Mathcad로 methanol/3-methyl-1-butanol계의
기액평형치의 추산

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The vapor-liquid equilibrium data, which are necessary for the design of distillation columns in separation processes, measured for the binary systems of methanol/3-methyl-1-butanol at constant temperatures of 50, 55, 60, 65,and 70℃,respectively. The compositions of the vapor and liquid phases were analyzed by measurement of refractive index. the study shows that the relationships between the logarithmic values of relative volatilities and the liquid phase compositions in the binary systems are expressed as linear functions. The linear relationships between two values are satisfied for methanol/3-methyl-1-butanol systems in the range of temperatures measured as well. For the data collection, Mathcad 2001 program is used. This empirical equation can be applied to the Methanol/3-methyl-1-butanol system.