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Bibliography

Books

- Robinson, R. A. and Stokes R. H., Electrolyte Solutiblesmeasurement and interpretation of conductance, chemical potential and diffusion in solutions of sirted by tes (1955) Butterworths, London. Second edition (1959). Revised edition (1965) Reprinted by Courier Dover Publications, New York (2002)
- 2. Stokes, R. H. and Mills RViscosity of Electrolytes and Related Properties. The International Encyclopedia of Physical Chemistry and Chemical Physical Physical Physical Chemistry and Chemical Physical Phys
- 3. Guggenheim, E. A. and Stokes R, Equilibrium Properties of Aqueous Solutions of Single Strong Electrolytes (1969), Pergamon Press, London.

Book Chapters

- 1. Stokes, R.H.: Mobilitiesof ions and uncharged molecules in relation to viscessityclassical viewpoint. In: Hamer, W.J. (ed.) The Structure of Electrolytic Solutions, pp. 298–307. Wiley, New York (1959)
- 2. Kelly, F.J., Stokes, R.H.: The transport of an electrolyte during the diffusion of a non-electrolyte. In: Pesce, B. (ed.) Electrolytes. Proceedings of an International Symposium Held in Trieste, June 1959, pp. 96–100. Pergamon Press, Oxford (1962)
- 3. Stokes, R.H., Marsh, K.N., Tomlins, R.P.: Dilution techniques for measuring the thermodynamic and dielectric properties of liquid mixtures. In: Fourth International Conference on Chemical Thermodynamics, vol. IX, pp. 120–127. Montpellier, France (1975)
- 4. Stokes, R.H. Thermodynamics of solutions. In: Pytkowicz, R.M. (ed.) Activity Coefficients in Electrolyte Solutions, vol. I, Chap. I. CRC Press, Boca Raton (1979); Republished in the second edition, Pitzer, K.S. (ed.). CRC Press, Boca Raton (1991)
- 5. Stokes, R.H.: Solubty of electrolytes. In: Encyclopaedic Dictionary of Physics, vol. 6, pp. 545–548. Pergamon Press, Oxford (1962)
- 6. Hildebrand, J.H., Stokes, R.H.: Solutions. In: Encyclopaedia Britannica, vol. 20, pp. 884–892 (1967)
- 7. Stokes, R.H.: Isothermal displacementorian eters. In: Marsh, K.N., O'Hare, P.A.G. (eds.) Solution Calorimetry, Experimental Thermodynamics, vol. IV. IUPAC Chemical Data Series, no. 39, pp. 131–

Papers

1. Robinson, R.A. and R.H. Stokes, A thermouty ic study of bivalent metal halides in

- degreesJournal of the American Chemical Society, 1948. 70(2): 874-
- 20. Stokes, R.H., A thermodynamic study of bivalent metal halides in aqueous solution .16. Complex ion formation in zinc halide solutions ansactions of the Faraday Society, 1948. 443): 137141.
- 21. Stokes, R.H., A thermodynamic study of bivalent metal halides in aqueous solution .17. Revision of data for all 2-and 12 electrolytes at 25 egrees, and discussion of results. Transactions of the Faraday Society, 19485 44295307.
- 22. Stokes, R.H. and R.A. Robinson, Ionic hydration and activity in electrolyte solutions. Journal of the American Chemical Society, 194857:018701878.
- 23. Robinson, R.A. and R.H. Stokes, Tables of osmotic and activity coefficients of electrolytes in aqueous solution 26-degrees. Transactions of the Faraday Society, 1949. 457): 612624.
- 24. Stokes, R.H. and R.A. Robinson, Standard solutions for humidity control degrees C. Industrial and Engineering Chemistry, 1949(9): 20132013.
- 25. Stokes, R.H., An improved diaphragmell for diffusion studies, and some tests of the method Journal of the American Chemical Society, 1950. 72(2): 776673-
- 26. Stokes, R.H., The diffusion coefficients of 8-umivalent electrolytes in aqueous solution at 25-degreesJournal of the Americal Society, 1950. (52): 22432247.
- 27. Dunlop, J. and R.H. Stokes, The diffusion coefficients of sodium and potassium iodides in aqueous solution at 25egreesJournal of the American Chemical Society, 1951. 73(11): 54565457.
- 28. Purser, E. and R.HStokes, Transference numbers in aqueous solutions of zinc sulfate. Journal of the American Chemical Society, 1951(12) 56505652.
- 29. Stokes, R.H., Integral diffusion coefficients of potassium chloride solutions for calibration of diaphragm cellslournal of the American Chemical Society, 1953(7): 35273528.
- 30. Stokes, R.H., One imensional diffusion with the diffusion coefficient a linear function of concentration. Transactions of the Faraday Society, 1952. 48(10): 8327-
- 31. Hall, J.R., B.F. Wishaw, ned R.H. Stokes, The diffusion coefficients of calcium chloride and ammonium chloride in concentrated aqueous solutions degrees Journal of the American Chemical Society, 1953. 75(7): 15/5660.
- 32. Hammond, B.R. and R.H. Stokes, Diffusion in binaryiblomixtures .1. Diffusion coefficients in the system ethanol + water atdegrees. Transactions of the Faraday Society, 1953. 4(98): 890895.
- 33. Stokes, 75.14.7 25 25 66 10 66 26 66 10 66 26 66 10 66 26 66 10 66 26 66 10 66 26 66 10 66 26 66 10 66 26 66 10 66 26 66 10 66 26 66 10 66 26 1

