

Acta Crystallographica Section E

Structure Reports

Online

ISSN 1600-5368

Methyl 2-[[2-furyl(3-methyl-5-oxo-1-phenyl-4,5-dihydro-1H-pyrazol-4-ylidene)methyl]amino]acetate

Xiao Han,* Xiao-Dong Yang and Xiao-Chang Dai

School of Chemical Science and Technology, Yunnan University, Kunming 65009, People's Republic of China

Correspondence e-mail: blackcrossing630@vip.sina.com

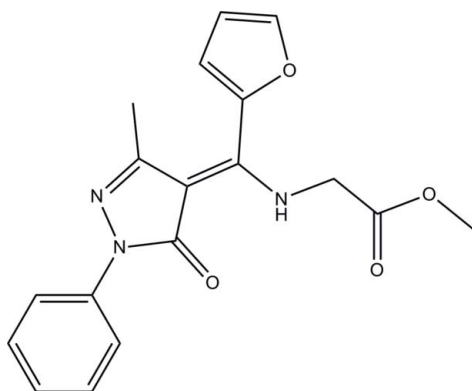
Received 19 June 2011; accepted 1 July 2011

Key indicators: single-crystal X-ray study; $T = 295$ K; mean $\sigma(\text{C}-\text{C}) = 0.004$ Å; R factor = 0.051; wR factor = 0.150; data-to-parameter ratio = 12.5.

In the title compound, $\text{C}_{18}\text{H}_{17}\text{N}_3\text{O}_4$, the amino group of the glycine methyl ester fragment is involved in an intramolecular $\text{N}-\text{H}\cdots\text{O}$ hydrogen bond. The phenyl and furyl rings form dihedral angles of 10.20 (4) and 54.56° , respectively, with the pyrazole ring. In the crystal, molecules related by translation along the b axis are linked into chains *via* weak intermolecular $\text{C}-\text{H}\cdots\text{O}$ hydrogen bonds.

Related literature

For a related structure, see: Zhang *et al.* (2007). For details of the synthesis, see: Jensen (1959). For applications of pyrazolone derivatives in coordination chemistry, see: Casas *et al.* (2007). For the antibacterial activity of pyrazolone derivatives, see: Li *et al.* (2000); Zhang *et al.* (2008).



Experimental

Crystal data

$\text{C}_{18}\text{H}_{17}\text{N}_3\text{O}_4$
 $M_r = 339.35$
 Triclinic, $P\bar{1}$
 $a = 7.499$ (4) Å
 $b = 9.503$ (5) Å
 $c = 11.749$ (6) Å
 $\alpha = 96.712$ (7)°
 $\beta = 91.654$ (8)°
 $\gamma = 90.337$ (7)°
 $V = 831.2$ (7) Å³
 $Z = 2$
 Mo $K\alpha$ radiation
 $\mu = 0.10$ mm⁻¹
 $T = 295$ K
 $0.48 \times 0.14 \times 0.08$ mm

Data collection

Bruker APEXII CCD diffractometer
 6492 measured reflections
 2915 independent reflections
 1805 reflections with $I > 2\sigma(I)$
 $R_{\text{int}} = 0.034$

Refinement

$R[F^2 > 2\sigma(F^2)] = 0.051$
 $wR(F^2) = 0.150$
 $S = 1.01$
 29015 reflections
 232 parameters
 H atoms treated by a mixture of independent and constrained refinement
 $\Delta\rho_{\text{max}} = 0.17$ e Å⁻³
 $\Delta\rho_{\text{min}} = -0.21$ e Å⁻³

Table 1

Hydrogen-bond geometry (Å, °).

$D-\text{H}\cdots A$	$D-\text{H}$	$\text{H}\cdots A$	$D\cdots A$	$D-\text{H}\cdots A$
$\text{N3}-\text{H3A}\cdots\text{O1}$	0.97 (3)	1.89 (3)	2.704 (3)	140 (2)
$\text{C14}-\text{H14}\cdots\text{O1}^i$	0.93	2.48	3.386 (4)	164

Symmetry code: (i) $x, y - 1, z$.

Data collection: APEX2 (Bruker, 2005); cell refinement: SAINT-Plus (Bruker, 2005); data reduction: SAINT-Plus; 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.

The authors gratefully acknowledge financial support from the study on structure–activity relationships of helicid analogues.

Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: CV5123).

