

CHIRPED-PULSED FTMW SPECTRUM OF VALERIC ACID AND 5-AMINOVALERIC ACID. A STUDY OF AMINO ACID MIMICS IN THE GAS PHASE<sup>a</sup>

RYAN G. BIRD, VANESA VAQUERO, and DAVID W. PRATT, *Department of Chemistry, University of Pittsburgh, Pittsburgh, Pa 15213*; JUSTIN L. NEILL and BROOKS H. PATE, *Department of Chemistry, University of Virginia, Charlottesville, Va 22904*.

Microwave studies of the structural and dynamical properties of several organic acids and their water complexes have been described by a number of research groups. Here we continue this theme by the study of valeric acid and 5-aminovaleric acid, using chirped-pulsed Fourier transform microwave spectroscopy (CP-FTMW). The rotational spectrum from 6.5 to 18 GHz was collected using a compilation of 250 MHz chirped pulses and pieced together. Their structures and water complexes were determined and will be compared to other amino acids.

---

<sup>a</sup>Work supported by NSF (CHE-0618740 and -0911117).