

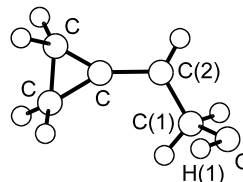
647
MW C_5H_8O

2-Cyclopropylideneethanol

 C_1

θ_0	deg ^{a)}
$C=C(2)-C(1)-O$ ^{b)}	122(1)
$C(2)-C(1)-O-H(1)$ ^{b)}	66(2)

One conformer, *skew* 1, was assigned. The hydrogen atom of the hydroxyl group forms a weak intramolecular hydrogen bond with the π electrons of the C=C double bond. The gas-phase IR spectrum in the OH stretching region revealed a broad and complex band. When the compound was isolated in an argon matrix at 5 K, the absorption split into three bands, which presumably belong to three conformers: two with an internal hydrogen bond and one without. From temperature variations in the Raman spectra in the liquid, *skew* 1 was estimated to be 2.5 ± 0.6 kJ mol⁻¹ lower in enthalpy than other conformers.



^{a)} Uncertainties were not estimated in the original paper.

^{b)} Dihedral angle, 0° at *syn* position.

Bräse, S., Klæboe, P., Marstokk, K.-M., de Meijere, A., Møllendal, H., Nielsen, C.J.: Acta Chem. Scand. **52** (1998) 1122.