References

- Bruker (2005). APEX2 and SAINT-Plus. Bruker AXS Inc., Madison, Wisconsin, USA.
 Casas, J. S., García-Tasende, M. S., Sanchez, A., Sordo, J. & Touceda, Á. (2007). *Coord. Chem. Rev.* **251**, 1561–1589.
 Jensen, B. S. (1959). *Acta Chem. Scand.* **13**, 1668–1670.
 Li, J.-Z., Li, G. & Yu, W.-J. (2000). *J. Rare Earth*, **18**, 233–236.
 Sheldrick, G. M. (2008). *Acta Cryst.* **A64**, 112–122.
 Zhang, H.-Q., Li, J.-Z., Zhang, Y. & Zhang, D. (2008). *Chin. J. Inorg. Chem.* **24**, 990–993.
 Zhang, H.-Q., Li, J.-Z., Zhang, Y., Zhang, D. & Su, Z.-H. (2007). *Acta Cryst.* **E63**, o3536.

supporting information

Acta Cryst. (2011). E67, o1936 [doi:10.1107/S1600536811026158]

Methyl 2-[(2-furyl)(3-methyl-5-oxo-1-phenyl-4,5-dihydro-1*H*-pyrazol-4-ylidene)methyl]amino}acetate

Xiao Han, Xiao-Dong Yang and Xiao-Chang Dai

S1. Comment

Pyrazolones constitute an important class of heterocycles due to their properties and applications (Casas *et al.*, 2007). Schiff bases derived from 1-phenyl-3-methyl-4-(2-furoyl)-5-pyrazolone (PMFP) have found extensive application in coordination chemistry and due to their antibacterial activity (Zhang *et al.*, 2007, 2008; Li *et al.*, 2000). In order to expand this field, we present here the title compound (I).

In (I) (Fig. 1), the phenyl ring (C1-C6) is twisted at 10.20 (4)° from the mean plane of pyrazole ring. The pyrazole ring and the O1/C10/C9/C11/N3 mean form a dihedral angle of 5.62 (4)°. The bond length of C9—C11(1.390 (3) Å) between the usual C—C and C=C bonds indicates the delocalization of the electrons. Strong intramolecular hydrogen bond N3—H3A···O1(Table 1) is indicative of the enamine-keto form.

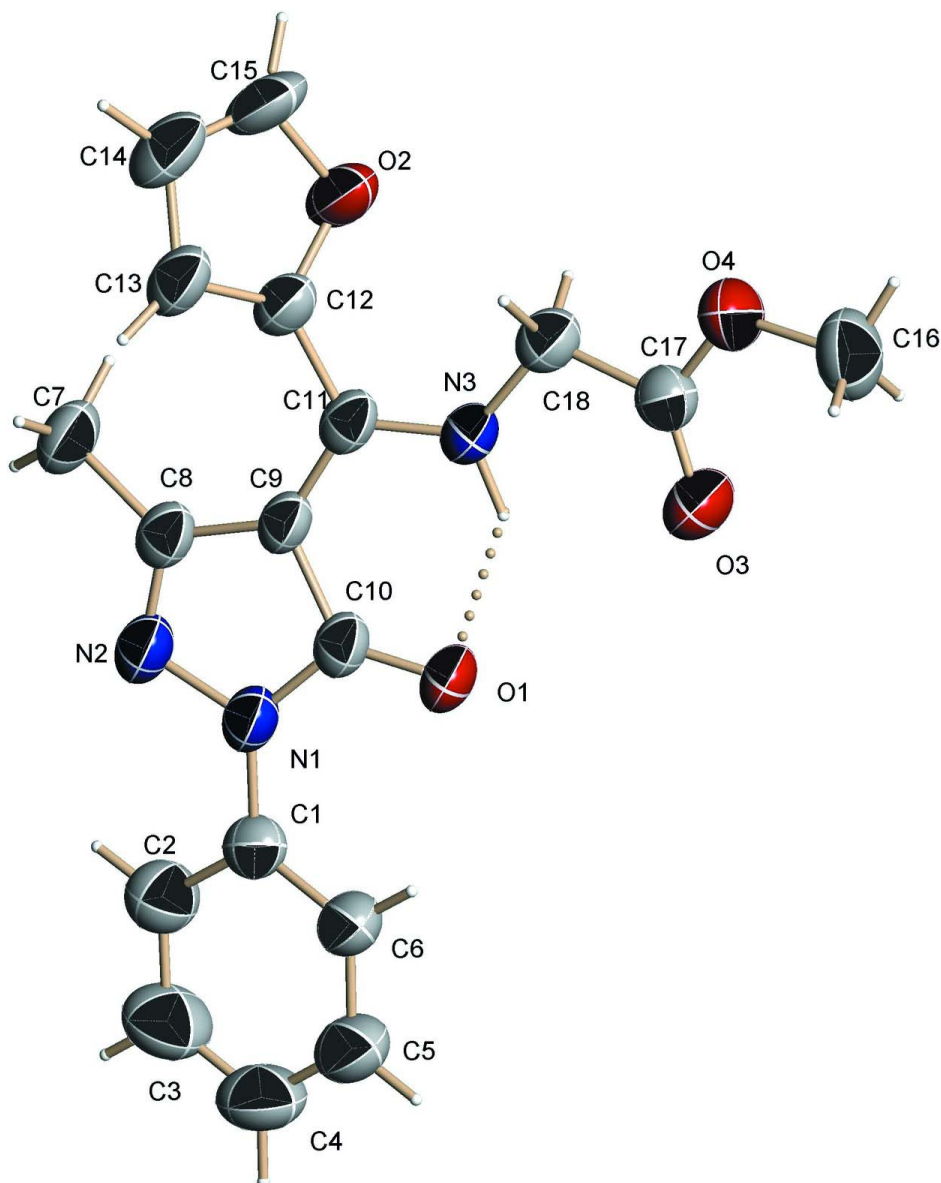
In the crystal structure, molecules related by translation along axis *b* are linked into chains *via* weak intermolecular C—H···O hydrogen bonds.

