

Excited-State Proton Transfer from 4-Hydroxy-1-naphthalenesulfonate to Urea.
Htun, M. Than; Suwaiyan, A.; Baig, A.; Klein, Uwe K. A. Chemistry Department
and Laser Research Laboratory Research Institute, King Fahd University of
Petroleum and Minerals, Dhahran, Saudi Arabia.

Journal of Physical Chemistry A (1998), 102(43), 8230-8235.

Abstract

The excited-state proton transfer from 4-hydroxy-1-naphthalenesulfonate to urea has been studied in methanol at 25°C. The decay of the acidic form is single-exponential for all urea concns. The proton acceptor concn. has been found to increase nonlinearly with the concn. of urea. The nonlinear behavior is explained by a model proposing urea monomers and, in particular, urea dimers to be the proton acceptors in methanol.