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Preparation and Physicochemical Properties of New Crystalline Complexes Composed of Fatty Acids and 3-Aminopyridine*

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New crystalline complexes composed of fatty acids (FA) and 3-aminopyridine (3AP), FA-3AP, were prepared, and the physicochemical properties of FA-3AP were investigated by elemental analysis, differential scanning calorimetry and infrared (IR) spectroscopy and compared with those of FA-nicotinamide (NAA) complexes, FA-NAA.

The molar ratio of 3AP to FA in the FA-3AP was 1 : 1, the same as FA-NAA. The melting points of FA-3AP were lower than that of the corresponding FA-NAA and FA alone. The relationship between the melting points of FA-3AP and the carbon number (n) of the constituent FA took a linear form as shown in FA-NAA, whereas the relationship between the melting points of FA and n took a zig-zag one. In the IR spectrum, the absorption band near 1700 cm^{-1} which is the characteristic of the carbonyl stretching vibration was shifted to higher frequency fields by the formation of FA-3AP as observed for FA-NAA. The binding of 3AP to FA seemed to be similar to that of NAA.

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