

Physical Sciences



VISCOSITY OF PRYIDINE-ACETIC ACID MIXTURES

Lilah Bell Heck, Norman, Oklahoma

(Abstract)

From viscosity data it has been suggested that a definite compound is formed between pyridine and acetic acid. Maxima in viscosity have been reported for mixtures of various composition.

Density and viscosity measurements were made for the pure components and for a series of mixtures at five temperatures from 30° to 80° C.

Both density-composition and viscosity-composition curves show very pronounced maxima at 83 mol per cent acetic acid. These maxima were independent of the temperature.

Constancy of composition of the mixture having maximum density and viscosity indicates the formation of a very stable complex between pyridine and acetic acid. No evidence was found to indicate the presence of maxima for mixtures of different composition.

