

## Integrated intensity of $\nu_s(\text{OH})$ absorption bands in bent hydrogen bonds in *ortho*-dialkylaminomethyl phenols.

### Autorzy

Aleksander Filarowski

Aleksander Koll

### Rok wydania

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### Czasopismo

Vibrational Spectroscopy

### Numer woluminu

12

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### Streszczenie

The FT-IR spectra of 16 *ortho*-Mannich bases and its deuterioanalogues in the region of OH/OD absorption bands were determined in CCl<sub>4</sub> solution. Separation of  $\nu_s(\text{CH})$  bands was achieved by applying the technique of deuterium substitution at the phenolic OH group. The spectroscopic effect of this substitution on the CH absorption bands was discovered, which demonstrates that the OH ... N hydrogen bonds are stronger than in the analogous OD ... N complexes. It was shown that the integrated intensity of the OH bands in bent hydrogen bonds is distinctly lower than in the respective linear ones. A good correlation of the integrated intensity with the hydrogen bond strength was obtained.

### Adres publiczny

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### Strona internetowa wydawcy

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