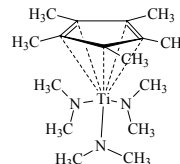


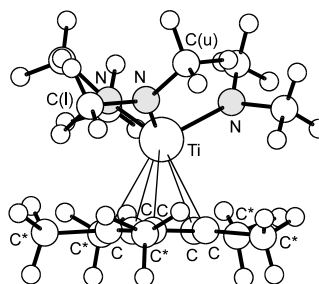
932  
ED $C_{16}H_{33}N_3Ti$ **Tris(*N*-methylmethanaminato)[(1,2,3,4,5- $\eta$ )-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]titanium** $C_1$ Tris(dimethylamido)[(1,2,3,4,5- $\eta$ )-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]titanium

$r_a$	$\text{\AA}^a$	$\theta_a$	deg $^a$
Ti–C	2.453(9)	Z...C–C* $^b$ ) $^c$ )	176.6(12)
C–C	1.417(6)	C–C*–H	112.5 $^d$ )
C–C*	1.521(10)	N–Ti–N	100.2(12)
C*–H	1.108(3)	Ti–N–C(u)	124.0(9) $^c$ )
Ti...Z $^c$ )	2.137(11)	Ti–N–C(l)	122.5(9) $^c$ )
Ti–N	1.954(5)	C–N–C	114(2)
N–C	1.468(5)	N–C–H	111.0 $^c$ )
C–H	1.108(3)	Z...Ti–N $^c$ )	117.7(10)
		Z...Ti–N–C(u) $^c$ ) $^f$ )	117.5(14)
		Z...Ti–N–C(l) $^c$ ) $^f$ )	–62.5(14)
		C...Z...Ti–N $^c$ ) $^f$ )	6.0 $^d$ )



Local  $C_{5v}$  symmetry was assumed for the  $Ti[C_5(CH_3)_5]$  fragment and  $C_3$  for  $Ti[N(CH_3)_2]_3$ . The conformations around the N atoms were assumed to be planar. The  $N(CH_3)_2$  groups were assumed to have  $C_{2v}$  symmetry. The nozzle temperature was 132(5) °C.

- $^a$ ) Three times the estimated standard errors including a systematic error.  
 $^b$ ) The C\* atom is bent away from the Ti atom.  
 $^c$ ) Z is the ring centroid.  
 $^d$ ) Assumed.  
 $^e$ ) Differences between the N–C–H angle and the Ti–N–C(u) and Ti–N–C(l) angles were assumed at the values for  $C_5H_5Ti[N(CH_3)_2]_3$  molecule from B3LYP/LanDZ2 calculations.  
 $^f$ ) Torsional angle, zero degree for the *syn* position.



Haaland, A., Volden, H.V., Østby, K.-A., Mena, M., Yélamos, C., Palacios, F.: J. Mol. Struct. **567-568** (2001) 295.