Vibrational dephasing of υ_S(OH) in 2,4-dichlorophenol.

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A quantitative analysis of the infrared bandshape of υ_S(OH) in intramolecularly hydrogen-bonded 2,4-dichlorophenol in a series of solvents is presented. A distinct dependence of bandshape indices and relaxation parameters on the polarity of solvent has been found. The band shifts to lower wavenumbers, broadens and becomes more intense with increasing solvent polarity; correspondingly, the correlation function decays faster and the correlation time diminishes. The results are compared with those for previously studied systems. Factors influencing the bandshape are discussed.

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