INFLUENCE OF FLUORINATION ON THE PHYSICAL PROPERTIES OF NORMAL ALIPHATIC ALCOHOLS

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S u m m a r y

Rheological properties of normal aliphatic alcohols and their fluorinated analogs have been studied. The temperature dependences of the density and the kinematic viscosity of fluorinated and normal alcohols are shown to have the same character. The density growth for fluorinated alcohols is revealed, with the shear viscosity growing more pronouncedly, if more hydrogen atoms in the alcohol molecule are substituted by fluorine ones. The calculated thermodynamic properties of a viscous flow testify that fluorinated aliphatic alcohols are more structured in comparison with normal ones.