

Retraction of articles

This article reports the retraction of articles published in *Acta Crystallographica Section E* between 2005 and 2009.

After further thorough investigation (see Harrison *et al.*, 2010), articles are retracted as a result of problems with the data sets or incorrect atom assignments. Full details of all the articles are given in Table 1.

Table 1

Details of articles to be retracted, in order of publication.

Title	Reference	DOI	Refcode
<i>Poly[diatetra-μ₃-malonato-μ-pyrazine-dinickel(II)] catena-Poly[[[diaqua(6-carboxypyridine-2-carboxylato)samarium(II)]-μ-pyridine-2,6-dicarboxylato] tetrahydrate]</i>	Liu <i>et al.</i> (2005)	10.1107/S1600536805026358	GATWAA
<i>Poly[[[μ₄-4,4'-carbonylbis(benzene-3,4-dicarboxylato)]tetrakis(1,10-phenanthroline)-dipalladium(II)] dihydrate]</i>	Liu <i>et al.</i> (2006)	10.1107/S1600536806038141	FONCUH03
<i>Poly[diatetra-μ₃-malonato-μ-pyrazine-diiron(II)]</i>	Li, Wang, Zhang & Yu (2007e)	10.1107/S1600536807039050	AFELAZ
<i>Poly[diatetra-μ₃-malonato-μ-pyrazine-dimanganese(II)]</i>	Li, Liu <i>et al.</i> (2007)	10.1107/S1600536807038743	AFELON
<i>Poly[aqua(2,2-bipyridine)(μ₃-pyridine-3,4-dicarboxylato)cobalt(II)] monohydrate]</i>	Li, Wang, Zhang & Yu (2007f)	10.1107/S1600536807039773	VIJZAO
<i>catena-Poly[[[diaqua(6-carboxypyridine-2-carboxylato)holmium(III)]-μ-pyridine-2,6-dicarboxylato] tetrahydrate]</i>	Li, Wang, Zhang & Yu (2007g)	10.1107/S1600536807040275	VIKICIC
<i>catena-Poly[[[2,2'-bipyridine-κ²N,N']iron(II)]-μ-5-carboxy-4-carboxylatoimidazol-1-ido-κ⁴N³,O⁴:N¹,O²]</i>	Li, Wang, Zhang & Yu (2007a)	10.1107/S1600536807041657	DILGEL
<i>Poly[aqua(2,2'-bipyridine)(μ₃-pyridine-3,4-dicarboxylato)nickel(II)] monohydrate]</i>	Li, Wang, Zhang & Yu (2007b)	10.1107/S1600536807042122	XIKWAO
<i>2-(Benzyliminomethyl)-6-methoxyphenol</i>	Li, Wang, Zhang & Yu (2007b)	10.1107/S1600536807046466	LEVZAO01
<i>Poly[aqua(2,2'-bipyridine)(μ₃-pyridine-2,4-dicarboxylato)palladium(II)]</i>	Li, Wang, Zhang & Yu (2007i)	10.1107/S1600536807042134	SILDEX
<i>μ-Oxido-bis[chlorido[tris(2-pyridylmethyl)amine]iron(III)] bis(hexafluoridophosphate)</i>	Li, Wang, Zhang & Yu (2007c)	10.1107/S1600536807047575	SILXAN
<i>μ-Oxido-bis[(4,4'-dibromo-2,2'-[ethane-1,2-diylbis(nitrilomethylidyne)]diphenolato)-manganese(III)]</i>	Liu, Dou, Li & Zhang (2007)	10.1107/S1600536807049665	TINRIS
