



IR band shape of $\nu_s(\text{CH})$ of Pentachlorethane and Bromoform.

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The shape of the $\nu_s(\text{CH})$ absorption band of Pentachlorethane and Bromoform was measured in several aprotic solvents and neat liquids and quantitatively analyzed. The bandshape was described in terms of profile indices, asymmetry factors, correlation functions and correlation times. A pronounced, solvent dependent asymmetry of the band was detected; not only the half-widths, but also the intensities and profiles on both sides differ markedly. A discussion of possible shaping mechanisms reveals that the bandshape is dominated by vibrational relaxation.

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