

(E)-2-[4-(Trifluoromethoxy)benzylidene]-indan-1-one

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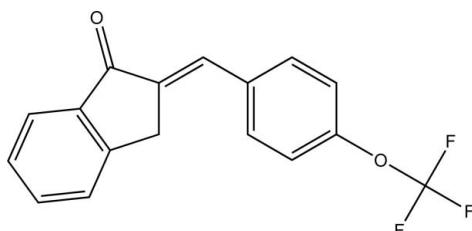
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Key indicators: single-crystal X-ray study; $T = 100\text{ K}$; mean $\sigma(\text{C}-\text{C}) = 0.003\text{ \AA}$; R factor = 0.069; wR factor = 0.181; data-to-parameter ratio = 20.3.

In the title compound, $\text{C}_{17}\text{H}_{11}\text{F}_3\text{O}_2$, the dihydroindene ring is approximately planar with a maximum deviation of $0.024(2)\text{ \AA}$ and makes a dihedral angle of $3.17(8)\text{ \AA}$ with the adjacent benzene ring. In the crystal, molecules are interconnected by $\text{C}-\text{H}\cdots\text{O}$ interactions, forming an infinite chain along the c axis.

Related literature

For the biological background to dihydroindeno and heterocyclic derivatives, see: Dinges *et al.* (2006); Garton *et al.* (2006); Lin *et al.* (1997); Hsieh *et al.* (1998); Ko *et al.* (2003). For a related structure, see: Ali *et al.* (2011). For standard bond lengths, see: Allen *et al.* (1987). For the stability of the temperature controller used in the data collection, see: Cosier & Glazer (1986).



Experimental

Crystal data

$\text{C}_{17}\text{H}_{11}\text{F}_3\text{O}_2$

$M_r = 304.26$

Monoclinic, $P2_1/c$

$a = 15.2216(4)\text{ \AA}$

$b = 14.6734(4)\text{ \AA}$

$c = 6.1463(1)\text{ \AA}$

$\beta = 95.872(1)^\circ$

$V = 1365.59(6)\text{ \AA}^3$

$Z = 4$

Mo $K\alpha$ radiation

$\mu = 0.12\text{ mm}^{-1}$

$T = 100\text{ K}$

$0.38 \times 0.20 \times 0.18\text{ mm}$

Data collection

Bruker SMART APEXII CCD area-detector diffractometer
Absorption correction: multi-scan (*SADABS*; Bruker, 2009)
 $T_{\min} = 0.955$, $T_{\max} = 0.978$

27814 measured reflections
4043 independent reflections
3389 reflections with $I > 2\sigma(I)$
 $R_{\text{int}} = 0.036$

Refinement

$R[F^2 > 2\sigma(F^2)] = 0.069$
 $wR(F^2) = 0.181$
 $S = 1.11$
4043 reflections

199 parameters
H-atom parameters constrained
 $\Delta\rho_{\max} = 0.87\text{ e \AA}^{-3}$
 $\Delta\rho_{\min} = -0.28\text{ e \AA}^{-3}$

Table 1
Hydrogen-bond geometry (\AA , $^\circ$).

$D-\text{H}\cdots A$	$D-\text{H}$	$\text{H}\cdots A$	$D\cdots A$	$D-\text{H}\cdots A$
C1—H1B \cdots O1 ⁱ	0.99	2.51	3.304 (2)	137
C10—H10A \cdots O1 ⁱⁱ	0.95	2.45	3.309 (2)	151

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

Data collection: *APEX2* (Bruker, 2009); cell refinement: *SAINT* (Bruker, 2009); data reduction: *SAINT*; program(s) used to solve structure: *SHELXTL* (Sheldrick, 2008); program(s) used to refine structure: *SHELXTL*; molecular graphics: *SHELXTL*; software used to prepare material for publication: *SHELXTL* and *PLATON* (Spek, 2009).

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Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: SJ5181).

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supporting information

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S1. Comment

Recently it has been reported that dihydroindeno derivatives represent a novel class of KDR kinase inhibitors (Dinges *et al.* 2006) with inhibition of both KDR and cKit in the appropriate tumor types. They also have the potential to produce antitumor effects through two distinct mechanisms. Inhibition of cKit should result in direct effects on the tumor cell phenotype, while inhibition of KDR should produce indirect effects *via* disruption of endothelial cell function (Garton *et al.* 2006). Some of the heterocyclic derivatives inhibited the release of chemical mediators from mast cells, neutrophils, macrophages, and microglial cells *in vitro*, and suppressed the oedematous response *in vivo* (Lin *et al.* 1997, Hsieh *et al.* 1998, Ko *et al.* 2003). Many antitumor drugs have been developed for prostate cancer patients but their intolerable systemic toxicity often limits their clinical use. The title compound contains the dihydroindene unit and its structure is reported here, Fig 1.

