

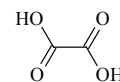
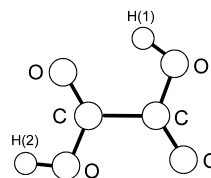
227
MW $\text{C}_2\text{H}_2\text{O}_4$ **Oxalic acid**

Ethanedioic acid

 C_s (*syn-Anti-anti*)

Atom	$ a_s $ [Å]	$ b_s $ [Å]
H(1)	0.831	1.722
H(2)	2.406	0.741

A polar conformer was detected. By comparing observed and *ab initio* predicted spectroscopic constants and deuteration isotopic coordinates, the species has been identified with *syn-Anti-anti* conformer (see figure), in which one of the carboxyl hydrogen atoms is involved in an intramolecular hydrogen bond with the carbonyl oxygen of the other carboxyl group.



Godfrey, P.D., Mirabella, M.J., Brown, R.D.: J. Phys. Chem. A **104** (2000) 258.

[II/25B\(3, 632\)](#)