



Infrared bandshapes of intramolecularly H-bonded systems-III. Vibrational dephasing of $\nu_s(\text{OH})$ in 2,6-dichlorophenol

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The shape of the $\nu_s(\text{OH})$ absorption band of intramolecularly H-bonded 2,6-dichlorophenol was measured in a series of solvents of increasing polarity and quantitatively analyzed. A distinct dependence of band positions, shape parameters, band moments, integrated intensities, correlation functions and correlation times on the polarity of solvent has been found. Vibrational dephasing due to dipole—dipole interactions seems to be an important relaxation pathway determining the bandshape in the studied systems.

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