



Practical Data Correlation of Flashpoints of Binary Mixtures by a Reciprocal Function: The Concept and Numerical Examples

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Simple data correlation of flashpoint data of binary mixture has been developed on a basis of rational reciprocal function. The new approximation requires has only two coefficients and needs the flashpoint temperature of the pure flammable component to be known. The approximation has been tested by literature data concerning aqueous-alcohol solution and compared to calculations performed by several thermodynamic models predicting flashpoint temperatures. The suggested approximation provides accuracy comparable and to some extent better than that of the thermodynamic methods.

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