S2. Experimental

PMFP was synthesized according to the method proposed by Jensen (1959). A mixture of a 10 ml PMFP (2 mmol, 0.5366 g) anhydrous ethanol solution, and 10 ml Glycine methyl ester hydrochloride anhydrous ethanol solution (2 mmol, 0.2511 g)solution was refluxed for *ca.*7 h, adding a few drops of glacial acetic acid as a catalyst. Then ethanol was removed by evaporation and the resulting black precipitate formed was filtered off, washed with cold anhydrous ethanol and dried in air. Black block single crystals suitable for analysis were obtained by slowly evaporation of a solution in anhydrous ethanol at room temperature for a few days.

S3. Refinement

H atoms bonded to N3 was located in a difference map and isotropically refined. Other H atoms were placed in calculated positions [C—H 0.93-0.97 Å], and refined as riding, with $U_{\text{iso}}(\text{H})=1.2-1.5 U_{\text{eq}}(\text{C})$.

**Figure 1**

The molecular structure of (I) showing the atomic numbering and 30% probability displacement ellipsoids. Dotted line indicates hydrogen bond.

Methyl 2-[[2-furyl(3-methyl-5-oxo-1-phenyl-4,5-dihydro-1H-pyrazol-4-ylidene)methyl]amino]acetate

Crystal data

$C_{18}H_{17}N_3O_4$

$M_r = 339.35$

Triclinic, $P\bar{1}$

Hall symbol: -P 1

$a = 7.499$ (4) Å

$b = 9.503$ (5) Å

$c = 11.749$ (6) Å

$\alpha = 96.712$ (7)°

$\beta = 91.654$ (8)°

$\gamma = 90.337$ (7)°

$V = 831.2$ (7) Å³

$Z = 2$

$F(000) = 356$

$D_x = 1.356$ Mg m⁻³

Mo $K\alpha$ radiation, $\lambda = 0.71073$ Å

Cell parameters from 1502 reflections

$\theta = 2.9$ – 22.6 °

$\mu = 0.10$ mm⁻¹

$T = 295$ K
Block, black

$0.48 \times 0.14 \times 0.08$ mm

Data collection

Bruker APEXII CCD
diffractometer
Radiation source: fine-focus sealed tube
Graphite monochromator
 ϕ and ω scans
6492 measured reflections
2915 independent reflections

1805 reflections with $I > 2\sigma(I)$
 $R_{\text{int}} = 0.034$
 $\theta_{\text{max}} = 25.0^\circ$, $\theta_{\text{min}} = 2.6^\circ$
 $h = -8 \rightarrow 8$
 $k = -11 \rightarrow 11$
 $l = -13 \rightarrow 13$

Refinement

Refinement on F^2
Least-squares matrix: full
 $R[F^2 > 2\sigma(F^2)] = 0.051$
 $wR(F^2) = 0.150$
 $S = 1.01$
2915 reflections
232 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 atoms treated by a mixture of independent
and constrained refinement
 $w = 1/[\sigma^2(F_o^2) + (0.0826P)^2]$
where $P = (F_o^2 + 2F_c^2)/3$
 $(\Delta/\sigma)_{\text{max}} < 0.001$
 $\Delta\rho_{\text{max}} = 0.17 \text{ e } \text{\AA}^{-3}$
 $\Delta\rho_{\text{min}} = -0.21 \text{ e } \text{\AA}^{-3}$

