

Study on the state of certain protonated amines in sodium dodecylsulfate solutions

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Abstract

The effect of sodium dodecylsulfate (SDS) on acid-base properties of ammonia, hydrazine, and o- and p-phenylenediamine (o- and p-Pn) was studied at 308 K with potentiometric titration. The DS⁻ anions were found to form strong associates p-PnH₂(DS)₂ with $\log K_{as} = 7.8 \pm 0.10$. Monocations of o- and p-Pn are associated with SDS micelles through substitution of sodium counterions. Conclusions are made on the conditions for pre-micellar association of dodecylsulfate with various cations. © 1996 MAK Haya/Interperiodica Publishing.
