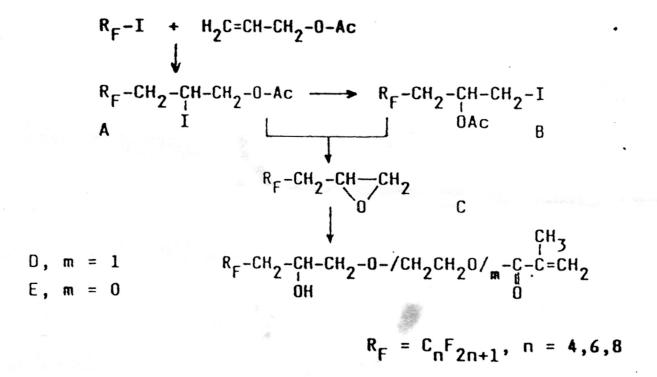
SYNTHESIS OF AMPHIPHILIC METHACRYLATES FROM FLUORINATED EPOXIDES

V.Církva^a, B.Ameduri^b, J.Kvíčala^a, O.Paleta^a and B.Boutevin^b

- a Prague Institute of Chemical Technology, Technická 5, 16628 Prague 6, CZECH REPUBLIC
- b Ecole Nationale Supérieure de Chimie de Montpellier,
 8, rue Ecole Normale, 34053 Montpellier Cedex 1, FRANCE

The synthesis of the titled compounds was carried out in three steps starting from perfluoroalkyl iodides. They were subjected to the radical addition reaction with allyl acetate under the formation of primary adduct A which partly rearranged to compound B and therefore a mixture of isomers A, B was obtained in this step. This mixture of isomers was converted to epoxide C. Ring opening of epoxide C with 2-hydroxyethyl methacrylate was regioselective and yielded new hydroxylated amphiphilic monomer D. Analogous reaction was carried out with methacrylic acid under the formation of monomer E.



M.Kotora, J.Kvíčala, B.Ameduri, M.Hájek and B.Boutevin,
 J.Fluorine Chem., in press.