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[4-Chloro-*N'*-(3-methoxy-2-oxidobenzylidene)benzohydrazidato]dimethyltin(IV)

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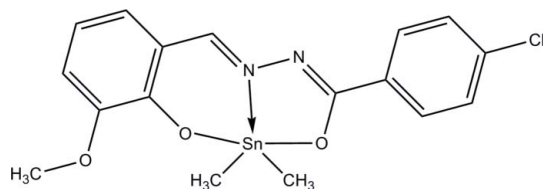
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Key indicators: single-crystal X-ray study;  $T = 298$  K; mean  $\sigma(\text{C}-\text{C}) = 0.006$  Å;  $R$  factor = 0.029;  $wR$  factor = 0.080; data-to-parameter ratio = 14.1.

In the title molecule,  $[\text{Sn}(\text{CH}_3)_2(\text{C}_{15}\text{H}_{11}\text{ClN}_2\text{O}_3)]$ , the two benzene rings form a dihedral angle of  $6.37(2)^\circ$ . The Sn atom is coordinated by one N [ $\text{Sn}-\text{N} = 2.187(3)$  Å], two O [ $\text{Sn}-\text{O} = 2.123(3)$  and  $2.174(3)$  Å] and two C [ $\text{Sn}-\text{C} = 2.096(4)$  and  $2.101(4)$  Å] atoms in a distorted trigonal-bipyramidal geometry. The crystal packing exhibits weak intermolecular  $\text{C}-\text{H}\cdots\text{O}$  hydrogen bonds, which link the molecules into centrosymmetric dimers with an  $\text{Sn}\cdots\text{Sn}$  separation of  $4.330(6)$  Å, and  $\pi-\pi$  interactions [centroid-centroid distance of  $3.690(5)$  Å between the benzene rings of neighbouring molecules].

## Related literature

For a related crystal structure, see Hong *et al.* (2006).

## Experimental

## Crystal data

$[\text{Sn}(\text{CH}_3)_2(\text{C}_{15}\text{H}_{11}\text{ClN}_2\text{O}_3)]$   
 $M_r = 451.47$   
 Monoclinic,  $C2/c$   
 $a = 30.015(3)$  Å  
 $b = 9.5039(10)$  Å  
 $c = 13.5615(18)$  Å  
 $\beta = 113.189(2)^\circ$

$V = 3556.0(7)$  Å<sup>3</sup>  
 $Z = 8$   
 Mo  $K\alpha$  radiation  
 $\mu = 1.60$  mm<sup>-1</sup>  
 $T = 298(2)$  K  
 $0.50 \times 0.20 \times 0.08$  mm

## Data collection

Siemens SMART CCD area-detector diffractometer  
 Absorption correction: multi-scan (*SADABS*; Sheldrick, 1996)  
 $T_{\min} = 0.501$ ,  $T_{\max} = 0.882$

8568 measured reflections  
 3113 independent reflections  
 2392 reflections with  $I > 2\sigma(I)$   
 $R_{\text{int}} = 0.061$

## Refinement

$R[F^2 > 2\sigma(F^2)] = 0.029$   
 $wR(F^2) = 0.080$   
 $S = 1.00$   
 3113 reflections

220 parameters  
 H-atom parameters constrained  
 $\Delta\rho_{\text{max}} = 0.66$  e Å<sup>-3</sup>  
 $\Delta\rho_{\text{min}} = -0.57$  e Å<sup>-3</sup>

Table 1

Hydrogen-bond geometry (Å, °).

$D-H\cdots A$	$D-H$	$H\cdots A$	$D\cdots A$	$D-H\cdots A$
$\text{C15}-\text{H15B}\cdots\text{O1}^i$	0.96	2.53	3.290 (6)	136

Symmetry code: (i)  $-x, -y + 2, -z$ .

Data collection: *SMART* (Siemens, 1996); cell refinement: *SAINT* (Siemens, 1996); data reduction: *SAINT*; program(s) used to solve structure: *SHELXS97* (Sheldrick, 2008); program(s) used to refine structure: *SHELXL97* (Sheldrick, 2008); molecular graphics: *SHELXTL* (Sheldrick, 2008); software used to prepare material for publication: *SHELXTL*.

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Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: CV2482).