<i>Bis[N-(8-quinolyl)pyridine-2-carboxamidato]iron(III) perchlorate monohydrate</i>	Liu, Dou, Niu & Zhang (2007a)	10.1107/S1600536807051008	GIMZAE
<i>μ-Oxido-bis[(4,4'-dibromo-2,2'-[ethane-1,2-diylbis(nitrilomethylidyne)]diphenolato)-chromium(III)]</i>	Li, Wang, Zhang & Yu (2007d)	10.1107/S1600536807048556	WIMZIC
<i>μ-Oxido-bis[chlorido[tris(2-pyridylmethyl)amine]chromium(III)] bis(hexafluoridophosphate)</i>	Liu, Dou, Niu & Zhang (2007b)	10.1107/S1600536807057996	HIOFIX
<i>μ-Oxido-bis[(4,4'-dibromo-2,2'-[ethane-1,2-diylbis(nitrilomethylidyne)]diphenolato)-iron(III)]</i>	Li, Wang <i>et al.</i> (2008)	10.1107/S1600536807061296	MIRNAD
<i>catena-Poly[[bis(1H-benzimidazole-κ³N,N',N'')palladium(II)]-μ-benzene-1,4-dicarboxylato-κ²O¹:O²]</i>	Meng <i>et al.</i> (2008a)	10.1107/S1600536807063143	MIRWUG
<i>Oxalato-bis(propene-1,3-diamine)manganese(II) chloride monohydrate</i>	Meng <i>et al.</i> (2008b)	10.1107/S1600536807065051	XISCAE
<i>μ-Oxido-bis[chlorido[tris(2-pyridylmethyl)amine]manganese(III)] bis(hexafluoridophosphate)</i>	Meng <i>et al.</i> (2008e)	10.1107/S1600536807065361	SISWIB
<i>Bis[N-(8-quinolyl)pyridine-2-carboxamidato-κ³N,N',N'')manganese(III) perchlorate monohydrate</i>	Meng <i>et al.</i> (2008c)	10.1107/S1600536807066512	RISRIV
<i>Diaquabis(pyridine-2-carboxylato-κ²N,O)cobalt(II)</i>	Meng <i>et al.</i> (2008d)	10.1107/S1600536808000287	GISLEA
<i>Tetra-μ-2,5-difluorobenzoato-bis[(2,2'-bipyridine)(2,5-difluorobenzoato)gadolinium(III)]</i>	Huang (2008)	10.1107/S1600536808010507	WIZPOL
<i>catena-Poly[[[2,2'-bipyridine-κ²N,N']nickel(II)]-μ-oxalato-κ⁴O¹,O²:O¹,O²]</i>	Li, Zhang <i>et al.</i> (2008)	10.1107/S1600536808023507	BOFQIX
<i>catena-Poly[[aqua(2,2'-bipyridyl)cobalt(II)]-μ-5-nitrosophthalalato]</i>	Li, Yan <i>et al.</i> (2008)	10.1107/S1600536808028389	NOHYUF
<i>Diaquabis(pyridine-2-carboxylato-κ²N,O)iron(II)</i>	Liu <i>et al.</i> (2008)	10.1107/S1600536808038178	AFIREN
<i>catena-Poly[[[diaquathulium(III)]-μ-6-carboxynicotinato-μ-pyridine-2,5-dicarboxylato] dihydrate]</i>	Xia & Sun (2009)	10.1107/S1600536809005765	RONFEG
<i>1-Phenyl-3-(2,4,6-trimethoxyphenyl)prop-2-en-1-one</i>	Li <i>et al.</i> (2009)	10.1107/S1600536809008836	NOQNIR
	Liu <i>et al.</i> (2009)	10.1107/S1600536809040227	PUGLOT

