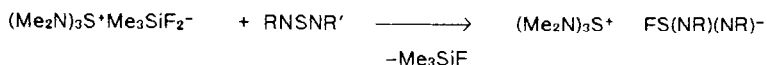


FLUROALKYL-SULFURDIIMIDES

G. Knitter and R. Mews

Institut für Anorganische und Physikalische Chemie
der Universität Bremen, Leobener Straße NW2, DW-2800 Bremen 33 (F.R.G.)

Only little is known about the chemistry of fluoroalkyl-sulfurdiimides. Either from R_fNSF_2 and $R'_N(SiMe_3)_2$ or from R_fNX_2 ($X=Cl, Br$) and S_4N_4 various sulfurdiimides, e.g. $RNSNR'(R=CF_3CH_2, R'=CF_3, C_2F_5, SF_5)$, the cyclic system CF_2-CF_2-NSN and the known perfluorinated derivatives $R_fNSNR_f(R_f=CF_3, C_2F_5, SF_5)$ were isolated. Sulfurdiimides with electronwithdrawing groups accept F^- under formation of bis(imido)fluorosulfates $FS(NR_f)_2^-$ with an interesting stereochemistry:



The limitations of this reaction with respect to R and R', the spectroscopic properties of the bis(imido)fluorosulfate anions and their chemistry will be reported.