Determination of the molar absorption coefficient for the second overtone of an OH stretching mode of Z-9-otadecen-1-ol.

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Streszczenie

Fourier transform neur-infrared spectra of *Z*-9-octadecen-1-ol in CCl_4 solutions have been measured to determine the molar absorption coefficients for both the first and second overtones of an OH stretching mode of its monomer. At concentrations below 1.4×10^{-2} M, the alcohol exists completely in its monomeric form, and from the absorbance-concentration plots, the molar absorption coefficients have been obtained to be 103 and 5.03 $dm^3\ mol^{-1}\ cm^{-1}$ for the integrated absorbances (band area) of the first and second overtones, respectively.

Słowa kluczowe

Near-infrared spectrometry, Fourier transform, Overtones, Z-9-Octadecen-1-ol, Hydrogen bonding, Molar absorption coefficient

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