

## Dielectric dispersion, dilatometric and infrared studies of tris(guanidinium) ennechlorodiantimonate(III) ([C(NH<sub>2</sub>)<sub>3</sub>]<sub>3</sub>Sb<sub>2</sub>Cl<sub>9</sub>).

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The results of dielectric dispersion, dilatometric and infrared studies on a new member of the family of alkylammonium halogenoantimonates ([C(NH<sub>2</sub>)<sub>3</sub>]<sub>3</sub>Sb<sub>2</sub>Cl<sub>9</sub>) are presented. A dielectric dispersion was found in a broad temperature range from 150 to 100 K. The temperature characteristic of the electric permittivity,  $\epsilon'$ , measured at a static frequency (1 kHz) suggests the presence of a phase transition at about 105 K. The dilatometric studies revealed only subtle changes in the expansion coefficient at this temperature. The infrared spectra in the temperature range 14–300 K do not show any distinctive changes. The results suggest that the guanidinium cations are stabilized in a crystal lattice by weak hydrogen bonds.

### Adres publiczny

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