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Acta Crystallographica Section E

Structure Reports

Online

ISSN 1600-5368

1-Phenyl-3-(2,4,6-trimethoxyphenyl)-prop-2-en-1-one

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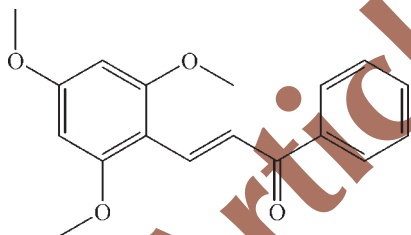
Received 25 September 2009; accepted 2 October 2009

Key indicators: single-crystal X-ray study; $T = 293$ K; mean $\sigma(\text{C}-\text{C}) = 0.002$ Å; R factor = 0.036; wR factor = 0.108; data-to-parameter ratio = 12.7.

In the title compound, $\text{C}_{18}\text{H}_{18}\text{O}_4$, the dihedral angle between the mean planes of the aromatic rings is 7.39 (6)°. The dihedral angles between the linking $\text{C}-\text{C}=\text{C}-\text{C}$ plane and the phenyl and benzene rings are 11.27 (5) and 4.20 (5)°, respectively.

Related literature

For background to the properties and applications of chalcones, see: Satish *et al.*, (1995), Meng *et al.*, (2004), Indira *et al.*, (2002). For the synthesis, see: Migrdichian (1957).



Experimental

Crystal data

$\text{C}_{18}\text{H}_{18}\text{O}_4$

$M_r = 298.32$

Monoclinic, $P2_1/c$
 $a = 8.8921$ (10) Å
 $b = 15.114$ (3) Å
 $c = 11.618$ (3) Å
 $\beta = 104.289$ (10)°
 $V = 1513.1$ (5) Å³

$Z = 4$
Mo $K\alpha$ radiation
 $\mu = 0.09$ mm⁻¹
 $T = 293$ K
 $0.12 \times 0.10 \times 0.05$ mm

Data collection

Bruker SMART CCD diffractometer
Absorption correction: multi-scan (SADABS; Bruker, 2005)
 $T_{\min} = 0.989$, $T_{\max} = 0.995$

7545 measured reflections
2581 independent reflections
2037 reflections with $I > 2\sigma(I)$
 $R_{\text{int}} = 0.037$

Refinement

$R[F^2 > 2\sigma(F^2)] = 0.036$
 $wR(F^2) = 0.108$
 $S = 1.01$
2581 reflections

203 parameters
H-atom parameters constrained
 $\Delta\rho_{\text{max}} = 0.13$ e Å⁻³
 $\Delta\rho_{\text{min}} = -0.13$ e Å⁻³

Data collection: SMART (Bruker, 2005); cell refinement: SAINT (Bruker, 2005); data reduction: SAINT; program(s) used to solve structure: SHELXS97 (Sheldrick, 2008); program(s) used to refine structure: SHELXL97 (Sheldrick, 2008); molecular graphics: XP in SHELXTL (Sheldrick, 2008); software used to prepare material for publication: SHELXL97.

The work was supported by Liaocheng University (grant No. X071011) and the National Ministry of Science and Technology of China (grant No. 20501011).

Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: HB5119).

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supporting information

Acta Cryst. (2009). E65, o2724 [https://doi.org/10.1107/S1600536809040227]

1-Phenyl-3-(2,4,6-trimethoxyphenyl)prop-2-en-1-one

Ying Liu, Xianxi Zhang, Zechun Xue and Chunyan Lv

S1. Comment

In recent years, chalcones consisting of -C=C-C(O)- group have been widely researched due to their interesting properties, such as photoreaction (Satish *et al.*, 1995), biological activity (Meng *et al.*, 2004) and non-linear optical properties (Indira *et al.*, 2002). Herein, we report the synthesis and structure of the title compound.

As shown in figure 1, the C(1)—C(6) phenyl ring is taken as plane 1, another C(10)—C(15) one as plane 2 and the central C(7)—C(8)=C(9)—C(10) as plane 3, with the dihedral angles between them, A12, A13 and A23, of 7.39, 11.27 and 4.20 °, respectively, showing the two phenyl rings are rotated oppositely with respect to the central part of plane 3. The torsional angle C(7)—C(8)=C(9)—C(10) is 177.5 ° and the phenone O(1) atom deviates from plane 3 by 0.13 Å, suggesting C=O is not coplanar with this plane.

S2. Experimental

The synthesis of the title compound was according to the related literature (Migrdichian *et al.*, (1957)). An aqueous solution of sodium hydroxide (10%, 10 ml) was added to the mixture of acetophenone (0.02 mol) and 2,4,6-trimethoxyphenylaldehyde (0.02 mol) in 95% ethanol (30 ml). The reaction mixture was stirred at room temperature for 5 h, yielding light yellow solid neutralized by hydrochloric acid (10%) and water. Colourless blocks of (I) were obtained by slow evaporation from dry ethanol. Elemental Analysis. Calc. for $\text{C}_{18}\text{H}_{18}\text{O}_4$: C 72.41, H 6.03%; Found: C 72.38, H 6.01%.

