

## عنوان مقاله:

Determination and Modeling of Activity Coefficients of Sodium Bromide in (Water + N,N dimethylformamide) Mixed Solvent System at 298.2 K

## محل انتشار:

بیست و یکمین کنفرانس شیمی فیزیک انجمن شیمی ایران (سال: 1397)

تعداد صفحات اصل مقاله: 1

## نویسندگان:

Hajar Akbarinezhad - *Department of Chemistry, Faculty of Science University of Guilan, P., O. Box: 19141, Rasht, Iran*

Bahram Ghalami-Chooobar - *Department of Chemistry, Faculty of Science University of Guilan, P., O. Box: 19141, Rasht, Iran*

Parya Mossayyebzadeh-Shalkoohi

## خلاصه مقاله:

In many industrial and environmental processes, modeling the thermodynamic properties of various electrolytes in water – organic solvent mixtures, is of particular interest. In this respect, the electromotive force (emf) method is a useful experimental technique for studying the thermodynamic properties of electrolyte solutions [1-3]. In this article, results from mean activity coefficient measurements using the potentiometric method are reported for NaBr in various N,N-dimethylformamide + water mixed solvent systems containing 0, 10, 20, and 30% mass fraction of N,N-dimethylformamide over ionic strength ranging from 0.0100 to 2.0000 mol.kg<sup>-1</sup>. Pitzer ion-interaction model was used to analyze the studied system. The obtained parameters were applied to calculate the thermodynamic properties

## کلمات کلیدی:

Activity Coefficient, Pitzer Model, Potentiometric Method, Thermodynamic Properties

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/817716>

