

## MICROWAVE SPECTRUM OF ACETOHYDROXAMIC ACID: A GLYCINE ISOMER

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We here present the first microwave study of acetohydroxamic acid ( $\text{CH}_3\text{CONHOH}$ ), a glycine isomer, using a broad-band chirped pulse FTMW spectrometer equipped with a laser ablation vaporization system (LA-CP-FTMW)<sup>a</sup>. We have characterized two distinct structures (*Z*-amide and *E*-amide) of acetohydroxamic acid in the supersonic expansion. Accurate experimental values of the  $^{14}\text{N}$  nuclear quadrupole coupling constants together with the rotational constants and also the barrier to the internal rotation ( $V_3$ ) of the methyl group have been provided for both conformers. The precise spectroscopic information provided here could be relevant to guide radioastronomical searches of acetohydroxamic acid in the ISM.<sup>b</sup>

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<sup>a</sup>L. Kolesniková, I. León, E. R. Alonso, S. Mata, J. L. Alonso, *J. Phys. Chem. Lett.*, 10 (2019), 1325-1330.

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