

## SPECTROSCOPIC AND COMPUTATIONAL CHARACTERIZATION OF HYDRATED PYRIMIDINE ANIONS

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Pyrimidine is known to possess a negative electron affinity. Anions created from such molecules, whose energies are higher than those of their neutral counterparts, are unstable with respect to autodetachment. The solvation of pyrimidine with just one water molecule results in a positive electron binding energy. The addition of water molecules stabilizes the excess charge and increase the binding energy. The most interesting feature is the orientation of the hydrated pyrimidine complex to help accommodate an excess electron.