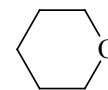


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MW**C₅H₁₀O****Tetrahydropyran**
Tetrahydro-2*H*-pyran
Oxane**C_s** (chair form)

$r_0, r_s^a)$	Å	$\theta_0, \theta_s^a)$	deg
O–C(2)	1.413 ^{b)}	C(6)–O–C(2)	114.8 ^{b)}
C(2)–C(3)	1.516(2)	O–C(2)–C(3)	114.66 ^{b)}
C(3)–C(4)	1.530(2)	C(2)–C(3)–C(4)	110.17(20)
C(2)–H(ax)	1.101 ^{b)}	C(3)–C(4)–C(5)	109.73(20)
C(2)–H(eq)	1.093 ^{b)}	C(3)–C(2)–H(ax)	108.83 ^{b)}
C(3)–H(ax)	1.101 ^{b)}	C(3)–C(2)–H(eq)	110.55 ^{b)}
C(3)–H(eq)	1.093 ^{b)}	C(2)–C(3)–H(ax)	108.83 ^{b)}
C(4)–H(ax)	1.101 ^{b)}	C(2)–C(3)–H(eq)	110.55 ^{b)}
C(4)–H(eq)	1.093 ^{b)}	H(ax)–C(2)–H(eq)	106.65 ^{b)}
		H(ax)–C(3)–H(eq)	106.65 ^{b)}
		H(ax)–C(4)–H(eq)	106.65 ^{b)}
		$\varphi_1^c)$	132.31 ^{b)}
		$\varphi_2^d)$	132.31(20)

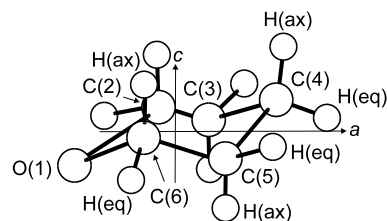
Atom	$ a_s $ [Å]	$ b_s $ [Å]	$ c_s $ [Å]
C(2)	0.7232	1.1734	0.2262
C(3)	0.7286	1.2507	0.2227
C(4)	1.4868	0.0	0.2232

^{a)} C–C bond lengths and C–C–C bond angles are r_s parameters, while others are r_0 . Uncertainties were not estimated in the original paper.

^{b)} Assumed.

^{c)} Dihedral angle between the C(2)OC(6) and C(2)C(3)C(5)C(6) planes.

^{d)} Dihedral angle between the C(3)C(4)C(5) and C(2)C(3)C(5)C(6) planes.



Spoerel, U., Stahl, W., Caminati, W., Favero, P.G.: Chem. Eur. J. **4** (1998) 1974.

[II/25D \(3, 2044\)](#)