Dielectric dispersion in water + 2-hydroxypyridine solid mixtures.

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The complex electric permittivity was measured in water + 2-hydroxypyridine (2HP) solid mixtures as a function of concentration, temperature and frequency. Just after freezing of diluted mixtures, (mole fraction of 2HP < 0.2) pronounced dielectric dispersion in the MHz region was observed. The dispersion disappears on cooling between −30 and −40 °C in a first-order phase transition. The dispersion was explained in terms of the movement of a guest molecule (2HP) in a clathratelike structure of ice.

Słowa kluczowe

Colloids, Differential scanning calorimetry, Insulators, Mixtures, Molecules

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https://www.acs.org/content/acs/en.html