S3. Refinement

The H atoms were placed in calculated positions ($\text{C-H} = 0.93\text{--}0.96\text{Å}$) and refined as riding with $U_{\text{iso}}(\text{H}) = 1.2U_{\text{eq}}(\text{C})$ or $1.5U_{\text{eq}}(\text{methyl C})$.

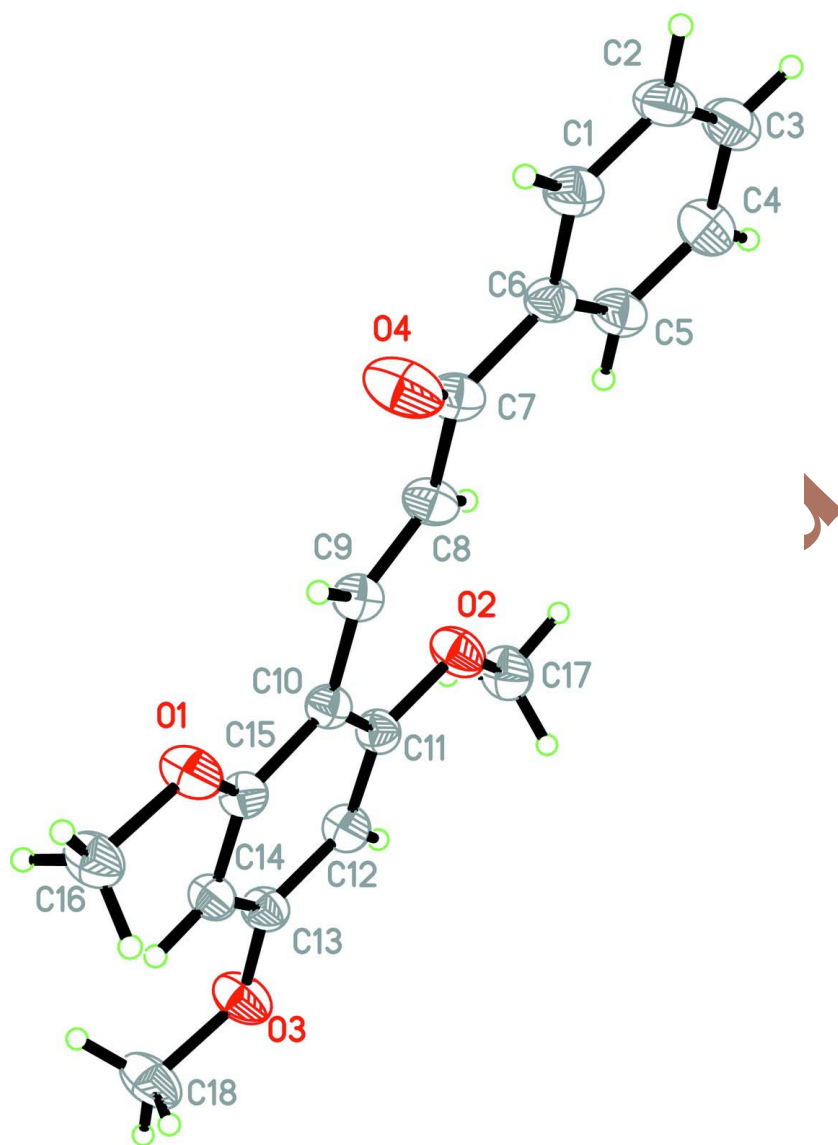


Figure 1

A view of the structure of (I), showing 30% probability displacement ellipsoids for the non-hydrogen atoms.

1-Phenyl-3-(2,4,6-trimethoxyphenyl)prop-2-en-1-one

Crystal data

$C_{18}H_{18}O_4$
 $M_r = 298.32$
 Monoclinic, $P2_1/c$
 Hall symbol: $-P 2_1/c$
 $a = 8.8921 (10) \text{ \AA}$
 $b = 15.114 (3) \text{ \AA}$
 $c = 11.618 (3) \text{ \AA}$
 $\beta = 104.289 (10)^\circ$
 $V = 1513.1 (5) \text{ \AA}^3$
 $Z = 4$

