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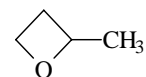
C₄H₈O

2-Methyloxetane

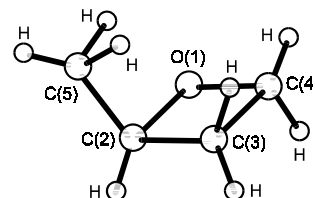
C₁

r_a	\AA^a
O–C	1.448(5)
C–C	1.534(4)
C–H	1.118(3)

θ_a	deg ^{a)}
C(2)–O(1)–C(4)	92 ^{b)}
H–C–H	109.5 ^{b)}
O(1)–C(2)–C(5)	110.7(7)
H–C(2)–O(1)	104.2(100)
β ^{c)}	2.5(55)
τ_1 ^{d)}	59.6(40)
τ_2 ^{e)}	–134.3(70)



One of the C(5)–H bonds was assumed to take a *syn* position with respect to the O(1)–C(2) bond.
The measurements were made at room temperature.



^{a)} Estimated total errors.

^{b)} Assumed.

^{c)} Dihedral angle between the planes C(2)O(1)C(4) and C(2)C(3)C(4).

^{d)} Torsional angle C(4)–O(1)–C(2)–C(5), $\tau_1 = 0^\circ$ for the *anti* position.

^{e)} Torsional angle H–C(2)–O(1)–C(4), $\tau_2 = 0^\circ$ for the *anti* position.

Schultz, G., Bartók, M.: Z. Naturforsch. **34a** (1979) 1130.