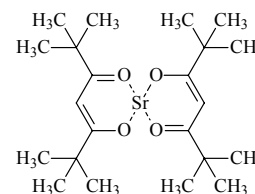


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ED $C_{22}H_{38}O_4Sr$ **Bis(2,2,6,6-tetramethyl-3,5-heptanedionato- $\kappa O, \kappa O'$)strontium**
Bis(dipivaloylmethanato- $\kappa O, \kappa O'$)strontium D_{2d} (without methyl groups)

r_g	$\text{\AA}^a)$	θ_α	$\text{deg}^a)$
Sr–O	2.399(6)	O–Sr–O	71.0(10)
C–C(r)	1.427(4)	O–C–C(t)	116.0(19)
C–C(t)	1.542(3)	C–C(r)–C	122.1(15)
C(t)–C(m)	1.562(10)	C–C(t)–C(m)	109.1(18)
C(m)–H	1.128(6)	C(t)–C(m)–H	110.4(17)
C(r)–H	1.115 ^{b)}	$\tau_1^c)$	0.0(40)
O–C	1.287(6)	$\varphi^d)$	0.0(50)
		$\tau_2^e)$	24.1(33)



It was assumed that only one molecular form was present in the overheated vapor. The nozzle temperature was 437(5) °C.

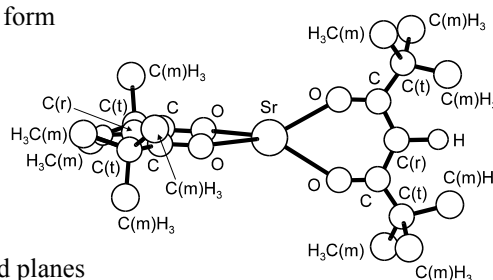
^{a)} 2.5 times the estimated standard errors including a systematic error.

^{b)} Assumed.

^{c)} Angle of the ligand rotation about the Sr...C(r) axis; $\tau_1 = 0^\circ$ when the ligand planes are perpendicular to each other (D_{2d} symmetry).

^{d)} Angle of ligand folding along the O...O line, *i.e.*, angle between the OSrO and OCC(r)CO planes.

^{e)} C(m)–C(t)–C–O torsional angle; $\tau_2 = 0^\circ$ for the *syn* position.



Giricheva, N.I., Girichev, G.V., Belova, N.V., Isakova, N.A., Kuzmina, N.P.: Zh. Strukt. Khim. **40** No.6 (1999) 1067; J. Struct. Chem. (Engl. Transl.) **40** (1999) 862.