

1882  
MW

$C_4N_4$

**Cyanogen dimer**  
(weakly bound complex)

$C_{2v}$  (T-shaped)  
(effective symmetry class)  
 $N\equiv C-C\equiv N \cdot N\equiv C-C\equiv N$

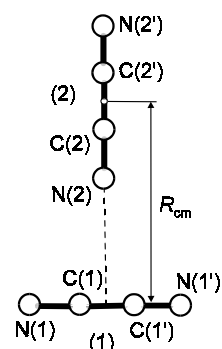
$r_0$	$\text{\AA}^a$	$\theta_0$	$\text{deg}^a$
N(2)...C(1)	3.206(3)	$\theta_1^b$	$90^\circ$
$R_{cm}$	4.987(3)	$\theta_2^b$	13.9(15)

Cyanogen (1) is the one at the bottom of the figure, and cyanogen (2) is the one bonded through N.

<sup>a)</sup> Uncertainties were about three times those of the original data.

<sup>b)</sup>  $\theta_1$ ,  $\theta_2$ : angles between the  $a$  axis and the molecular axes of cyanogens (1) and (2), respectively.

<sup>c)</sup> Assumed.



Suni, I.I., Lee, S.H., Klemperer, W.: J. Phys. Chem. **95** (1991) 2859.