$F(000) = 632$
 $D_x = 1.310 \text{ Mg m}^{-3}$
 Mo $K\alpha$ radiation, $\lambda = 0.71073 \text{ \AA}$
 Cell parameters from 2581 reflections
 $\theta = 2.4\text{--}25.0^\circ$
 $\mu = 0.09 \text{ mm}^{-1}$
 $T = 293 \text{ K}$
 Block, colourless
 $0.12 \times 0.10 \times 0.05 \text{ mm}$

Data collection

Bruker SMART CCD
diffractometer
Radiation source: fine-focus sealed tube
Graphite monochromator
 ω scans
Absorption correction: multi-scan
(*SADABS*; Bruker, 2005)
 $T_{\min} = 0.989$, $T_{\max} = 0.995$

7545 measured reflections
2581 independent reflections
2037 reflections with $I > 2\sigma(I)$
 $R_{\text{int}} = 0.037$
 $\theta_{\max} = 25.0^\circ$, $\theta_{\min} = 2.4^\circ$
 $h = -10 \rightarrow 10$
 $k = -17 \rightarrow 16$
 $l = -13 \rightarrow 13$

Refinement

Refinement on F^2
Least-squares matrix: full
 $R[F^2 > 2\sigma(F^2)] = 0.036$
 $wR(F^2) = 0.108$
 $S = 1.01$
2581 reflections
203 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
 $w = 1/[\sigma^2(F_o^2) + (0.0725P)^2]$
where $P = (F_o^2 + 2F_c^2)/3$
 $(\Delta/\sigma)_{\max} < 0.001$
 $\Delta\rho_{\max} = 0.13 \text{ e } \text{\AA}^{-3}$
 $\Delta\rho_{\min} = -0.13 \text{ e } \text{\AA}^{-3}$
Extinction correction: *SHELXL97* (Sheldrick,
2008), $F_c^* = kF_c [1 + 0.001x F_c^2 \lambda^3 / \sin(2\theta)]^{-1/4}$
Extinction coefficient: 0.329 (18)

Special details

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)

	<i>x</i>	<i>y</i>	<i>z</i>	$U_{\text{iso}}^*/U_{\text{eq}}$
C1	-0.14370 (15)	0.24856 (10)	0.22992 (12)	0.0564 (4)
H1	-0.1511	0.2141	0.2946	0.068*
C2	-0.25419 (15)	0.31225 (11)	0.18742 (14)	0.0645 (4)
H2	-0.3356	0.3200	0.2236	0.077*
C3	-0.24594 (16)	0.36410 (11)	0.09297 (14)	0.0653 (4)
H3	-0.3202	0.4076	0.0659	0.078*
C4	-0.12883 (17)	0.35171 (10)	0.03889 (13)	0.0654 (4)
H4	-0.1228	0.3865	-0.0258	0.078*
C5	-0.01819 (15)	0.28718 (9)	0.08018 (12)	0.0550 (4)
H5	0.0607	0.2784	0.0417	0.066*
C6	-0.02275 (13)	0.23540 (9)	0.17773 (10)	0.0463 (3)
C7	0.09868 (14)	0.16867 (9)	0.23099 (11)	0.0505 (3)
C8	0.22237 (14)	0.15192 (9)	0.17349 (11)	0.0505 (4)
H8	0.2182	0.1777	0.1001	0.061*
C9	0.34224 (14)	0.10042 (8)	0.22297 (10)	0.0452 (3)

