

Time-resolved spectroscopy of 4 - hydroxy - 1 - naphthalenesulfonate in alcohol-water mixtures.

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Abstract

The initial proton transfer dynamics of 4-hydroxy-1-naphthalenesulfonate has been studied in alc.-water (7:3) mixts. at room temp. by using picosecond time-resolved emission spectroscopy. Consecutive processes of dissocn., recombination, re-dissocn. have been obsd. in methanol-water and ethanol-water mixts. However, no recombination has been found in the 1-propanol-water mixt. The need for a particular solvent structure for the proton hydration is discussed.