

## Measurement of Lower Flash Points of n-Butanol+ Acetic Acid System Using Pensky-Martens Closed-Cup Apparatus

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The lower flash points for n-butanol+ acetic acid system were measured by Pensky-Martens closed cup tester. The experimental results showed the minimum in the flash point versus composition curve. The experimental data were compared with the values calculated by the reduced model under an ideal solution assumption and the flash point-prediction models based on the Van Laar and Wilson equations. The experimental results were in agreement with the predictive curves, which use the reduced model under an ideal solution assumption. The prediction results of this model can thus be applied to incorporate inherently safer design for chemical processes.