

Abstract Submitted
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Structural NMR investigation of antimony pentafluoride C. TREVENEN, F. RIVERA, H. MARTIN, J. FUTIA, R. MICHALAK, University of Wyoming — Antimony pentafluoride, SbF_5 , is a very viscous liquid at room temperature whose structural details are not well understood. The distribution and relative abundances of fluorine coordination clusters as a function of temperature are of great interest for the emerging catalyst role of doped SbF_5 . We have carried out fluorine NMR studies between the vaporization and solidification temperatures of SbF_5 . Three distinct fluorine coordinations are identified and the changes of their relative abundances are studied as a function of heating and cooling.

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