

Consistency test on binary LLE data with pade approximation

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Thermodynamic properties data are the basic materials that can be utilized in chemical process design, analysis, operation and control. For this purpose, NIST (National Institute for Standards and Technology) is collecting and sorting the published data. These data can be obtained from several literatures. However, these collected raw data cannot be used as reference data in real engineering field without any classification. Collected data can be verified by consistency test after classification and rearrangement. Some of this set of data contains the errors originated from the reference literature itself or the errors generated by hand-writing. In this study, we have performed the consistency test on binary LLE data among all the thermodynamic data. Some modification on thermodynamic model will be made by Pade approximation. As a result, we were able to develop a verified set of data by collecting the data of which errors are within given tolerance.