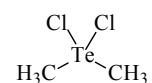
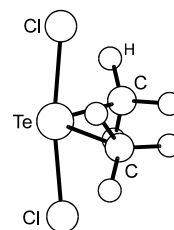


**296**      **C<sub>2</sub>H<sub>6</sub>Cl<sub>2</sub>Te**ED, *ab initio*  
calculations**Dimethyltellurium dichloride**Dichlorodimethyltellurium  
Dichlorodimethyl- $\lambda^4$ -tellane**C<sub>2</sub> assumed**

$r_a$	$\text{\AA}^a$	$\theta_a$	$\text{deg}^a$
Te–C	2.132(5)	Te–C–H	107(2)
Te–Cl	2.504(3)	Cl–Te–Cl	170(2)
C–H	1.104(8)	C–Te–C	97(5)
		Cl–Te–C	86.6(5)
		$\tau^b$	53(10)

The C<sub>2</sub>TeCl<sub>2</sub> frame was assumed to have effective C<sub>2v</sub> symmetry. It was assumed that the TeCH<sub>3</sub> groups have local C<sub>3v</sub> symmetry and the whole molecule has C<sub>2</sub> symmetry as indicated by MP2 calculations. The nozzle temperature was 87(3) °C.



<sup>a</sup>) Twice the estimated standard errors including a systematic error.

<sup>b</sup>) C–Te–C–H torsional angle from the *anti* position.

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J. Mol. Struct. **413-414** (1997) 301.