



Infrared dispersion of liquid tripropylamine.

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Streszczenie

The spectra of the real and imaginary components of the complex refractive index were determined from thin-film transmission studies of liquid tri-*n*-propylamine (TPA) using a new method, which takes into account the dispersion of the refractive index in the visible range and integration over the entire NIR, IR and FIR absorption regions. From these data, the spectra of both components of the complex electric permittivity and complex polarizability of liquid TPA were determined in broad optical range (25,000–150 cm⁻¹). Related high-frequency dielectric properties, especially the molar vibrational polarization of the liquid related to various spectral ranges has been determined and discussed. It has been found to be extremely small for overtones. The main contribution stems from deformation modes of the molecule.

Słowa kluczowe

Infrared dispersion, Polarizability, Dielectric properties

Adres publiczny

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