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Association of Octadecanoic Acid in 1,2-Dichloroethane*

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The association of octadecanoic acid (C18) in 1,2-dichloroethane at 40°C has been investigated by measuring the fluorescence spectra and intensities of ammonium 8-anilino-1-naphthalenesulfonate as a probe.

As a result, it has been found that C18 begins to associate at a concentration of $1.0\text{--}1.2\times 10^{-2}$ mol dm⁻³ and that the aggregation number is small and constant in the concentration region above about 4×10^{-2} mol dm⁻³.

The mechanism for the formation of fatty acid (FA)-thiamine disulfide (TDS) complexes, (FA)₆(TDS), was also discussed.

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