NEW APPROACHES TO α-FLUOROACRYLIC ACID

P. M. Andres, D. Bielefeldt, K. R. Gassen, W. Lange and A. Marhold

Zentrale Forschung der Bayer AG, D-5090 Leverkusen (F.R.G.)

Three new routes to derivatives of α-fluoracrylic acid including a laboratory synthesis and a large scale method are presented which comprises of i) addition of elementary fluorine to acrylic esters and subsequent elemination of HF, ii) addition of difluorocarbene to isopropenyl methyl ether, oxidation via ring opening and dehalogenation, and iii) 'nitrofluorination' of 2,3-dichloropropene, hydrolysis and dechlorination.