

NEGATIVE ION PHOTOELECTRON SPECTROSCOPY OF SOLVENT-STABILIZED ANIONS

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Solvent-stabilized anions of organic molecules, such as naphthalene, pyrimidine, and pyridine, were investigated via negative ion photoelectron spectroscopy. In addition to determining the minimum number of solvent molecules needed to form a stable anion, we also determined that the excess charge was in each case located on the organic molecule and not on its solvent. By extrapolation, we determined the electron affinities of the bare organic molecules.