## References

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## supporting information

*Acta Cryst.* (2009). E65, m36 [doi:10.1107/S1600536808040786]

## [4-Chloro-*N'*-(3-methoxy-2-oxidobenzylidene)benzohydrazidato]dimethyltin(IV)

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### S1. Comment

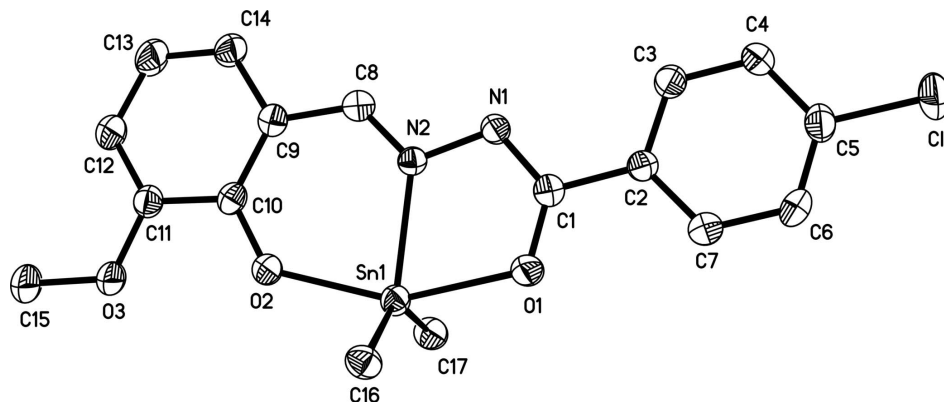
The molecular structure of the title compound, (I), is shown in Fig. 1. The Sn atom has distorted trigonal-bipyramidal coordination geometry, with atoms O1 and O2 in axial positions [ $\text{O1—Sn1—O2} = 153.92(11)^\circ$ ] and the atoms C16, C17 and N2 in equatorial positions. The sum of the equatorial angles  $\text{C16—Sn1—C17}$ ,  $\text{C16—Sn1—N2}$  and  $\text{C17—Sn1—N2}$  is  $359.4(1)^\circ$ , indicating approximate coplanarity for these atoms. The Sn1—N2 bond length is  $2.187(3) \text{ \AA}$  close to the sum of the non-polar covalent radii  $2.15 \text{ \AA}$ , indicating a strong Sn—N interaction. The Sn-O coordinating bond lengths are close to those in the reported compound  $[\text{Sn}(\text{C}_6\text{H}_5)_2(\text{C}_{14}\text{H}_{10}\text{N}_2\text{O}_3)].\text{C}_2\text{H}_6\text{O}$  (Hong *et al.*, 2006). The crystal packing exhibits weak intermolecular C—H $\cdots$ O hydrogen bonds (Table 2), which link the molecules into centrosymmetric dimers with Sn $\cdots$ Sn separation of  $4.330(6) \text{ \AA}$ , and  $\pi$ – $\pi$  interactions proved by short distance of  $3.690(5)$  between the centroids of benzene rings from the neighbouring molecules (Table 1).

### S2. Experimental

The reaction was carried out under nitrogen atmosphere. *o*-vanillin 4-chlorobenzhydrazone (1 mmol) and sodium ethoxide (1.2 mmol) were added to the solution of benzene (30 ml) in a Schlenk flask and stirred for 0.5 h. Dimethyltin dichloride (1 mmol) was then added to the reactor and the reaction mixture was stirred for 4 h at 313 K. The resulting clear solution was evaporated under vacuum. The product was crystallized from a mixture of dichloromethane/methanol (1:1). Analysis calculated (75%) for  $\text{C}_{17}\text{H}_{17}\text{ClN}_2\text{O}_3\text{Sn}$  ( $M_r = 451.47$ ): C, 45.22; H, 3.80; N, 6.20, found: C, 45.09; H, 3.76; N, 6.35.

### S3. Refinement

All H atoms attached to C atoms were fixed geometrically and treated as riding with, with aromatic C—H distances of  $0.93 \text{ \AA}$ , methyl C—H distances of  $0.96 \text{ \AA}$ . The  $U_{\text{iso}}(\text{H})$  values were set at  $1.5U_{\text{iso}}(\text{C})$  for the methyl H atoms, and at  $1.2U_{\text{iso}}(\text{C})$  for the other H atoms.



**Figure 1**

The molecular structure of (I), showing 30% probability displacement ellipsoids and the atom-numbering scheme. H atoms have been omitted for clarity.

