E -20

ON SOLUTION — VAPOUR EQUILIBRIA FOR MULTICOMPONENT SYSTEMS

S. G. Canagaratna
(*Dept. of Chemistry, University of Peradeniya*)

and **M. Maheswaran**
(*Dept. of Mathematics, University of Peradeniya*)

The relative activities of components in solution are frequently determined using partial vapour pressures of gases in equilibrium with liquid solution. Since a large number of measurements are usually involved, a check for the self-consistency of the measurements is useful. In the case of binary systems a check for self-consistency is available in terms of the relative volatility.[1] In this paper, equations are derived for extending this method to multicomponent systems.

Reference

1. Guggenheim, E. A. (1957). Thermodynamics, 3rd ed., Amsterdam : North Holland Publishing Co.