

NMR study of guanidinium cation dynamics in $C(NH_2)_3SbCl_6$.Autorzy

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Streszczenie

Proton NMR second moment and spin—lattice relaxation times T_1 and $T_{1\rho}$ have been studied for polycrystalline guanidinium hexachloroantimonate $C(NH_2)_3SbCl_6$ in a wide temperature range. A dynamic inequivalence of two cations has been detected in spite of their crystal-lographical equivalence. Activation parameters for C_3 reorientation and self-diffusion of the more mobile cation have been determined. It was shown that the para–ferroelastic phase transition at 351 K is connected with abrupt changes in the dynamics of the two cations. The weaker, second-order transition at 265 K is thought to be related to a change in the dynamics of one of the cations.

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