

PREPARATION OF CF_3-COCl : INVESTIGATION OF OPERATING PARAMETERS

L. Marangoni, G. Guglielmo

MONTEDISON S.p.A., Divisione Prodotti per l'Industria, Laboratorio Ricerche Fluorocomposti/P.Marghera (Italy)

L. Conte

Università di Padova, Istituto Chimica Industr./Padova (Italy)

The preparation of CF_3-COCl through reaction between CF_3-CCl_3 and SO_3 was investigated with particular reference to the following operating parameters: catalyst type and concentration, molar ratio $C_2Cl_3F_3/SO_3$ and composition of the isomeric mixture $CF_3-CCl_3/CClF_2-CCl_2F$.

Such preparation was first investigated either batchwise or semi-continuously, in order to define at best the above parameters. It was then effected continuously on proper equipment, which allowed to separate the CF_3-COCl at a degree of purity adequate to its direct use in the preparation of trifluoroacetic compounds.