

An NMR solid-echo Study of Guanidinium Cation Reorientation in $[\text{C}(\text{NH}_2)_3]_3\text{Sb}_2\text{Cl}_9$

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The NMR solid-echo polycrystalline tris-guanidinium nonachlorodiantimonate (III) has been studied in a wide temperature range. The temperature dependences of a time position and an amplitude of solid-echo are characterized by minima at ca. 143 K and 273 K, which are assigned to the reorientation of two dynamically inequivalent guanidinium cations $[\text{C}(\text{NH}_2)_3]^+$. The motional parameters of the two types of guanidinium cations have been determined. — PACS: 64.70K; 76.60.E

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