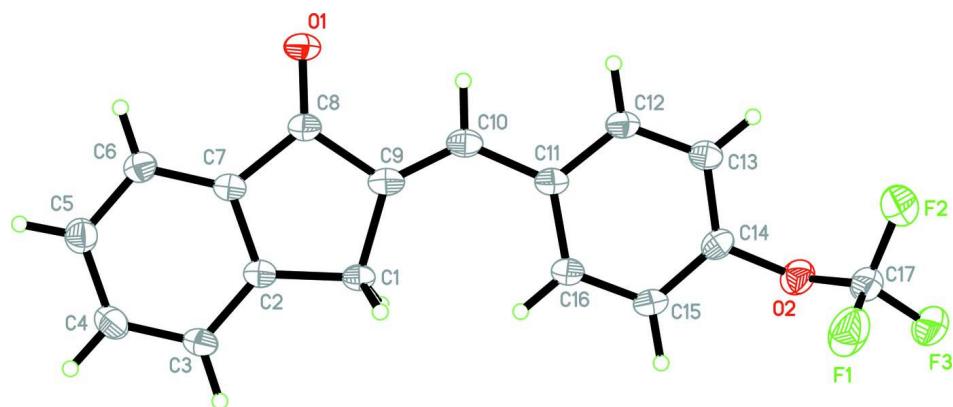
All bond lengths (Allen *et al.*, 1987) and angles in (I) are within normal ranges. The dihydroindene ring is planar with a maximum deviation of 0.024 (2) Å and it makes a dihedral angle of 3.17 (8)° with the adjacent benzene ring (Fig. 1). In the crystal, the molecules are interconnected by C—H···O interactions (Table 1) to form infinite chains along the *c* axis (Fig. 2).

S2. Experimental

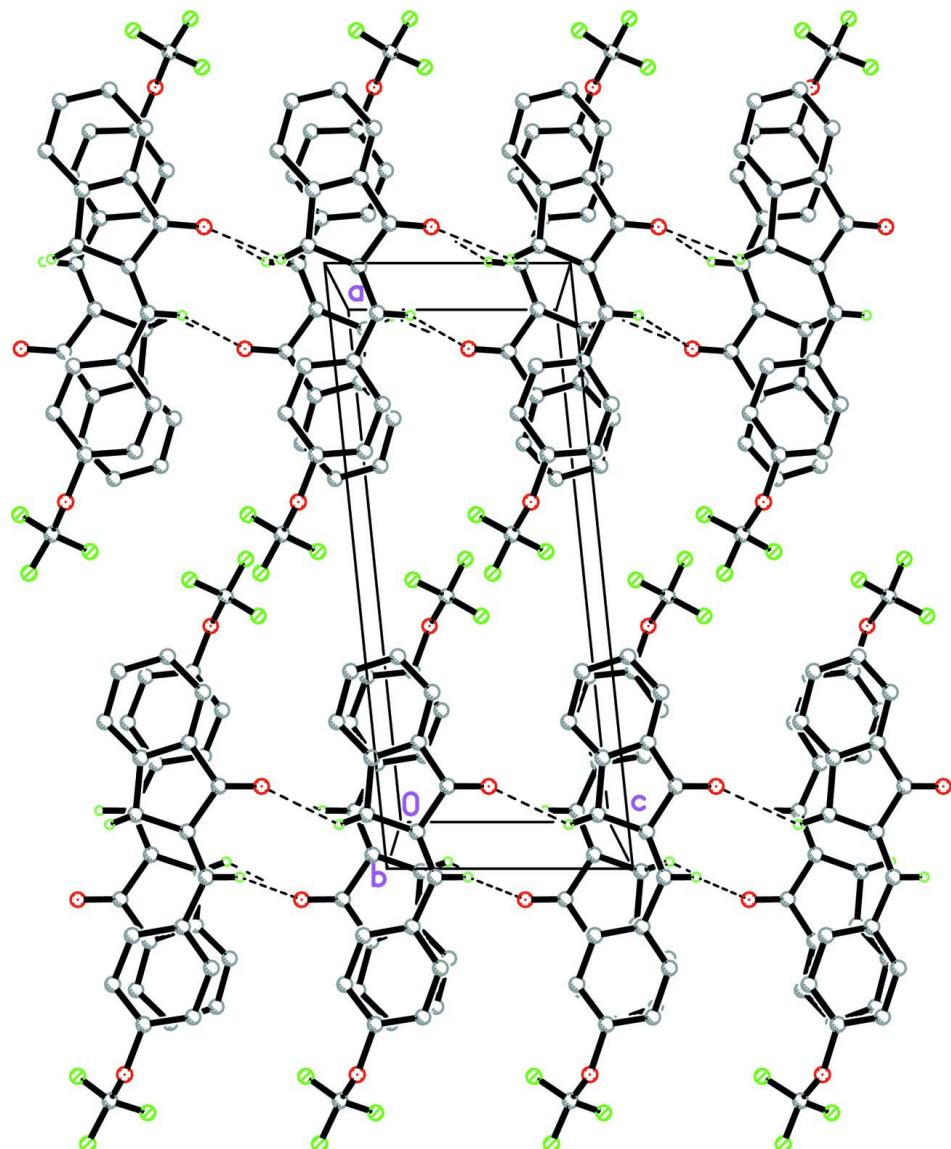
A mixture of 2,3-dihydro-1*H*-indene-1-one (0.001 mmol) and 4-trifluoromethoxy benzaldehyde (0.001 mmol) was dissolved in methanol (10 ml) and 30% sodium hydroxide solution (5 ml) was added and stirred for 5 h. After completion of the reaction as evident from TLC, the mixture was poured into crushed ice and then neutralized with Con HCl. The precipitated solid was filtered, washed with water and recrystallized from ethanol to reveal the title compound as light yellow crystals.

