## Investigation of the role of fluoride in hydroalkoxylation of HFP and alcohol

<u>나탈리아데비</u>, 오지희, 김홍곤, 김훈식<sup>1</sup>, 이현주\* 한국과학기술연구원; <sup>1</sup>경희대학교 (hilee@kist.re.kr\*)

The interaction of alkali fluorides with 2,2,2-trifluoroethanol (TFE) in hydrofluoroalkoxylation reaction of hexafluoropropene (HFP) with TFE have been investigated by means of FT-IR and H1-NMR. It has been found that CsF forms stronger hydrogen bonding with TFE than KF does. This goes along with the fact that KF gave the highest yield and selectivity while CsF gave large amount of olefinic and high molecular weight side products. It is suggested that size of alkali metal cation and the degree of M-F dissociation should be in the medium range for the selective production of CF3CHFCF2OCH2CF3 in high yield and selectivity.