

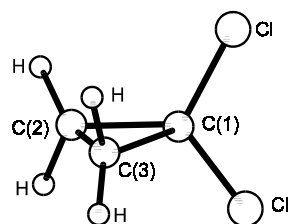
1144
ED, MW

C₃H₄Cl₂

1,1-Dichlorocyclopropane

C_{2v}

r_{av}	Å ^{a)}	θ_{av}	deg ^{a)}
C–H	1.092(8)	Cl–C–Cl	112.6(2)
C–C (average)	1.508(3)	H–C–H	118.7(20)
$\Delta(\text{C–C})$ ^{b)}	0.041(11)	δ ^{c)}	1.6(35)
C–Cl	1.756(2)		



The measurements were made at room temperature.

^{a)} Twice the estimated standard errors.

^{b)} $\Delta(\text{C–C}) = [\text{C}(2)\text{--C}(3)] - [\text{C}(1)\text{--C}(2)]$.

^{c)} The angle defined by an HCH plane and a plane bisecting the ring angle at the carbon atom. Positive values have the hydrogen atoms on the chlorine side of the bisecting plane.

Hedberg, L., Hedberg, K., Boggs, J.E.: J. Chem. Phys. **77** (1982) 2996.

MW

r_0	Å ^{a)}	θ_0	deg ^{a)}
C–H	1.085(15)	Cl–C–Cl	114.6(5)
C(2)–C(3)	1.534(10)	H–C–H	117.6(15)
C(1)–C(2,3)	1.532(10)	C–C–H	153.6(15)
C–Cl	1.734(5)		

Flygare, W.H., Narath, A., Gwinn, W.D.: J. Chem. Phys. **36** (1962) 200.