

ELECTROPHYSICAL PROPERTIES OF LIQUID  
CRYSTALLINE SYSTEMS ON THE BASE  
OF SUBSTANCES OF THE SYNTHETIC  
AND BIOLOGICAL ORIGIN

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S u m m a r y

Conductivity, mobility, and activation energy of carriers in liquid crystalline systems formed by molecules of the synthetic and biological origin are measured at various electrical field strengths in a wide temperature range. Processes taking place in these systems due to the influence of electrical field and temperature are discussed. The similarity of results for synthetic liquid crystals and components of biological membranes is noted.