H9	0.3361	0.0743	0.2941	0.054*
C10	0.47889 (13)	0.07856 (8)	0.18512 (10)	0.0405 (3)
C11	0.51540 (14)	0.11331 (8)	0.08352 (10)	0.0431 (3)
C12	0.64572 (14)	0.08891 (8)	0.05099 (10)	0.0474 (3)
H12	0.6667	0.1122	-0.0175	0.057*
C13	0.74710 (13)	0.02941 (8)	0.11969 (11)	0.0460 (3)
C14	0.72008 (13)	-0.00523 (8)	0.22196 (10)	0.0457 (3)
H14	0.7900	-0.0443	0.2688	0.055*
C15	0.58727 (13)	0.01938 (8)	0.25291 (10)	0.0422 (3)
C16	0.65272 (16)	-0.07565 (10)	0.42236 (11)	0.0592 (4)
H16A	0.6572	-0.1275	0.3757	0.089*
H16B	0.6140	-0.0913	0.4898	0.089*
H16C	0.7548	-0.0509	0.4491	0.089*
C17	0.44269 (17)	0.21138 (9)	-0.08152 (12)	0.0616 (4)
H17A	0.5398	0.2424	-0.0602	0.092*
H17B	0.3610	0.2521	-0.1157	0.092*
H17C	0.4479	0.1661	-0.1383	0.092*
C18	0.97451 (18)	-0.05696 (11)	0.14022 (14)	0.0733 (5)
H18A	1.0180	-0.0392	0.2209	0.110*
H18B	1.0565	-0.0657	0.1009	0.110*
H18C	0.9181	-0.1112	0.1393	0.110*
O1	0.55255 (10)	-0.01251 (6)	0.35230 (8)	0.0566 (3)
O2	0.41252 (10)	0.17263 (6)	0.02034 (7)	0.0574 (3)
O3	0.87224 (10)	0.01005 (7)	0.08024 (8)	0.0639 (3)
O4	0.09522 (11)	0.13301 (8)	0.32405 (9)	0.0787 (4)

Atomic displacement parameters (\AA^2)

	U^{11}	U^{22}	U^{33}	U^{12}	U^{13}	U^{23}
C1	0.0473 (7)	0.0676 (9)	0.0567 (8)	-0.0009 (6)	0.0171 (6)	-0.0055 (7)
C2	0.0418 (7)	0.0773 (10)	0.0776 (10)	0.0068 (7)	0.0208 (7)	-0.0089 (8)
C3	0.0514 (8)	0.0694 (10)	0.0725 (10)	0.0144 (7)	0.0104 (7)	-0.0030 (8)
C4	0.0649 (9)	0.0683 (9)	0.0623 (9)	0.0123 (7)	0.0144 (7)	0.0046 (7)
C5	0.0487 (7)	0.0644 (9)	0.0541 (8)	0.0055 (6)	0.0166 (6)	-0.0045 (6)
C6	0.0375 (6)	0.0555 (7)	0.0446 (7)	-0.0005 (5)	0.0076 (5)	-0.0105 (6)
C7	0.0428 (7)	0.0661 (8)	0.0415 (7)	0.0028 (6)	0.0083 (5)	-0.0058 (6)
C8	0.0442 (7)	0.0645 (8)	0.0422 (7)	0.0074 (6)	0.0093 (5)	-0.0014 (6)
C9	0.0439 (7)	0.0519 (7)	0.0395 (6)	0.0012 (6)	0.0097 (5)	-0.0049 (5)
C10	0.0392 (6)	0.0437 (7)	0.0379 (6)	0.0010 (5)	0.0081 (5)	-0.0025 (5)
C11	0.0436 (7)	0.0430 (7)	0.0402 (6)	0.0021 (5)	0.0059 (5)	0.0008 (5)
C12	0.0513 (7)	0.0519 (7)	0.0413 (7)	0.0007 (6)	0.0158 (6)	0.0063 (5)
C13	0.0420 (6)	0.0506 (7)	0.0484 (7)	0.0031 (5)	0.0169 (5)	0.0025 (6)
C14	0.0428 (7)	0.0478 (7)	0.0475 (7)	0.0064 (5)	0.0131 (6)	0.0073 (5)
C15	0.0428 (7)	0.0467 (7)	0.0380 (6)	-0.0013 (5)	0.0115 (5)	0.0022 (5)
C16	0.0574 (8)	0.0705 (9)	0.0505 (8)	0.0117 (7)	0.0149 (6)	0.0197 (7)
C17	0.0695 (9)	0.0633 (9)	0.0503 (8)	0.0047 (7)	0.0117 (7)	0.0161 (6)
C18	0.0631 (9)	0.0874 (11)	0.0802 (10)	0.0323 (8)	0.0385 (8)	0.0277 (9)
O1	0.0515 (5)	0.0748 (6)	0.0479 (5)	0.0156 (5)	0.0209 (4)	0.0201 (4)

