عنوان مقاله:

Saturated Solubility Estimation of single salt electrolyte solutions; contains of [(NaCl/H2O), (Na2SO4/H2O), (CaSO4/H2O)]; by Modified UNIFAC Dortmund model.

محل انتشار:

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خلاصه مقاله:

In this work, calculation of saturation molality in saline solutions was used in calculating of the mean ionic activity coefficients (MIAC) of electrolytes for a number of single salt electrolyte solutions at atmospheric pressure, and temperatures in the range of 20 and 80 °C. MIAC wascomposed of two parts: a) the long - range electrostatic interaction contribution. b) The short -range electrostatic interaction contribution. Long range (MIAC), was represented by Pitzer-Debye - Hückel, model and pitzer interaction parameters. Modified UNIFAC Dortmund model was used for calculation of short range (MIAC), interaction parameters between solvent group (H2O) and ions groups (Na+,Ca+2,Cl ,SO4 2) have been estimated.

کلمات کلیدی:

Electrolyte solutions; Activity coefficients; Saturation molality; Adjustable parameters

لینک ثابت مقاله در پایگاه سیویلیکا:

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