

1648
ED

C₄H₆O

Cyclopropylmethanal
Cyclopropanecarbaldehyde

C_s (s-*cis*)
C_s (s-*trans*)

r_g	Å ^{a)}	θ ^{b)}	deg ^{a)}
C–H	1.115($\begin{smallmatrix} +37 \\ -21 \end{smallmatrix}$)	C–C–O	122.0(18)
C–C ^{c)}	1.507(2)	C–C–H ^{c)}	117.1(31)
C–O	1.216($\begin{smallmatrix} +2 \\ -18 \end{smallmatrix}$)	α ^{d)}	59.0(12)
C(1)...H(6)	2.245(20)		
C(2)...C(4)	2.563(13)		
C(1)...O(3)	2.397(18)		
C(4)...O(3) (<i>cis</i>)	2.925(9)		
C(4)...O(3) (<i>trans</i>)	3.641(7)		

The molecule exists as a mixture of the *s-cis* (55%) and *s-trans* (45%) conformers.

The parameters were derived from the radial distribution curve.

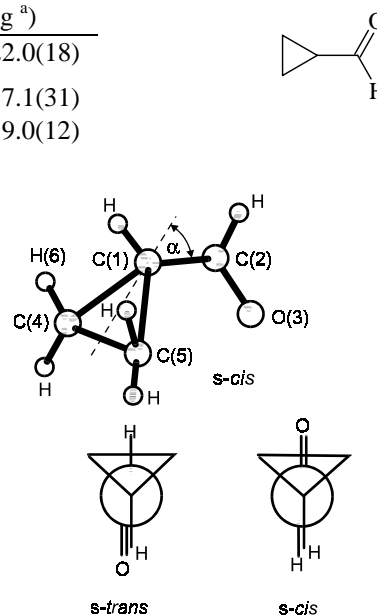
The measurements were made at room temperature.

^{a)} Estimated standard errors.

^{b)} Unidentified, possibly θ_g .

^{c)} Average value.

^{d)} Angle between the C(1)–C(2) bond and the plane of the ring.



Bartell, L.S., Guillory, J.P.: J. Chem. Phys. **43** (1965) 647.