

Vibrational spectra of liquid 1-propanol.

Autorzy

Natalia Michniewicz
Andrzej S. Muszyński
Władysław Wrzeszcz
Mirosław A. Czarnecki
Barbara Golec
Jerzy P. Hawranek
Zofia Mielke

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Streszczenie

The spectrum of the complex refractive index in the 12,000–100 cm⁻¹ region was determined for liquid Propan-1-ol from transmission studies. In the MIR region, very thin layers with thicknesses of a few micrometers had to be used to obtain reliable data. Liquid Propan-1-ol is totally associated via hydrogen bonds. To obtain information on the aggregation low-temperature IR spectra in argon matrixes were recorded. An attempt to elucidate the structure of formed adducts was made. FT-Raman spectra of the liquid are also reported. Identifications for numerous bands observed in the liquid phase were proposed basing on literature data and results of DFT calculations.

Słowa kluczowe

Propan-1-ol, Thin film IR spectra, IR dispersion, Raman spectra, Hydrogen bonding

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