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)

	x	y	z	$U_{\text{iso}}^*/U_{\text{eq}}$
C1	0.2043 (3)	0.1986 (3)	0.7105 (2)	0.0509 (6)
C2	0.1118 (4)	0.1820 (3)	0.6063 (3)	0.0697 (8)
H2	0.0454	0.1000	0.5838	0.084*
C3	0.1192 (5)	0.2881 (4)	0.5362 (3)	0.0888 (10)
H3	0.0555	0.2778	0.4666	0.107*
C4	0.2192 (5)	0.4093 (4)	0.5672 (3)	0.0848 (10)
H4	0.2235	0.4799	0.5188	0.102*
C5	0.3120 (4)	0.4247 (3)	0.6696 (3)	0.0725 (8)
H5	0.3797	0.5064	0.6909	0.087*
C6	0.3064 (4)	0.3203 (3)	0.7418 (2)	0.0599 (7)
H6	0.3707	0.3313	0.8112	0.072*
C7	0.0294 (4)	-0.2611 (3)	0.8061 (2)	0.0648 (8)
H7A	-0.0553	-0.2639	0.7430	0.097*
H7B	-0.0311	-0.2784	0.8741	0.097*

H7C	0.1178	-0.3325	0.7892	0.097*
C8	0.1184 (3)	-0.1175 (2)	0.8250 (2)	0.0493 (6)
C9	0.2063 (3)	-0.0467 (2)	0.9256 (2)	0.0446 (6)
C10	0.2473 (3)	0.0934 (2)	0.8965 (2)	0.0464 (6)
C11	0.2438 (3)	-0.0855 (2)	1.0341 (2)	0.0461 (6)
C12	0.2315 (3)	-0.2330 (2)	1.0582 (2)	0.0507 (6)
C13	0.2946 (3)	-0.3534 (2)	1.0035 (2)	0.0605 (7)
H13	0.3546	-0.3628	0.9349	0.073*
C14	0.2530 (4)	-0.4631 (3)	1.0695 (3)	0.0741 (9)
H14	0.2804	-0.5585	1.0534	0.089*
C15	0.1673 (4)	-0.4029 (3)	1.1587 (3)	0.0827 (10)
H15	0.1234	-0.4516	1.2163	0.099*
C16	0.6100 (4)	0.1991 (3)	1.4644 (3)	0.0859 (10)
H16A	0.7236	0.2106	1.4309	0.129*
H16B	0.6277	0.1728	1.5403	0.129*
H16C	0.5461	0.2867	1.4681	0.129*
C17	0.4484 (3)	0.1167 (3)	1.2930 (2)	0.0533 (6)
C18	0.3474 (3)	-0.0089 (2)	1.2339 (2)	0.0538 (7)
H18A	0.4205	-0.0928	1.2334	0.065*
H18B	0.2405	-0.0242	1.2756	0.065*
H3A	0.309 (3)	0.107 (3)	1.094 (2)	0.065 (8)*
N1	0.1955 (2)	0.09022 (19)	0.78289 (18)	0.0501 (5)
N2	0.1101 (3)	-0.0388 (2)	0.74126 (18)	0.0540 (6)
N3	0.2991 (3)	0.0135 (2)	1.11800 (17)	0.0498 (5)
O1	0.3157 (2)	0.19626 (16)	0.95855 (14)	0.0587 (5)
O2	0.1511 (3)	-0.26029 (18)	1.15579 (17)	0.0717 (6)
O3	0.4695 (3)	0.22735 (19)	1.25441 (17)	0.0740 (6)
O4	0.5077 (2)	0.08888 (19)	1.39454 (17)	0.0684 (5)

Atomic displacement parameters (Å²)

