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DETERMINATION OF ION EXCHANGE EQUILIBRIUM CONSTANTS FOR ...

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A stability constant (formation constant, binding constant) is an equilibrium constant for the formation of a complex in solution. It is a measure of the strength of the interaction between the reagents that come together to form the complex.There are two main kinds of complex: compounds formed by the interaction of a metal ion with a ligand and supramolecular complexes, such as host–guest ...

Determination of the thermodynamic equilibrium constants ...

The ion exchange reaction itself is almost completely isothermal, but the equilibrium constant is dependent on temperature. The exact effects of temperature depend on how the activity coefficients of the various ions change with the temperature in both

the bulk solution and in the resin.
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For the ideal ion exchange model, the equilibrium reaction can be represented by the following equation: M –++ H D M++ H–+K (2) where the bars mean the ions in the solid phase, and K is the equilibrium constant. It must be pointed out that this model failed to approximate the experimental data within the limits of their errors.

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