

ON THE QUESTION OF A CHANGE OF LIQUID
PROPERTIES DUE TO THE GENERATION
OF CAVITATION

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S u m m a r y

Experimental study of the influence of the cavitation process on the viscosity of a liquid is described. For the first time, the cavitation regime of the sonocapillary (SC) effect has been used as a method for investigation of properties of a liquid in the ultrasound field. It is shown that a momentary cavitation action causes the viscosity of a liquid to decrease by several times. The effect is reversible, i.e. over the capillary length, there takes place a partial or complete viscosity relaxation to its initial value. Possible causes of the phenomenon revealed are analyzed; these include the local heating of a liquid and the partial decomposition of its supermolecular structure.