

EQUATIONS OF CRITICAL VISCOSITY  
AND LIMITS OF THEIR APPLICATION

*O.D. Alekhin*

Taras Shevchenko Kyiv National University,  
Faculty of Physics  
(6, Academician Glushkov Prosp., Kyiv 03127, Ukraine)

S u m m a r y

On the basis of available experimental data on the behavior of liquid systems near the critical temperature, we define the limits of application of the equations of critical viscosity which are proposed on the basis of the theory of dynamical scaling. It is shown that the reciprocal value of the wave vector in these equations equals to the correlation length on the boundary of the hydrodynamic region.