

Viscosity of Mixtures of α -Tocopherol Acetate + Mesitylene

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The paper presents results of the share viscosity measurements performed as a function of temperature and concentration for mixtures of α -tocopherol acetate (vitamine E acetate) and mesitylene, two liquids of essentially different viscosity (four order of magnitude difference at 280 K). The viscosity/temperature dependence for pure α -tocopherol acetate as well as for the mixtures studied can be well described with the Vogel-Fulcher-Tammann equation. The viscosities of the mixtures exhibit a strong negative deviation from the rule of additive dependence on concentration and for increasing temperature the maximum value of the deviation shows an exponential decreasing.

Key words: α -Tocopherol Acetate; Vitamine E; Mesitylene; Share Viscosity;
Vogel-Fulcher-Tammann Equation.