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Interaction between Thiaminetetrahydrofurfuryl Disulfide with Fatty Acid in 1,2-Dichloroethane

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The interaction between thiamine tetrahydrofurfuryl disulfide (TTFD) and saturated fatty acid (FA) in 1,2-dichloroethane at 25°C was studied by phase solubility analysis using FA with various carbon numbers (14, 16, and 18), stearyl alcohol, and stearic acid methyl ester. The solubility of TTFD increased with the addition of FA. The solubility of TTFD also increased with the addition of stearyl alcohol, while its solubility decreased when stearic acid methyl ester was added.

It was found that the solubility of stearic acid also increased with the addition of TTFD, and that TTFD cannot form a crystalline complex with stearic acid.

These results are compared with those obtained for thiamine disulfide (TDS) and cycotiamine. The mode of the solubilization of TDS by FA in 1,2-dichloroethane, and its relation to the crystallization of the complex between TDS and FA was discussed.

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