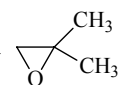


562  
MW**C<sub>4</sub>H<sub>8</sub>O****2,2-Dimethyloxirane****C<sub>s</sub>** (see comment)

$r_0$	Å	$\theta_0$	deg
C(2)–C(3)	1.474(10)	C(3)–C(2)–C(1)	119.65(40)
C(3)–O	1.438(1)	O–C(3)–C(2)	59.47(44)
C(1)–C(2)	1.512(5)	C(2)–C(3)–H	119.20 <sup>a</sup> )
C(3)–H	1.083 <sup>a</sup> )	C(2)–C(1)–H	109.40 <sup>a</sup> )
C(1)–H	1.09 <sup>a</sup> )	C(1)–C(2)–C(1')	116.41(63) <sup>b</sup> )
C(2)–O	1.445(10) <sup>b</sup> )	O–C(2)–C(1)	114.20(48) <sup>b</sup> )
		O–C(2)–C(3)	59.03(34) <sup>b</sup> )
		C(2)–O–C(3)	61.50(45) <sup>b</sup> )
		O–C(3)–C(2)–C(1)	102.03(77)
		O–C(2)–C(3)–H	103.20 <sup>a</sup> )
		C(3)–C(2)–C(1)–H	0.00 <sup>a</sup> )
		H'–C(1')–C(2)–C(1)–H	120.0 <sup>c</sup> )



$r_s$	Å	$\theta_s$	deg
C(2)–C(3)	1.444(6)	C(3)–C(2)–C(1)	120.81(28)
C(3)–O	1.437(2)	O–C(3)–C(2)	59.03(37)
C(1)–C(2)	1.522(3)	C(1)–C(2)–C(1')	114.42(33)
C(2)–O	1.419(7)	O–C(2)–C(1)	114.00(39)
		O–C(2)–C(3)	60.26(21)
		C(2)–O–C(3)	60.70(35)
		O–C(3)–C(2)–C(1)	101.82(62)

$r_{\Delta 0}^d)$	Å	$\theta_{\Delta 0}^d)$	deg
C(2)–C(3)	1.478(10)	C(3)–C(2)–C(1)	119.53(40)
C(3)–O	1.445(4)	O–C(3)–C(2)	59.11(50)
C(1)–C(2)	1.518(5)	C(2)–C(3)–H	119.20 <sup>a</sup> )
C(3)–H	1.083 <sup>a</sup> )	C(2)–C(1)–H	109.40 <sup>a</sup> )
C(1)–H	1.09 <sup>a</sup> )	C(1)–C(2)–C(1')	116.21(63) <sup>b</sup> )
C(2)–O	1.445(11) <sup>b</sup> )	O–C(2)–C(1)	115.48(52) <sup>b</sup> )
		O–C(2)–C(3)	59.92(40) <sup>b</sup> )
		C(2)–O–C(3)	61.41(44) <sup>b</sup> )
		O–C(3)–C(2)–C(1)	102.64(85)
		O–C(2)–C(3)–H	103.20 <sup>a</sup> )
		C(3)–C(2)–C(1)–H	0.00 <sup>a</sup> )
		H'–C(1')–C(2)–C(1)–H	120.0 <sup>c</sup> )

Atom	$a_s$ [Å]	$b_s$ [Å]	$c_s$ [Å]
C(2)	–0.1591	0.0	0.0799
C(3)	1.1544	0.0	0.6790
O	0.9929	0.0	–0.7494
C(1,1')	–0.9796	±1.2797	0.00

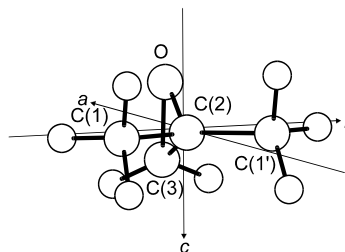
G<sub>18</sub> symmetry group applies when the internal rotation of two CH<sub>3</sub> groups is taken into account.

<sup>a</sup>) Assumed.

<sup>b</sup>) Dependent parameter.

<sup>c</sup>) C<sub>3v</sub> symmetry of the methyl group is assumed.

<sup>d</sup>) Use is made of only the differences in rotational constants between the normal and isotopic species.



Hartwig, H., Dreizler, H.: J. Mol. Struct. **406** (1997) 1.