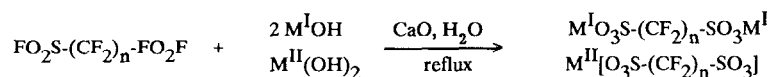


REACTIONS OF PERFLUOROALKANE- α, ω -DISULFONYLDIFLUORIDE

P. Sartori and P. Langer

Fachgebiet Anorganische Chemie, University of Duisburg, Lotharstr.1, 4100 Duisburg 1,
F.R.G

The alkaline hydrolysis of the title compounds $\text{FO}_2\text{S}-(\text{CF}_2)_n-\text{SO}_2\text{F}$ (with $n = 3 - 5$) gives stable salts in practically quantitative yields and high purities according to:



$\text{M}^{\text{I}} = \text{K, Li, Cs}$ and $\text{M}^{\text{II}} = \text{Ba}$

The corresponding Perfluoroalkane- α, ω -disulfonic acid hydrates can be obtained by cation exchange from the salts.

The silver salts are prepared by reacting Perfluoroalkane- α, ω -disulfonic acid hydrates with Ag_2CO_3 in aqueous suspension.

By reaction of Alky- and Phenylsilyl chlorides (R_3SiCl and R_2SiCl_2 with $\text{R} = \text{Me, Ph}$) with the silver salts, the corresponding silylesters can be synthesized.

All compounds are characterized by spectroscopic data (nmr, ir, ms) and analysis.