S3. Refinement

All H-atoms were positioned geometrically and refined using a riding model, with C—H = 0.95 and 0.99 Å, and with $U_{\text{iso}} = 1.2U_{\text{eq}}(\text{C})$.

**Figure 1**

The molecular structure, showing 50% probability displacement ellipsoids. Hydrogen atoms are shown as spheres of arbitrary radius.

**Figure 2**

The packing of (I) showing infinite chains along c axis. Dashed lines indicate hydrogen bonds. H atoms not involved in the hydrogen bond interactions have been omitted for clarity.

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$C_{17}H_{11}F_3O_2$
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Monoclinic, $P2_1/c$
Hall symbol: -P 2ybc
 $a = 15.2216 (4)$ Å
 $b = 14.6734 (4)$ Å
 $c = 6.1463 (1)$ Å
 $\beta = 95.872 (1)^\circ$
 $V = 1365.59 (6)$ Å³
 $Z = 4$

$F(000) = 624$
 $D_x = 1.480$ Mg m⁻³
Mo $K\alpha$ radiation, $\lambda = 0.71073$ Å
Cell parameters from 9932 reflections
 $\theta = 2.7\text{--}30.0^\circ$
 $\mu = 0.12$ mm⁻¹
 $T = 100$ K
Block, light-yellow
 $0.38 \times 0.20 \times 0.18$ mm

Data collection

Bruker SMART APEXII CCD area-detector
diffractometer
Radiation source: fine-focus sealed tube
Graphite monochromator
 φ and ω scans
Absorption correction: multi-scan
(*SADABS*; Bruker, 2009)
 $T_{\min} = 0.955$, $T_{\max} = 0.978$

27814 measured reflections
4043 independent reflections
3389 reflections with $I > 2\sigma(I)$
 $R_{\text{int}} = 0.036$
 $\theta_{\max} = 30.2^\circ$, $\theta_{\min} = 1.3^\circ$
 $h = -21 \rightarrow 21$
 $k = -19 \rightarrow 20$
 $l = -8 \rightarrow 8$

Refinement

Refinement on F^2
Least-squares matrix: full
 $R[F^2 > 2\sigma(F^2)] = 0.069$
 $wR(F^2) = 0.181$
 $S = 1.11$
4043 reflections
199 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
 $w = 1/[\sigma^2(F_o^2) + (0.0634P)^2 + 1.8592P]$
where $P = (F_o^2 + 2F_c^2)/3$
 $(\Delta/\sigma)_{\max} < 0.001$
 $\Delta\rho_{\max} = 0.87 \text{ e } \text{\AA}^{-3}$
 $\Delta\rho_{\min} = -0.28 \text{ e } \text{\AA}^{-3}$

Special details

Experimental. The crystal was placed in the cold stream of an Oxford Cryosystems Cobra open-flow nitrogen cryostat (Cosier & Glazer, 1986) operating at 100.0 (1) K.

