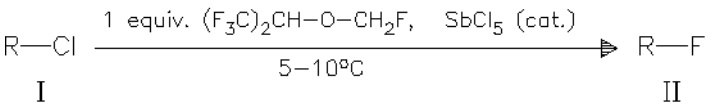
substitution reactions

O 0040

28 - 046

The Fluoromethyl Ether Sevoflurane as a Fluoride Source in Halogen-Exchange Reactions. — The new anesthetic sevoflurane and related fluoromethyl ethers are found to act as fluoride donors in $SbCl_5$-catalyzed halogen-exchange reactions. Unlike many commonly used fluorinating agents, high selectivity for monofluorination is achieved under appropriate conditions. — (ROZOV, L. A.; LESSOR, R. A.; KUDZMA, L. V.; RAMIG, K.; J. Fluorine Chem. 88 (1998) 1, 51-54; Ohmeda Inc., Pharm. Prod. Div., Murray Hill, NJ 07974, USA; EN)



I II

a	R: $-CCl_3$	67%
b	R: $-CCl_2-O-CH(CF_3)_2$	72% (NMR)
c	R: $-CHCl-O-CH(CF_3)_2$	35% (NMR)
d	R: $-CFCl-O-CH(CF_3)_2$	80%
e	R: $-CCl_2-O-CHCl-CF_3$	57% (NMR)