, D. Picq and D. Anker

Laboratoire de Chimie Organique 3, U.A. C.N.R.S. 467, Bât 303, 43 Bd du 11 Novembre, F-69622 Villeurbanne Cédex (France)

During our program to synthesize fluorinated aminosugars [1] we needed a quite neutral nucleophilic fluorinating reagent to obtain 3,6 difluoroglucosamine. Et_3N,3HF was not nucleophilic enough and other reagents like MF or $R_4N^+F^-$ were too basic and led to elimination products (because of the axial 4-OMs). We found that when adding some Et_3N to Et_3N,3HF, reaction worked in good yields. Our first results were consistent with the formation of a complex Et_3N,2HF which could be isolated as a very hygroscopic white powder.



main product main product

Preparation of Et_3N,2HF is described together with some presumption of structure. Comparison of its reactivity with that of other fluorinating reagents will be discussed.

1 D. Picq, I. Drivas, G.Carret, D.Anker and M. Abou-Assali, Tetrahedron, 41, 2681 (1985).
D. Picq and D. Anker, J. Carbohydr. Chem., 4, 113 (1985).
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