**[4-Chloro-*N'*-(3-methoxy-2-oxidobenzylidene)benzohydrazidato]dimethyltin(IV)**

*Crystal data*

[Sn(CH<sub>3</sub>)<sub>2</sub>(C<sub>15</sub>H<sub>11</sub>ClN<sub>2</sub>O<sub>3</sub>)]

*M<sub>r</sub>* = 451.47

Monoclinic, *C2/c*

*a* = 30.015 (3) Å

*b* = 9.5039 (10) Å

*c* = 13.5615 (18) Å

$\beta$  = 113.189 (2)°

*V* = 3556.0 (7) Å<sup>3</sup>

*Z* = 8

*F*(000) = 1792

*D<sub>x</sub>* = 1.687 Mg m<sup>-3</sup>

Mo *K*α radiation,  $\lambda$  = 0.71073 Å

Cell parameters from 4052 reflections

$\theta$  = 2.3–28.1°

$\mu$  = 1.60 mm<sup>-1</sup>

*T* = 298 K

Block, orange

0.50 × 0.20 × 0.08 mm

*Data collection*

Siemens SMART CCD area-detector

diffractometer

Radiation source: fine-focus sealed tube

Graphite monochromator

$\varphi$  and  $\omega$  scans

Absorption correction: multi-scan

(*SADABS*; Sheldrick, 1996)

*T<sub>min</sub>* = 0.501, *T<sub>max</sub>* = 0.882

8568 measured reflections

3113 independent reflections

2392 reflections with *I* > 2σ(*I*)

*R<sub>int</sub>* = 0.061

$\theta_{\max}$  = 25.0°,  $\theta_{\min}$  = 2.3°

*h* = -35→35

*k* = -10→11

*l* = -8→16

*Refinement*

Refinement on *F*<sup>2</sup>

Least-squares matrix: full

*R*[*F*<sup>2</sup> > 2σ(*F*<sup>2</sup>)] = 0.029

*wR*(*F*<sup>2</sup>) = 0.080

*S* = 1.00

3113 reflections

220 parameters

0 restraints

Primary atom site location: structure-invariant

direct methods

Secondary atom site location: difference Fourier map

Hydrogen site location: inferred from neighbouring sites

H-atom parameters constrained

*w* = 1/[σ<sup>2</sup>(*F<sub>o</sub>*<sup>2</sup>) + (0.0351*P*)<sup>2</sup> + 0.1164*P*]

where *P* = (*F<sub>o</sub>*<sup>2</sup> + 2*F<sub>c</sub>*<sup>2</sup>)/3

(Δ/σ)<sub>max</sub> = 0.001

Δρ<sub>max</sub> = 0.66 e Å<sup>-3</sup>

Δρ<sub>min</sub> = -0.57 e Å<sup>-3</sup>

*Fractional atomic coordinates and isotropic or equivalent isotropic displacement parameters ( $\text{\AA}^2$ )*

