



Osmotic and Activity Coefficients of Aqueous Solutions of the Anesthetic Drugs Lidocaine-HCl and Procaine-HCl at 298.15 K

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SUMMARY. Osmotic and activity coefficients were measured for aqueous solutions of Lidocaine-HCl and Procaine-HCl using the isopiestic method at 298.15 K. The results were fitted to the Pitzer equation and the parameters were calculated. A good correlation with the Pitzer model was found. The osmotic coefficients thus obtained were analyzed by comparing them with the Debye-Hückel limiting law. The results are discussed in terms of ion-solvent and ion-ion interactions.

KEY WORDS: Lidocaine-HCl, Procaine-HCl, Activity coefficient, Isopiestic method, Local anesthetics.

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