^{35}Cl NQR and ^{1}H NMR studies of molecular motions in guanidinium salt of chloroacetic acid.

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Streszczenie

Multinuclear NQR and NMR techniques have been applied in order to study the moleculardynamics in [C(NH2)3](ClH2CCOO). The35Cl NQR frequency was measured over a wide rangeof temperature. The experimental results were described by using the theories of Bayer and Brownwhich take into account the torsional oscillations of the CClH2-group of the anion.A study of the proton NMR second moment as well as relaxation timesT1andT1performedin a wide temperature range revealed an onset of the guanidinium cation reorientation around itstwo-fold symmetry axis. Activation parameters for this motion were determined.

Adres publiczny

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