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A SHORT SYNTHESIS OF α-FLUORO ACRYLIC DERIVATIVES

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Primary polyfluoroallylic alcohols $CFX=CF-CH_2OH$ **2** (X=F,Cl) were obtained by action of an alkyl lithium at 0° on 3-Hydropolyfluoro propanols $HCFX-CF_2-CH_2OH$ **1** . In acidic medium allylic alcohols **2** rearranged into 2-Fluoro acryloyl fluoride $CH_2=CF-COF$ **3** . The whole procedure constitutes a two steps process of obtaining **3** . By extension of the method to alcohols $R-CF=CF-CH_2OH$ **4** , which were obtained by action of alkyl lithium at 20°C on alcohols **1** , 1-Fluorovinyl ketones $CH_2=CF-CO-R$ **5** were prepared :