	<i>x</i>	<i>y</i>	<i>z</i>	$U_{\text{iso}}^*/U_{\text{eq}}$
Sn1	0.032667 (8)	0.79772 (3)	0.059696 (18)	0.03884 (12)
Cl1	0.23989 (4)	0.12286 (15)	0.38025 (11)	0.0824 (4)
N1	0.03655 (10)	0.5011 (3)	0.1544 (2)	0.0386 (7)
N2	0.00348 (9)	0.6097 (3)	0.1058 (2)	0.0343 (7)
O1	0.08954 (9)	0.6394 (3)	0.1128 (2)	0.0516 (7)
O2	-0.04042 (8)	0.8667 (3)	0.0035 (2)	0.0481 (7)
O3	-0.11949 (8)	1.0208 (3)	-0.0695 (2)	0.0593 (8)
C1	0.07925 (12)	0.5289 (4)	0.1536 (3)	0.0375 (9)
C2	0.11826 (12)	0.4249 (4)	0.2063 (3)	0.0373 (9)
C3	0.11002 (14)	0.3030 (4)	0.2523 (3)	0.0452 (10)
H3	0.0788	0.2837	0.2472	0.054*
C4	0.14663 (14)	0.2095 (4)	0.3054 (3)	0.0484 (10)
H4	0.1405	0.1282	0.3361	0.058*
C5	0.19244 (14)	0.2392 (5)	0.3119 (3)	0.0515 (11)
C6	0.20167 (14)	0.3569 (5)	0.2656 (4)	0.0706 (14)
H6	0.2328	0.3747	0.2696	0.085*
C7	0.16426 (14)	0.4496 (5)	0.2123 (4)	0.0603 (12)
H7	0.1704	0.5297	0.1803	0.072*
C8	-0.03937 (12)	0.5902 (4)	0.1040 (3)	0.0394 (9)
H8	-0.0445	0.5060	0.1330	0.047*
C9	-0.07999 (13)	0.6841 (4)	0.0622 (3)	0.0392 (9)
C10	-0.07884 (13)	0.8150 (4)	0.0152 (3)	0.0396 (9)
C11	-0.12244 (12)	0.8960 (4)	-0.0225 (3)	0.0446 (10)
C12	-0.16337 (14)	0.8486 (5)	-0.0114 (3)	0.0570 (12)
H12	-0.1911	0.9040	-0.0351	0.068*
C13	-0.16372 (15)	0.7186 (5)	0.0348 (4)	0.0655 (14)
H13	-0.1917	0.6872	0.0417	0.079*
C14	-0.12297 (13)	0.6366 (5)	0.0703 (3)	0.0529 (11)
H14	-0.1236	0.5488	0.1001	0.063*
C15	-0.16273 (14)	1.1007 (5)	-0.1172 (4)	0.0785 (16)
H15A	-0.1874	1.0434	-0.1683	0.118*
H15B	-0.1566	1.1810	-0.1529	0.118*
H15C	-0.1733	1.1315	-0.0626	0.118*
C16	0.03486 (14)	0.8041 (4)	-0.0928 (3)	0.0450 (10)
H16A	0.0310	0.8996	-0.1180	0.068*
H16B	0.0091	0.7475	-0.1416	0.068*
H16C	0.0654	0.7683	-0.0887	0.068*
C17	0.05918 (14)	0.9110 (4)	0.2044 (3)	0.0508 (11)
H17A	0.0896	0.8717	0.2515	0.076*
H17B	0.0363	0.9053	0.2378	0.076*
H17C	0.0637	1.0077	0.1901	0.076*

*Atomic displacement parameters (Å<sup>2</sup>)*

	$U^{11}$	$U^{22}$	$U^{33}$	$U^{12}$	$U^{13}$	$U^{23}$
Sn1	0.03741 (16)	0.0408 (2)	0.04022 (17)	0.00259 (12)	0.01728 (12)	0.00166 (12)
C11	0.0532 (6)	0.0705 (9)	0.1054 (10)	0.0202 (6)	0.0120 (7)	0.0138 (8)
N1	0.0381 (16)	0.0376 (19)	0.0420 (17)	0.0032 (14)	0.0179 (13)	0.0047 (15)
N2	0.0349 (15)	0.0350 (18)	0.0347 (15)	-0.0004 (14)	0.0156 (13)	-0.0008 (14)
O1	0.0453 (15)	0.0475 (18)	0.0701 (18)	0.0051 (13)	0.0315 (14)	0.0148 (16)
O2	0.0381 (13)	0.0485 (18)	0.0603 (16)	0.0043 (12)	0.0222 (13)	0.0120 (14)
O3	0.0347 (14)	0.0504 (19)	0.086 (2)	0.0068 (13)	0.0167 (14)	0.0133 (17)
C1	0.041 (2)	0.040 (2)	0.0346 (19)	0.0022 (17)	0.0176 (16)	-0.0034 (17)
C2	0.0383 (19)	0.036 (2)	0.040 (2)	-0.0003 (16)	0.0178 (16)	-0.0031 (17)
C3	0.042 (2)	0.045 (3)	0.048 (2)	-0.0001 (19)	0.0167 (18)	-0.002 (2)
C4	0.048 (2)	0.041 (3)	0.054 (2)	0.0014 (19)	0.0167 (19)	0.008 (2)
C5	0.043 (2)	0.048 (3)	0.055 (2)	0.008 (2)	0.0104 (19)	-0.002 (2)
C6	0.033 (2)	0.073 (3)	0.101 (4)	0.002 (2)	0.022 (2)	0.019 (3)
C7	0.047 (2)	0.055 (3)	0.082 (3)	0.001 (2)	0.029 (2)	0.018 (3)
C8	0.045 (2)	0.041 (2)	0.0353 (19)	-0.0024 (18)	0.0191 (16)	-0.0051 (17)
C9	0.0394 (19)	0.048 (3)	0.0317 (18)	0.0020 (18)	0.0152 (16)	-0.0009 (17)
C10	0.0358 (19)	0.047 (3)	0.0346 (19)	-0.0015 (17)	0.0128 (16)	-0.0051 (18)
C11	0.039 (2)	0.045 (3)	0.047 (2)	0.0023 (19)	0.0141 (17)	-0.001 (2)
C12	0.038 (2)	0.063 (3)	0.071 (3)	0.006 (2)	0.022 (2)	0.011 (3)
C13	0.039 (2)	0.087 (4)	0.076 (3)	0.002 (2)	0.029 (2)	0.019 (3)
C14	0.042 (2)	0.064 (3)	0.056 (2)	-0.001 (2)	0.0234 (19)	0.011 (2)
C15	0.041 (2)	0.067 (3)	0.113 (4)	0.011 (2)	0.014 (3)	0.023 (3)
C16	0.053 (2)	0.042 (2)	0.045 (2)	0.0016 (19)	0.0245 (18)	0.0022 (19)
C17	0.056 (2)	0.047 (3)	0.044 (2)	-0.005 (2)	0.0149 (19)	-0.002 (2)

