

THE ELASTICITY CONSTANTS TEMPERATURE DEPENDENCE IN THE TETRAPALLADIUM ORGANYL (TPO)–PENTADECANE SYSTEM

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Temperature dependence the ratio K_{11} , K_{33} , ε_a , Δn of nematic phase of calamitic in the TPO–pentadecane system has been experimentally determined. The samples for the investigation were prepared according to the methodics described in [1]. TPO concentration in solution was 45 mass. %. At this concentration the nematic phase exists in temperature of 47÷76 °C. The data on ratio K_{11} , K_{33} a derived from temperature dependence of threshold Frederiksz field for S-effect. The methods of measuring and experimental data development presented in [1]. The results of the research are presented on the plots.

References

(1) A. Golovanov, G. Ryabcyuk, *Colloid Journal*, **2008**, V. 70 №3, p. 299

