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Table-2: Equilibrium constant for the ion exchange reaction using ion exchange resin Tulsion A-33 calculated by Bonner et.al. equation R-Cl + I - (aq) R-I + Cl (aq) Amount of the ion exchange resin in Cl-form = 0.500 g; Ion exchange capacity = 1.5 meq. / 0.500g; Volume of I - ion solution = 100.0 mL; Temperature =30.0 0 C System Initial conc. of

The preferential transport of cupric and ferric ions through a cation exchange membrane was studied in chloride solutions with electrodialysis at constant electric field operation. Citric acid was used as a complexing agent in metal ion solution in order to increase the permselectivity of metal ions. The

The equilibrium constant for the formation of the complex ion from the hydrated ion is called the formation constant (Kf). The equilibrium constant expression for Kf has the same general form as any other equilibrium constant expression. In this case, the expression is as follows: Kf = [Cu(NH3)4]2 +] [Cu2 +][NH3]4 = 2.1 × 1013 = K1K2K3K4

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3.6 Is There Equivalence Between Adsorption Isotherm and Ion Exchange Equilibrium Constant? Previously, we stated that the materials presented in this volume may be readily applied to ion exchange processes as well. Specifically, the solute uptake mechanisms and the rate of uptake in adsorption and those of ion exchange are essentially the same.

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Ion exchange reactions are considered on the basis of chemical equivalents (i), where and are M+(N/) R ⇌N+(M/)R (i) the valencies of the respective ion, N and M, R represents the negative ion of the resin framework. The corresponding thermodynamic equilibrium constant expression is rearranged in the form (ii). Pl

Determination of the thermodynamic equilibrium constants ...

According this technique, the rational equilibrium constants of the ion exchange reactions for the weak acid cation exchange resin D725 and for the weak base anion exchange resin D705 have been determined. This technique has proved useful in the determination of rational equilibrium constant of ion exchange reaction for weakly dissociating ion exchange resin.

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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 ...

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