*Geometric parameters (Å, °)*

Sn1—C16	2.096 (4)	C6—H6	0.9300
Sn1—C17	2.101 (4)	C7—H7	0.9300
Sn1—O2	2.123 (2)	C8—C9	1.436 (5)
Sn1—O1	2.174 (3)	C8—H8	0.9300
Sn1—N2	2.187 (3)	C9—C10	1.404 (5)
C11—C5	1.752 (4)	C9—C14	1.412 (5)
N1—C1	1.313 (4)	C10—C11	1.428 (5)
N1—N2	1.403 (4)	C11—C12	1.371 (5)
N2—C8	1.290 (4)	C12—C13	1.387 (6)
O1—C1	1.281 (4)	C12—H12	0.9300
O2—C10	1.319 (4)	C13—C14	1.368 (6)
O3—C11	1.365 (5)	C13—H13	0.9300
O3—C15	1.421 (5)	C14—H14	0.9300
C1—C2	1.483 (5)	C15—H15A	0.9600
C2—C7	1.371 (5)	C15—H15B	0.9600
C2—C3	1.383 (5)	C15—H15C	0.9600
C3—C4	1.376 (5)	C16—H16A	0.9600
C3—H3	0.9300	C16—H16B	0.9600

C4—C5	1.372 (6)	C16—H16C	0.9600
C4—H4	0.9300	C17—H17A	0.9600
C5—C6	1.364 (6)	C17—H17B	0.9600
C6—C7	1.386 (6)	C17—H17C	0.9600
Sn1 <sup>i</sup> ...Sn1 <sup>i</sup>	4.3302 (6)	Cg1 <sup>i</sup> ...Cg2 <sup>ii</sup>	3.690 (5)
C16—Sn1—C17	139.41 (15)	C14—C13—H13	119.9
C16—Sn1—O2	93.81 (13)	C12—C13—H13	119.9
C17—Sn1—O2	97.74 (13)	C13—C14—C9	120.5 (4)
C16—Sn1—O1	91.21 (13)	C13—C14—H14	119.7
C17—Sn1—O1	94.93 (13)	C9—C14—H14	119.7
O2—Sn1—O1	153.92 (11)	O3—C15—H15A	109.5
C16—Sn1—N2	118.54 (12)	O3—C15—H15B	109.5
C17—Sn1—N2	101.45 (14)	H15A—C15—H15B	109.5
O2—Sn1—N2	83.18 (10)	O3—C15—H15C	109.5
O1—Sn1—N2	71.99 (10)	H15A—C15—H15C	109.5
C16—Sn1—Sn1 <sup>i</sup>	77.92 (10)	H15B—C15—H15C	109.5
C17—Sn1—Sn1 <sup>i</sup>	81.00 (11)	Sn1—C16—H16A	109.5
O2—Sn1—Sn1 <sup>i</sup>	48.68 (7)	Sn1—C16—H16B	109.5
O1—Sn1—Sn1 <sup>i</sup>	156.79 (7)	H16A—C16—H16B	109.5
N2—Sn1—Sn1 <sup>i</sup>	131.22 (7)	Sn1—C16—H16C	109.5
C1—N1—N2	111.2 (3)	H16A—C16—H16C	109.5
C8—N2—N1	114.8 (3)	H16B—C16—H16C	109.5
C8—N2—Sn1	128.4 (3)	Sn1—C17—H17A	109.5
N1—N2—Sn1	116.5 (2)	Sn1—C17—H17B	109.5
C1—O1—Sn1	114.8 (2)	H17A—C17—H17B	109.5
C10—O2—Sn1	132.1 (2)	Sn1—C17—H17C	109.5
C11—O3—C15	117.4 (3)	H17A—C17—H17C	109.5
O1—C1—N1	124.8 (3)	H17B—C17—H17C	109.5
