

热力学

磷酸及其酸式钠盐水溶液的电导预测

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摘要

关键词 [磷酸](#) [酸式盐](#) [电导方程](#) [摩尔电导率](#) [预测](#)

分类号

CONDUCTIVITY PREDICTION OF PHOSPHORIC ACID AND ITS ACIDIC SODIUM SALTS IN AQUEOUS SOLUTION

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Abstract

Phosphoric acid and its acidic sodium salts are unsymmetrical electrolytes. There exist dissociation and association equilibria among the species of these electrolytes in aqueous solutions. The molar conductivity of solution is equal to the sum of the ionic contributions. The molar conductivities of the solution and relevant ions were calculated respectively by using a new prediction equation of ionic conductivity proposed in a previous paper of the authors. The results calculated from the new equation were in good agreement with those from literature and the four-parameter Quint-Viallard's conductance equation.

Key words [phosphoric acid](#) [acidic salt](#) [conductance equation](#) [molar conductivity](#) [prediction](#)

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