PECULIARITIES OF THE TEMPERATURE DEPENDENCE OF KINEMATIC SHEAR VISCOSITY OF FLUORINE DERIVATIVES OF BENZENE

M.P. Malomuzh[1], *O.P. Rudenko*[2], *A.M. Khlopov*[2], *L.M. Yagupol's'kyi*[3]

[1]Odesa National University, Chair of Theoretical Physics (*2, Dvoryans'ka Str., Odesa 65026, Ukraine*),
[2]V.G. Korolenko Poltava State Pedagogical University (*2, Ostrograds'kyi Str., Poltava 36003, Ukraine*),
[3]Institute of Organic Chemistry,
Nat. Acad. of Sci. of Ukraine
(*5, Murmans'ka Str., Kyiv 03022, Ukraine*)

S u m m a r y

We study the temperature dependence of the kinematic shear viscosity of ten fluorine derivatives of benzene. Experimental data are obtained in the temperature interval $(293 \div 363)$ K. It is shown that the temperature dependence of the majority of investigated fluids has the same character as that of benzene and argon which are simpler by their structure. We deduce a formula adequately describing a behavior of the viscosity of fluorine derivatives of benzene. It is established that only the viscosity of 1,3-bistrifluormethylbenzene has activation character.