O1—C1—C2	118.4 (3)	C3—CG1—C5	119.9 (3)
N1—C1—C2	116.7 (3)	C3—CG1—C7	119.8 (2)
C7—C2—C3	118.1 (4)	C5—CG1—C7	120.3 (2)
C7—C2—C1	120.0 (4)	C3—CG1—C6	179.4 (3)
C3—C2—C1	121.9 (3)	C5—CG1—C6	59.6 (3)
C2—C3—C4	121.9 (4)	C7—CG1—C6	60.6 (2)
C2—C3—H3	119.0	C3—CG1—C4	60.1 (2)
C4—C3—H3	119.0	C5—CG1—C4	59.8 (2)
C5—C4—C3	118.3 (4)	C7—CG1—C4	179.6 (3)
C5—C4—H4	120.8	C6—CG1—C4	119.4 (3)
C3—C4—H4	120.8	C3—CG1—C2	60.4 (2)
C6—C5—C4	121.3 (4)	C5—CG1—C2	179.2 (2)
C6—C5—C11	119.4 (3)	C7—CG1—C2	59.5 (2)
C4—C5—C11	119.3 (4)	C6—CG1—C2	120.1 (3)
C5—C6—C7	119.5 (4)	C4—CG1—C2	120.5 (2)
C5—C6—H6	120.3	C3—CG1—CG2 <sup>ii</sup>	91.56 (16)
C7—C6—H6	120.3	C5—CG1—CG2 <sup>ii</sup>	102.81 (18)
C2—C7—C6	120.8 (4)	C7—CG1—CG2 <sup>ii</sup>	75.46 (19)

C2—C7—H7	119.6	C6—CG1—CG2 <sup>ii</sup>	88.2 (2)
C6—C7—H7	119.6	C4—CG1—CG2 <sup>ii</sup>	104.11 (17)
N2—C8—C9	127.1 (4)	C2—CG1—CG2 <sup>ii</sup>	77.95 (14)
N2—C8—H8	116.4	C11—CG2—C12	59.4 (2)
C9—C8—H8	116.4	C11—CG2—C14	178.1 (2)
C10—C9—C14	120.4 (3)	C12—CG2—C14	118.9 (2)
C10—C9—C8	124.2 (4)	C11—CG2—C13	119.3 (2)
C14—C9—C8	115.5 (4)	C12—CG2—C13	59.9 (2)
O2—C10—C9	124.3 (3)	C14—CG2—C13	59.0 (2)
O2—C10—C11	118.5 (4)	C11—CG2—C9	120.8 (2)
C9—C10—C11	117.2 (3)	C12—CG2—C9	179.5 (2)
O3—C11—C12	124.2 (3)	C14—CG2—C9	61.0 (2)
O3—C11—C10	114.6 (3)	C13—CG2—C9	120.0 (2)
C12—C11—C10	121.2 (4)	C11—CG2—C10	61.1 (2)
C11—C12—C13	120.6 (4)	C12—CG2—C10	120.4 (2)
C11—C12—H12	119.7	C14—CG2—C10	120.6 (2)
C13—C12—H12	119.7	C13—CG2—C10	179.6 (3)
C14—C13—C12	120.1 (4)	C9—CG2—C10	59.7 (2)

Symmetry codes: (i)  $-x, -y+2, -z$ ; (ii)  $-x, -y+1, -z$ .

*Hydrogen-bond geometry* ( $\text{\AA}, ^\circ$ )

<i>D</i> —H $\cdots$ <i>A</i>	<i>D</i> —H	H $\cdots$ <i>A</i>	<i>D</i> $\cdots$ <i>A</i>	<i>D</i> —H $\cdots$ <i>A</i>
C15—H15B $\cdots$ O1 <sup>i</sup>	0.96	2.53	3.290 (6)	136

Symmetry code: (i)  $-x, -y+2, -z$ .