



## $^1\text{H}$ NMR, DSC, dielectric and dilatometric studies of phase transitions and molecular dynamics in $\text{N}(\text{C}_2\text{H}_5)_4\text{SbCl}_4$ .

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### Streszczenie

The results of dielectric, dilatometric,  $^1\text{H}$  NMR, and DSC studies on  $\text{N}(\text{C}_2\text{H}_5)_4\text{SbCl}_4$  crystals are presented. The title compound undergoes two phase transitions at  $T_{c1} = 272$  K reversible of first order and at  $T_{c2} = 393$  K irreversible. The values of transition entropies and enthalpies are compared with those of other tetraethylammonium halogenoantimonates and bismuthates (III). The spin-lattice relaxation times and the values of the second moments of the  $^1\text{H}$  NMR line for the  $\text{N}(\text{C}_2\text{H}_5)_4\text{SbCl}_4$  crystal are measured in the temperature range of 70 to 400 K. Two minima of  $T_1$  are observed. They are attributed to  $\text{CH}_3$  group reorientations. The activation energies for the processes are determined.

### Adres publiczny

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### Strona internetowa wydawcy

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