Temperature Dependence of Dielectric Constant of Some Polar And Non polar Liquids.

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Abstract

In this talk, I will discuss about Measurements carried out to study the temperature dependence of dielectric constants of polar (ethyl acetate, nitrobenzene) and non polar liquid (Benzene). The temperature range was varied from room temperature down to their freezing point of the substances. I will also talk on the effect of addition of polystyrene on transition width of nitrobenzene on freezing and variation of loss tangent of n-butyal acetate and polystyrene binary mixture with volume fraction of polystyrene.