Molecular motions in solid $[N(CH_3)_2H_2]_3Sb_2I_9$ studied by proton nuclear magnetic resonance spectroscopy.

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Molecular motions and phase transition in [N(CH3)2H2]3Sb2I9 was studied by measuring the temperature dependencies of the proton spin-lattice relaxation times T1 and the second moment M2. The results are interpreted in terms of the C'3 reorientation of the methyl groups and the whole cationic reorientation about the C2 axis. The activation parameters for these motions have been determined. The phase transition has no influence on the M2 and the T1 values, thus suggesting that it is not directly connected to the motion of the cation but rather to the dynamics of the inorganic subsystem [Sb2I9]3-.

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