

Vibrational relaxation and molecular dynamics of liquid ethynyltrimethylsilane and ethynyltrimethylsilane-d₁.

Autorzy

Roman Szostak

Jerzy P. Hawranek

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The reorientational and vibrational correlation functions were determined for the $\nu_s(\text{C} \equiv \text{C})$ vibration of liquid ethynyltrimethylsilane and ethynyltrimethylsilane - d₁ from Raman bandshape studies. The vibrational relaxation is discussed in terms of Kubo's vibrational dephasing theory whereas the reorientation in terms of the J-diffusion model.

Adres publiczny

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