- concentrated electrolyte solutions at 25 grees Journal of the American Chemical Society, 1954. 7(8): 20652071.
- 43. Wishaw, B.F. and R.H. Stokes, tiles of aqueous ammonium sulphate solutions at 25-degrees. Transactions of the Faraday Society, 1954. 50(9): 9552-
- 44. Hammond, B.R. and R.H. Stokes, Diffusion in binary liquid mixtures .2. The diffusion of carbon tetrachloride in some organic solvents atdegrees. Transactions of the Faraday Society, 1955. 5(12): 16411649.
- 45. Stokes, R.H., An alternative computation of the transference numbers in zinc sulfate solutions. Journal of the American Chemical Society, 195(12). 32193219.
- 46. Bates, R.G., et al., Standard electrode potential of the silver, silver chloride electrode. Journal of Chemical Physics, 1956(22)5 361361.
- 47. Chambers, J.F., J.M. Stokes, and R.H. Stokes, Condu3 (f)6.2+ (-1 o)TJ /TT0 1 Tf 0.0h(na)10.900 (s)-u.005 Tcl2 1 -2.e an911, G7 (s)-2TT1 911Tsas, and

- 64. Robinson, R.A. and R.H. Stokes, Activity efficients in aqueous solutions of sucrose, mannitol and their mixtures at 25 degred surnal of Physical Chemistry, 1966 (11): 19541958.
- Robinson, R.A., R.H. Stokes, and J.M. Stokes, Potassium hexafluorophesphate associated electrolytelournal of Physical Chemistry, 1961. (33): 542546.
- 66. Stokes, R.H., Conductance of hydrochloric acid at 25 degreenal of Physical Chemistry, 1961. (65): 12421247.
- 67. Stokes, R.H.,

- Stokes, R.H., Thermodynamics of aqueous urea solutions. Australian Journal of Chemistry, 1967. 200): 20872100.
 Stokes, R.H., Calculation of enthalpy of formation of hydrogen bond in solutions of 89.
- 90.

- Chemistry, 1973. (22-3): 235238.
- 110. Stokes, R.H., et al., Studies of Hydrophobic Bonding in Aqueous Alcohols: Enthalpy Measurements and Model Calculations DISCUSSI@Nrnal of Solution Chemistry, 1973. 2(23): 138440.
- 111. Stokes, R.H. and R.A. Robinson, Solvation Equilibria in Very Concentrated Electrolyte Solutions Journal of Solution Chemistry, 1972(2-3): 173184.
- 112. Stokes, R.H., Osmotic and Activ® pefficients in Dilute Solutions of Ethanol in Cyclohexane from Freezir® oint Measurements ournal of Solution Chemistry, 1974. 3(8): 671681.
- 113. Stokes, R.H. and R. Tomlins, Thermodynamic functions of melting for cyclohexane. Journal of Chemical Thermodynamics, 1974. 6(4): -3879.
- 114. Stokes, R.H., Apparent molar volumes of aqueous ammonia, ammchioride, aniline and anilinium chloride at 25 degrees and volume changes on ionization. Australian