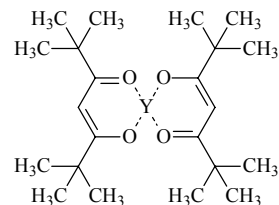


947
ED $C_{22}H_{38}O_4Y$

Bis(2,2,6,6-tetramethyl-3,5-heptanedionato-*O,O'*)yttrium D_{2h}
 Yttrium bis(2,2,6,6-tetramethyl-3,5-heptanedionate)
 Bis(dipivaloylmethanato)yttrium

r_g	\AA^a
Y–O	2.230(8)
O–C	1.321(14)
C(3)–C(2)	1.540(8)
C(3)–C(4)	1.429(25)
C(4)–H	1.135 ^c
C(m)–H	1.131(11)
C(2)–C(m)	1.556(7)

θ^b	deg ^a
O–Y–O	78.4(4)
O–C(3)–C(2)	117.7(15)
C(3)–C(4)–C(5)	124.4(15)



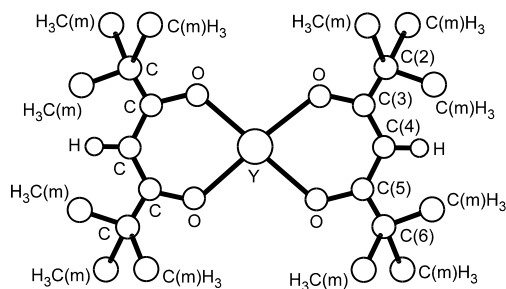
The vapor contained the $Y(O_2C_{11}H_{19})_2$ (77 mol%) and $Y(O_2C_{11}H_{19})_3$ (23 mol%) molecules. Parameters for $Y(O_2C_{11}H_{19})_3$ molecule were assumed in the structural analysis at the values estimated from literature data. Local C_{3v} symmetry was assumed for the $C(CH_3)_3$ groups. It was found that the ligand rings are coplanar and one C–C(m) bond of each *t*-butyl group is eclipsed with respect to the C–C bond in the ring.

The nozzle was at 760...763(5) K.

^a) 2.5 times the estimated standard errors including a systematic error.

^b) Unidentified, possibly θ_α .

^c) Assumed.



Belova, N.V., Giricheva, N.I., Girichev, G.V., Shlykov, S.A., Kharlanova, E.V., Kuzmina, N.P., Kaul', A.R.: Zh. Strukt. Khim. **38** No.3 (1997) 480; J. Struct. Chem. (Engl. Transl.) **38** (1997) 395.