



## Infrared dispersion of the pentachlorophenol-trioctylamine complex.

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### Streszczenie

The optical constants of the hydrogen-bonded complex of pentachlorophenol with tri-*n*-octylamine in binary systems were determined in the MIR range using a thin film transmission technique, which takes into account the dispersion of the refractive index in the visible region and the absorption in the NIR and MIR ranges. From these data the spectra of both components of the complex electric permittivity in the NIR and MIR regions and related high-frequency dielectric properties of the studied hydrogen-bonded complex were determined and discussed. A considerable increase of the molar vibrational polarization due to the hydrogen bond formation has been demonstrated. The vibrational polarization of the hydrogen bond exceeds the electronic polarization of this bond in the studied complex considerably. The results have been compared with data obtained previously for related systems.

### Słowa kluczowe

Infrared dispersion, Hydrogen bonding, Pentachlorophenol-tri-*n*-octylamine complex

### Adres publiczny

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