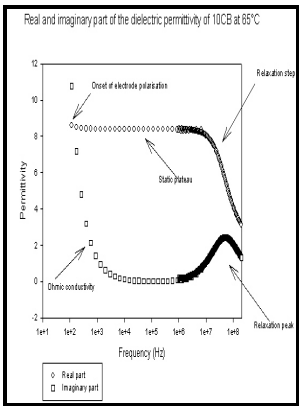
Dielectric relaxation and molecular structure

Research Institute of Applied Electricity, Hkokkaido University - Dielectric relaxation and molecular dynamics of liquid crystalline side



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Microwave Absorption and Molecular Structure in Liquids. LIII. Hydrogen Bonding and Dielectric Properties in Chloroform Mixtures

The thermal effects are associated with dissipation of energy as dielectric loss in the medium that influence significant changes in their dielectric properties. Static dielectric constant ε 0 , relaxation time τ , Kirkwood g and effective Kirkwood correlation factor g eff , Activation energy ΔF , Dielectric strength Δ ε , Conductivity σ of Pyrazine and Water mixture at various temperature and mole fraction. Then, the sample with laminated coatings was placed in the thermostabilized four-electrode cell, which permitted to control the sample thickness during measurements using an additional air-dielectric capacitor.

Crystal Structure, Stoichiometry, and Dielectric Relaxation in Bi3.32Nb7.09O22.7 and Structurally Related Ternary Phases

The Raman measurements show that the recrystallized sample is in the metastable form. The current required to maintain the field at different frequencies is measured and allows the calculation of the in-phase and out-of-phase dielectric response.

Microwave Absorption and Molecular Structure in Liquids. LIII. Hydrogen Bonding and Dielectric Properties in Chloroform Mixtures

The linear dependency of density on temperature is generally accepted and expected that both density and viscosity of all concentrations of the mixture decrease is evident from the reduction in static dielectric permittivity with raise in temperature. Zeitschrift für Physikalische Chemie 1978, 109 2 , 129-143.

Dielectric relaxation and molecular dynamics of liquid crystalline side

Orientation effects and their dielectric properties are indicated by surface dipole potential charges by displacement of oriented solvent. Export citation and abstract Pyrazine is a heterocyclic aromatic organic compound with equal numbers of carbon and hydrogen with nitrogen half of it. In the present work, dielectric relaxation of supercooled liquid and glassy states of nilutamide is studied with broadband dielectric spectroscopy.

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