

Book review

Solute-Solvent Interactions, Vol 2, J. F. Coetzee and C. D. Ritchie (Editors),
M. Dekker Inc., New York and Basel, 1976, ix + 459, Swiss Fr. 125.

The second volume of this series maintains the very high standard of the first, and is a credit to its editors, who themselves contribute very good chapters.

The chapters are as follows : Enthalpies of transfer for solutes in polar solvents (C. V. Krishnan and H. L. Friedman, 103 pages, 146 references); Evaluation of ion-solvent interactions from transport properties (R. L. Kay, D. F. Evans, and M. Matesich, 149 pages, 86 references); Selective solvation of ions in mixed solvents (H. Schneider, 74 pages, 219 references); Solvent Effects on some simple organic reactions (equilibrium acidities; rates of proton transfers; electrophile-nucleophile combination reactions : C. D. Ritchie, 42 pages, 59 references); Use of alkali metal NMR in the study of solvation and complexation of alkali-metal ions (A. I. Popov, 60 pages, 62 references); Ligand substitution kinetics of labile metal complexes in non-aqueous solvents (J. F. Coetzee, 80 pages, 116 references). There are good author and subject indexes. The first three, more general chapters serve as an introduction to the other, more specialized chapters. The last chapter, on ligand substitution kinetics, will be of special interest to organometallic chemists, but the volume as a whole will be a valuable aid to those concerned with mechanistic studies of reactions in solutions.

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