

Viscosity and Surface tension measurement for choline chloride based binary solutions

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Viscosity and surface tension are important physical property data providing information on the chemical structure of a substance and a process. Viscosity has great effect on a flow rate of a fluid and surface tension provides information on the influence of the interacting molecules. Recently, choline chloride based binary solutions which has a low melting point have attracted much attention. The solutions are eco-friendly and economical and exist as a liquid at room temperature. Because viscosity and surface tension are greatly affected in temperature, the solutions need physical property data before the solutions are used in a process. In this study, three types of choline chloride based binary solutions were prepared to measure viscosity and surface tension with respect temperature. it is expected that the results would be used for various chemical processes.