Density, Refractive Index and Kinetic Viscosity of Dimethyl Carbonate, Methyl Phenyl Carbonate and Anisole in Dependence on temperature and Excess and deviation property of the binary system Methyl Phenyl Carbonate contained system at 298.15 K

<u>신상홍</u>, 황인찬, 박소진* 충남대학교 (sjpark@cnui.ac.kr*)

In this paper, density, viscosity and kinetic viscosity were measured for DMC, MPC, anisole, methanol at (288.15 to 318.15) K and atmospheric pressure. The experimental data were correlated the Daubert and Danner equation, the linear equation and the Goletz and Tassion equation.

Excess molar volume (VE) and deviations in molar refractivity (ΔR) at 298.15 K are reported for the binary systems: {MPC + DMC]}, {MPC + anisole}, {MEK + methanol}. The determined VE and ΔR were correlated with the Redlich-Kister equation. And the binary density and refractive index data at 298.15 K were predicted with several mixing rules.

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