## ON THE SYNTHESES OF SOME XENON(VI) FLUOROPLUMBATES(IV) AND FLUOROSTANNATES(IV)

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So far, the reactions of xenon hexafluoride with Group IV'A' tetrafluorides have been reported only for germanium and tin [1,2]. During a systematic study of the system  $XeF_6 - SnF_2$ , besides the known  $4XeF_6.SnF_4$  (1), the compounds  $2XeF_6.SnF_4$ ,  $4XeF_6.3SnF_4$ ,  $3XeF_6.4SnF_4$  and  $XeF_6.4SnF_4$  were also isolated. Recently the study was extended to the system  $XeF_6 - PbF_2$  where three new compounds,  $4XeF_6.PbF_4$ ,  $3XeF_6.4PbF_4$  and  $XeF_6.4PbF_4$  were isolated. On the basis of Raman and IR spectra, the 4:1 compounds could be confidently formulated as  $(Xe_2F_{11}^*)$  salts, while the other compounds, with the exception of  $2XeF_6.SnF_4$  could be formulated as  $XeF_5^*$  salts with polymeric anions. The differences between published Raman spectra of the  $XeF_5^*$  ion in its complexes with monomeric anions and its Raman spectra in the complexes with polymeric anions will be discussed.

- 1 K.E. Pullen, G.H. Cady, Inorg. Chem., 5, 2057 (1966)
- 2 K.E. Pullen, G.H. Cady, Inorg. Chem., 6, 1300 (1967)