

Infrared study of solids and cast films of long-chain fatty acids.

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Infrared spectra have been measured for five long-chain fatty acids ($\text{CH}_3(\text{CH}_2)_n \text{COOH}$; $n=14-18$) in solid states, KBr discs and cast films. The acids with even- and odd-numbered carbon atoms show structural differences, not only in the solid states but also in the cast films. For example, the molecular orientation of the hydrocarbon chains and the directions of *a* and *b* axes of the orthorhombic subcell in the cast films on Au-evaporated glass slides are different in the even-numbered and the odd-numbered acids.

Adres publiczny

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