

ABSTRACTS

16: Horváth, B., Szalai, I., Linear and nonlinear dielectric properties of chloroform-bromoform and chloroform-dichloromethane liquid mixtures, *J. Molec. Liquids.*, 189 (2014) 81–84

Experimental linear and nonlinear dielectric permittivity and density data have been obtained for chloroform–bromoform and chloroform–dichloromethane liquid mixtures with different mole fractions at $T = 298.15$ K temperature. The experimental linear and nonlinear dielectric permittivity data are compared with the corresponding mean spherical approximation (MSA) based theoretical results. The comparison shows that the molecular dipole moments obtained from the MSA overestimate the gas-phase experimental dipole moments. Using the corresponding pure-component fitting data, the linear and nonlinear dielectric properties of the mixtures can be described within the experimental error.