

Reorientational and vibrational relaxation in liquid trichloroacetonitrile.

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The first- and second-order reorientational correlation functions were determined from i.r. and Raman bandshapes of $\nu_s(\text{CN})$ in liquid trichloroacetonitrile and discussed in terms of the J -diffusion model. A consistent fit for $G_{1r}(t)$ and $G_{2r}(t)$ was possible for short times only (0–1.5 ps). The vibrational correlation functions, determined from Raman studies of the $\nu_s(\text{CN})$ and $\nu_s(\text{CC})$ bandshapes, are discussed in terms of recent theories of vibrational dephasing.

Adres publiczny

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