

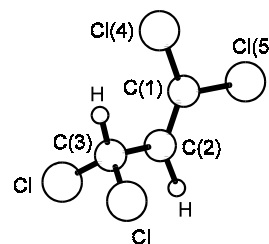
1056  
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**C<sub>3</sub>H<sub>2</sub>Cl<sub>4</sub>**

**1,1,3,3-Tetrachloro-1-propene**

**C<sub>s</sub>**  
**Cl<sub>2</sub>C=CH-CHCl<sub>2</sub>**

$r_g$	Å <sup>a)</sup>	$\theta_\alpha$	deg <sup>a)</sup>
C-H	1.075(40)	C-C=C	125.0(18)
C=C	1.336(11)	C(2)=C(1)-Cl(4)	123.1(13)
C-C	1.483(14)	C(2)=C(1)-Cl(5)	120.2(17)
C-Cl (mean)	1.752(3)	C(3)-C(2)-H	111 <sup>c)</sup>
$\Delta(\text{C-Cl})$ <sup>b)</sup>	0.054(8)	C(2)-C(3)-Cl	111.8(12)
C(1)-Cl <sup>c)</sup>	1.725(5)	Cl-C(3)-Cl	108.0(17)
C(3)-Cl <sup>c)</sup>	1.779(5)	C(2)-C(3)-H	109 <sup>c)</sup>
		$\phi$ <sup>d)</sup>	0 <sup>c)</sup>



Only one conformer was observed in which the C(3)-H bond is eclipsed with respect to the C=C bond.  
The nozzle was at 329 K.

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

<sup>b)</sup>  $\Delta(\text{C-Cl}) = (\text{C}(3)\text{-Cl}) - (\text{C}(1)\text{-Cl})$ .

<sup>c)</sup> Assumed.

<sup>d)</sup>  $\phi$  is the H-C(3)-C(2)=C(1) torsion angle.

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

Kaleem, H., Lund, A., Schei, S.H., de Meijere, A., Hagen, K., Stølevik, R.: J. Phys. Chem. **96** (1992) 8357.