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STUDIES ON REACTIVE ORGANOFLUORINE COMPOUNDS AND INTERMEDIATES

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Aspects of the chemistry of the radicals $(CF_3)_2N\cdot O\cdot$ and $(CF_3)_2N\cdot$; of the diradical $\cdot O\cdot N(CF_3)\cdot CF_2\cdot CF_2\cdot N(CF_3)\cdot O\cdot$; of the N-O-N compound $(CF_3)_2N\cdot O\cdot N(CF_3)_2$; of the aza-olefin $CF_3\cdot N:CF_2$; of the nitroso-compound CF_3NO ; and of the hydroxylamine $(CF_3)_2NOH$ are surveyed.

Special attention is given to the novel chemistry often displayed, including formation of unusual ring structures ; rearrangement reactions ; the synthesis and properties of aromatic, aliphatic and heterocyclic compounds containing the $(CF_3)_2N\cdot O-$ or $(CF_3)_2N-$ group ; the $(CF_3)_2N\cdot O-$ derivatives of silicon and sulphur ; the nitroxy derivatives of platinum and iridium ; and the use of $(CF_3)_2NOH$ as a trap for carbocations.