

Research study of phase equilibriums in two-component system carbon tetrachloride – *n*-hexadecane

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Abstract

Using the method of low-temperature differential thermal analysis with application of differential scanning calorimeter for thermal flow we have investigated the phase equilibriums in the two-component system of carbon tetrachloride – *n*-hexadecane. As the result of the researches there have been obtained a diagram of state with eutectics. The experimentally specified composition of eutectics (mol. %) is: carbon tetrachloride – 97.87, *n*-hexadecane – 2.13. Melting temperature for eutectic structure makes up –27.0 °C. The presumptive eutectic structure of the system carbon tetrachloride – *n*-hexadecane, calculated by the equation of Shreder – Le Chatelier, is as follows: carbon tetrachloride – 98.21 *n*-hexadecane – 1,79. Calculated melting temperature for the eutectic structure makes up –26.8 °C.