O2	0.0562 (6)	0.0661 (6)	0.0504 (5)	0.0162 (4)	0.0140 (4)	0.0177 (4)
O3	0.0564 (6)	0.0799 (7)	0.0647 (6)	0.0207 (5)	0.0328 (5)	0.0226 (5)
O4	0.0661 (7)	0.1169 (9)	0.0584 (6)	0.0289 (6)	0.0255 (5)	0.0239 (6)

Geometric parameters (Å, °)

C1—C6	1.3733 (18)	C11—C12	1.3556 (17)
C1—C2	1.3770 (19)	C12—C13	1.3797 (17)
C1—H1	0.9300	C12—H12	0.9300
C2—C3	1.365 (2)	C13—O3	1.3362 (14)
C2—H2	0.9300	C13—C14	1.3727 (17)
C3—C4	1.355 (2)	C14—C15	1.3682 (15)
C3—H3	0.9300	C14—H14	0.9300
C4—C5	1.3843 (19)	C15—O1	1.3554 (14)
C4—H4	0.9300	C16—O1	1.4172 (15)
C5—C6	1.3860 (18)	C16—H16A	0.9600
C5—H5	0.9300	C16—H16B	0.9600
C6—C7	1.4954 (18)	C16—H16C	0.9600
C7—O4	1.2153 (16)	C17—O2	1.4044 (15)
C7—C8	1.4431 (17)	C17—H17A	0.9600
C8—C9	1.3305 (17)	C17—H17B	0.9600
C8—H8	0.9300	C17—H17C	0.9600
C9—C10	1.4292 (16)	C18—O3	1.4232 (16)
C9—H9	0.9300	C18—H18A	0.9600
C10—C11	1.4014 (16)	C18—H18B	0.9600
C10—C15	1.4051 (16)	C18—H18C	0.9600
C11—O2	1.3594 (14)		
C6—C1—C2	120.67 (13)	C11—C12—C13	119.83 (11)
C6—C1—H1	119.7	C11—C12—H12	120.1
C2—C1—H1	119.7	C13—C12—H12	120.1
C3—C2—C1	120.96 (13)	O3—C13—C14	123.49 (11)
C3—C2—H2	119.5	O3—C13—C12	115.14 (11)
C1—C2—H2	119.5	C14—C13—C12	121.36 (11)
C4—C3—C2	119.55 (14)	C15—C14—C13	118.08 (11)
C4—C3—H3	120.2	C15—C14—H14	121.0
C2—C3—H3	120.2	C13—C14—H14	121.0
C3—C4—C5	119.89 (14)	O1—C15—C14	121.34 (11)
C3—C4—H4	120.1	O1—C15—C10	115.78 (10)
C5—C4—H4	120.1	C14—C15—C10	122.88 (10)
C4—C5—C6	121.29 (12)	O1—C16—H16A	109.5
C4—C5—H5	119.4	O1—C16—H16B	109.5
C6—C5—H5	119.4	H16A—C16—H16B	109.5
C1—C6—C5	117.61 (12)	O1—C16—H16C	109.5
C1—C6—C7	118.63 (12)	H16A—C16—H16C	109.5
C5—C6—C7	123.73 (11)	H16B—C16—H16C	109.5
O4—C7—C8	121.57 (12)	O2—C17—H17A	109.5
O4—C7—C6	119.54 (12)	O2—C17—H17B	109.5

C8—C7—C6	118.80 (11)	H17A—C17—H17B	109.5
C9—C8—C7	121.57 (12)	O2—C17—H17C	109.5
C9—C8—H8	119.2	H17A—C17—H17C	109.5
C7—C8—H8	119.2	H17B—C17—H17C	109.5
C8—C9—C10	130.82 (12)	O3—C18—H18A	109.5
C8—C9—H9	114.6	O3—C18—H18B	109.5
C10—C9—H9	114.6	H18A—C18—H18B	109.5
C11—C10—C15	116.18 (10)	O3—C18—H18C	109.5
C11—C10—C9	124.32 (11)	H18A—C18—H18C	109.5
C15—C10—C9	119.49 (10)	H18B—C18—H18C	109.5
O2—C11—C12	122.44 (11)	C15—O1—C16	119.06 (9)
O2—C11—C10	115.92 (10)	C11—O2—C17	119.14 (10)
C12—C11—C10	121.64 (11)	C13—O3—C18	118.25 (10)

Article retracted