

Exploratory analysis of the thermodynamics of equilibria. Classification and prediction of strength of acetic acid.

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Abstract

Multi-dimensional exploratory techniques – factor analysis, cluster analysis, discriminant analysis, canonical analysis, the classification tree construction were used for classification and prediction of the strength of acetic acid on the basis of physico-chemical properties of mixed aqueous organic solvents. The rules of classification were formulated and the perspective for use of non-statistical methods for classification and prediction strength of acetic acid in mixed aqueous organic solvents was shown.