Geometry. All e.s.d.'s (except the e.s.d. in the dihedral angle between two l.s. planes) are estimated using the full covariance matrix. The cell e.s.d.'s are taken into account individually in the estimation of e.s.d.'s in distances, angles and torsion angles; correlations between e.s.d.'s in cell parameters are only used when they are defined by crystal symmetry. An approximate (isotropic) treatment of cell e.s.d.'s is used for estimating e.s.d.'s involving l.s. planes.

Refinement. Refinement of F^2 against ALL reflections. The weighted R -factor wR and goodness of fit S are based on F^2 , conventional R -factors R are based on F , with F set to zero for negative F^2 . The threshold expression of $F^2 > \sigma(F^2)$ is used only for calculating R -factors(gt) etc. and is not relevant to the choice of reflections for refinement. R -factors based on F^2 are statistically about twice as large as those based on F , and R -factors based on ALL data will be even larger.

Fractional atomic coordinates and isotropic or equivalent isotropic displacement parameters (\AA^2)

	x	y	z	$U_{\text{iso}}^*/U_{\text{eq}}$
F1	0.40870 (11)	0.43026 (14)	0.4881 (3)	0.0493 (5)
F2	0.47465 (10)	0.43584 (13)	0.1983 (3)	0.0481 (4)
F3	0.51278 (10)	0.33503 (13)	0.4426 (3)	0.0467 (4)
O1	-0.10593 (11)	0.45341 (11)	-0.4450 (2)	0.0277 (3)
O2	0.38837 (11)	0.31658 (12)	0.2471 (3)	0.0315 (4)
C1	-0.06329 (13)	0.35420 (13)	0.0949 (3)	0.0211 (4)
H1A	-0.0435	0.2906	0.1220	0.025*
H1B	-0.0424	0.3919	0.2234	0.025*
C2	-0.16251 (14)	0.35906 (13)	0.0484 (3)	0.0205 (4)
C3	-0.22701 (14)	0.33207 (14)	0.1806 (3)	0.0245 (4)
H3A	-0.2111	0.3077	0.3224	0.029*
C4	-0.31497 (15)	0.34167 (16)	0.1000 (4)	0.0294 (5)
H4A	-0.3595	0.3233	0.1883	0.035*
C5	-0.33995 (15)	0.37768 (16)	-0.1085 (4)	0.0287 (4)

H5A	-0.4007	0.3834	-0.1596	0.034*
C6	-0.27604 (14)	0.40491 (14)	-0.2400 (3)	0.0244 (4)
H6A	-0.2921	0.4295	-0.3815	0.029*
C7	-0.18764 (13)	0.39517 (13)	-0.1592 (3)	0.0199 (4)
C8	-0.10851 (14)	0.41903 (13)	-0.2650 (3)	0.0217 (4)
C9	-0.02974 (15)	0.39174 (14)	-0.1129 (3)	0.0236 (4)
C10	0.05182 (15)	0.40510 (14)	-0.1712 (3)	0.0238 (4)
H10A	0.0541	0.4300	-0.3132	0.029*
C11	0.13779 (14)	0.38722 (14)	-0.0497 (3)	0.0231 (4)
C12	0.21341 (14)	0.40795 (14)	-0.1522 (3)	0.0229 (4)
H12A	0.2071	0.4368	-0.2913	0.027*
C13	0.29726 (14)	0.38732 (14)	-0.0553 (3)	0.0245 (4)
H13A	0.3481	0.3999	-0.1280	0.029*
C14	0.30495 (14)	0.34785 (14)	0.1510 (3)	0.0231 (4)
C15	0.23247 (14)	0.32961 (14)	0.2623 (3)	0.0232 (4)
H15A	0.2398	0.3041	0.4051	0.028*
C16	0.14908 (14)	0.34919 (14)	0.1619 (3)	0.0247 (4)
H16A	0.0987	0.3368	0.2366	0.030*
C17	0.44420 (15)	0.37880 (19)	0.3410 (4)	0.0334 (5)

Atomic displacement parameters (\AA^2)

	U^{11}	U^{22}	U^{33}	U^{12}	U^{13}	U^{23}
F1	0.0378 (9)	0.0719 (12)	0.0369 (8)	0.0042 (8)	-0.0022 (6)	-0.0208 (8)
F2	0.0344 (8)	0.0604 (11)	0.0489 (9)	-0.0086 (7)	0.0013 (7)	0.0168 (8)
F3	0.0275 (7)	0.0728 (12)	0.0387 (8)	0.0091 (7)	-0.0019 (6)	0.0124 (8)
O1	0.0325 (8)	0.0316 (8)	0.0196 (7)	-0.0001 (6)	0.0050 (6)	0.0053 (6)
O2	0.0285 (8)	0.0346 (9)	0.0309 (8)	0.0073 (7)	0.0000 (6)	0.0027 (6)
C1	0.0264 (10)	0.0186 (9)	0.0186 (8)	-0.0006 (7)	0.0030 (7)	0.0032 (6)
C2	0.0271 (10)	0.0157 (8)	0.0188 (8)	0.0003 (7)	0.0039 (7)	-0.0003 (6)
C3	0.0305 (11)	0.0230 (9)	0.0211 (9)	0.0009 (8)	0.0076 (7)	0.0024 (7)
C4	0.0296 (11)	0.0299 (11)	0.0302 (11)	0.0011 (9)	0.0110 (8)	0.0025 (8)
C5	0.0262 (10)	0.0294 (11)	0.0306 (11)	0.0015 (8)	0.0035 (8)	0.0004 (8)
C6	0.0276 (10)	0.0238 (9)	0.0218 (9)	0.0018 (8)	0.0019 (7)	0.0002 (7)
C7	0.0261 (10)	0.0160 (8)	0.0178 (8)	-0.0006 (7)	0.0042 (7)	-0.0007 (6)
C8	0.0271 (10)	0.0192 (9)	0.0192 (8)	0.0002 (7)	0.0037 (7)	0.0014 (6)
C9	0.0331 (11)	0.0198 (9)	0.0183 (8)	0.0003 (8)	0.0040 (7)	0.0004 (7)
C10	0.0327 (11)	0.0208 (9)	0.0184 (8)	-0.0006 (8)	0.0043 (7)	-0.0009 (7)
C11	0.0285 (10)	0.0216 (9)	0.0194 (9)	-0.0007 (8)	0.0029 (7)	0.0024 (7)
C12	0.0300 (10)	0.0213 (9)	0.0173 (8)	-0.0030 (8)	0.0023 (7)	0.0006 (7)
C13	0.0281 (10)	0.0252 (10)	0.0208 (9)	0.0004 (8)	0.0050 (7)	-0.0010 (7)
C14	0.0271 (10)	0.0201 (9)	0.0214 (9)	0.0029 (7)	-0.0013 (7)	-0.0009 (7)
C15	0.0310 (10)	0.0207 (9)	0.0175 (8)	0.0004 (8)	0.0011 (7)	0.0014 (7)
C16	0.0272 (10)	0.0257 (10)	0.0214 (9)	-0.0010 (8)	0.0036 (7)	0.0057 (7)
C17	0.0248 (11)	0.0483 (14)	0.0268 (10)	0.0028 (10)	0.0014 (8)	0.0033 (9)

Geometric parameters (\AA , \circ)

F1—C17	1.334 (3)	C6—C7	1.393 (3)
F2—C17	1.330 (3)	C6—H6A	0.9500
F3—C17	1.326 (3)	C7—C8	1.469 (3)
O1—C8	1.220 (2)	C8—C9	1.497 (3)
O2—C17	1.337 (3)	C9—C10	1.341 (3)
O2—C14	1.421 (2)	C10—C11	1.463 (3)
C1—C2	1.510 (3)	C10—H10A	0.9500
C1—C9	1.526 (3)	C11—C12	1.401 (3)
C1—H1A	0.9900	C11—C16	1.409 (3)
C1—H1B	0.9900	C12—C13	1.386 (3)
C2—C3	1.395 (3)	C12—H12A	0.9500
C2—C7	1.398 (3)	C13—C14	1.388 (3)
C3—C4	1.387 (3)	C13—H13A	0.9500
C3—H3A	0.9500	C14—C15	1.382 (3)
C4—C5	1.402 (3)	C15—C16	1.384 (3)
C4—H4A	0.9500	C15—H15A	0.9500
C5—C6	1.386 (3)	C16—H16A	0.9500
C5—H5A	0.9500		
C17—O2—C14	117.40 (18)	C10—C9—C1	132.40 (19)
C2—C1—C9	103.78 (16)	C8—C9—C1	107.68 (17)
C2—C1—H1A	111.0	C9—C10—C11	129.92 (19)
C9—C1—H1A	111.0	C9—C10—H10A	115.0
C2—C1—H1B	111.0	C11—C10—H10A	115.0
C9—C1—H1B	111.0	C12—C11—C16	118.21 (19)
H1A—C1—H1B	109.0	C12—C11—C10	117.70 (17)
C3—C2—C7	119.75 (19)	C16—C11—C10	124.08 (19)
C3—C2—C1	128.79 (18)	C13—C12—C11	121.48 (18)
C7—C2—C1	111.46 (17)	C13—C12—H12A	119.3
C4—C3—C2	118.33 (19)	C11—C12—H12A	119.3
C4—C3—H3A	120.8	C12—C13—C14	118.15 (19)
C2—C3—H3A	120.8	C12—C13—H13A	120.9
C3—C4—C5	121.8 (2)	C14—C13—H13A	120.9
C3—C4—H4A	119.1	C15—C14—C13	122.39 (19)
C5—C4—H4A	119.1	C15—C14—O2	117.17 (18)
C6—C5—C4	120.1 (2)	C13—C14—O2	120.18 (19)
C6—C5—H5A	120.0	C14—C15—C16	118.77 (18)
C4—C5—H5A	120.0	C14—C15—H15A	120.6
C5—C6—C7	118.19 (19)	C16—C15—H15A	120.6
C5—C6—H6A	120.9	C15—C16—C11	120.89 (19)
C7—C6—H6A	120.9	C15—C16—H16A	119.6
C6—C7—C2	121.90 (18)	C11—C16—H16A	119.6
C6—C7—C8	128.58 (18)	F3—C17—F2	107.74 (19)
C2—C7—C8	109.52 (17)	F3—C17—F1	108.00 (19)
O1—C8—C7	127.16 (19)	F2—C17—F1	106.5 (2)
O1—C8—C9	125.34 (19)	F3—C17—O2	107.9 (2)

C7—C8—C9	107.49 (16)	F2—C17—O2	113.2 (2)
C10—C9—C8	119.89 (18)	F1—C17—O2	113.3 (2)
C9—C1—C2—C3	178.8 (2)	C2—C1—C9—C10	179.7 (2)
C9—C1—C2—C7	-0.3 (2)	C2—C1—C9—C8	1.8 (2)
C7—C2—C3—C4	0.4 (3)	C8—C9—C10—C11	177.73 (19)
C1—C2—C3—C4	-178.7 (2)	C1—C9—C10—C11	0.1 (4)
C2—C3—C4—C5	-0.2 (3)	C9—C10—C11—C12	179.9 (2)
C3—C4—C5—C6	-0.1 (4)	C9—C10—C11—C16	1.0 (4)
C4—C5—C6—C7	0.1 (3)	C16—C11—C12—C13	3.6 (3)
C5—C6—C7—C2	0.0 (3)	C10—C11—C12—C13	-175.43 (19)
C5—C6—C7—C8	-179.7 (2)	C11—C12—C13—C14	-2.0 (3)
C3—C2—C7—C6	-0.3 (3)	C12—C13—C14—C15	-0.7 (3)
C1—C2—C7—C6	178.95 (18)	C12—C13—C14—O2	173.25 (18)
C3—C2—C7—C8	179.50 (18)	C17—O2—C14—C15	-105.6 (2)
C1—C2—C7—C8	-1.3 (2)	C17—O2—C14—C13	80.1 (3)
C6—C7—C8—O1	1.1 (3)	C13—C14—C15—C16	1.8 (3)
C2—C7—C8—O1	-178.7 (2)	O2—C14—C15—C16	-172.35 (18)
C6—C7—C8—C9	-177.8 (2)	C14—C15—C16—C11	-0.2 (3)
C2—C7—C8—C9	2.4 (2)	C12—C11—C16—C15	-2.4 (3)
O1—C8—C9—C10	0.3 (3)	C10—C11—C16—C15	176.49 (19)
C7—C8—C9—C10	179.24 (18)	C14—O2—C17—F3	172.57 (17)
O1—C8—C9—C1	178.51 (19)	C14—O2—C17—F2	-68.3 (3)
C7—C8—C9—C1	-2.6 (2)	C14—O2—C17—F1	53.1 (3)

Hydrogen-bond geometry (Å, °)

D—H···A	D—H	H···A	D···A	D—H···A
C1—H1B···O1 ⁱ	0.99	2.51	3.304 (2)	137
C10—H10A···O1 ⁱⁱ	0.95	2.45	3.309 (2)	151

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