	U^{11}	U^{22}	U^{33}	U^{12}	U^{13}	U^{23}
C1	0.0540 (14)	0.0451 (14)	0.0541 (16)	0.0075 (11)	0.0107 (12)	0.0048 (12)
C2	0.0727 (18)	0.0695 (19)	0.067 (2)	-0.0029 (15)	-0.0007 (16)	0.0103 (16)
C3	0.099 (2)	0.098 (3)	0.073 (2)	0.001 (2)	-0.0079 (19)	0.029 (2)
C4	0.103 (2)	0.071 (2)	0.086 (3)	0.0040 (19)	0.010 (2)	0.0325 (19)
C5	0.090 (2)	0.0497 (17)	0.079 (2)	0.0030 (15)	0.0129 (18)	0.0110 (15)
C6	0.0764 (18)	0.0431 (15)	0.0602 (17)	0.0008 (13)	0.0075 (14)	0.0051 (13)
C7	0.0724 (17)	0.0433 (15)	0.0753 (19)	-0.0130 (13)	0.0006 (15)	-0.0057 (13)
C8	0.0486 (14)	0.0396 (13)	0.0582 (16)	0.0015 (11)	0.0102 (12)	-0.0031 (13)
C9	0.0488 (13)	0.0317 (12)	0.0516 (15)	0.0004 (10)	0.0073 (11)	-0.0037 (11)
C10	0.0476 (13)	0.0376 (13)	0.0523 (16)	0.0022 (10)	0.0064 (11)	-0.0037 (11)
C11	0.0430 (13)	0.0352 (13)	0.0589 (16)	0.0015 (10)	0.0111 (11)	-0.0029 (12)
C12	0.0510 (14)	0.0375 (13)	0.0633 (16)	-0.0027 (11)	0.0126 (12)	0.0017 (11)
C13	0.0667 (16)	0.0362 (14)	0.0769 (18)	0.0007 (12)	0.0145 (14)	-0.0040 (13)
C14	0.080 (2)	0.0348 (15)	0.107 (2)	0.0035 (13)	0.0123 (18)	0.0032 (15)
C15	0.107 (2)	0.0366 (16)	0.107 (3)	-0.0150 (15)	0.020 (2)	0.0167 (16)
C16	0.093 (2)	0.090 (2)	0.068 (2)	-0.0136 (19)	-0.0048 (17)	-0.0150 (18)

C17	0.0572 (15)	0.0503 (16)	0.0520 (17)	0.0034 (12)	0.0090 (13)	0.0026 (13)
C18	0.0562 (15)	0.0431 (14)	0.0618 (18)	-0.0002 (11)	0.0050 (13)	0.0046 (12)
N1	0.0560 (12)	0.0388 (11)	0.0533 (13)	-0.0014 (9)	0.0035 (10)	-0.0036 (10)
N2	0.0573 (13)	0.0410 (12)	0.0612 (14)	-0.0026 (9)	0.0054 (10)	-0.0052 (11)
N3	0.0633 (13)	0.0348 (11)	0.0507 (13)	0.0006 (9)	0.0020 (10)	0.0025 (10)
O1	0.0786 (12)	0.0353 (9)	0.0598 (11)	-0.0064 (8)	-0.0016 (9)	-0.0035 (8)
O2	0.0906 (13)	0.0409 (10)	0.0846 (14)	-0.0075 (9)	0.0310 (11)	0.0049 (9)
O3	0.0962 (14)	0.0482 (12)	0.0768 (14)	-0.0107 (10)	-0.0018 (11)	0.0063 (10)
O4	0.0828 (13)	0.0657 (13)	0.0548 (12)	-0.0119 (10)	-0.0029 (10)	0.0016 (10)

Geometric parameters (Å, °)

C1—C2	1.382 (4)	C11—N3	1.335 (3)
C1—C6	1.390 (4)	C11—C12	1.464 (3)
C1—N1	1.412 (3)	C12—C13	1.341 (3)
C2—C3	1.377 (4)	C12—O2	1.361 (3)
C2—H2	0.9300	C13—C14	1.408 (4)
C3—C4	1.377 (5)	C13—H13	0.9300
C3—H3	0.9300	C14—C15	1.320 (4)
C4—C5	1.365 (4)	C14—H14	0.9300
C4—H4	0.9300	C15—O2	1.366 (3)
C5—C6	1.380 (4)	C15—H15	0.9300
C5—H5	0.9300	C16—O4	1.453 (3)
C6—H6	0.9300	C16—H16A	0.9600
C7—C8	1.505 (3)	C16—H16B	0.9600
C7—H7A	0.9600	C16—H16C	0.9600
C7—H7B	0.9600	C17—O3	1.204 (3)
C7—H7C	0.9600	C17—O4	1.317 (3)
C8—N2	1.303 (3)	C17—C18	1.498 (4)
C8—C9	1.431 (3)	C18—N3	1.440 (3)
C9—C11	1.390 (3)	C18—H18A	0.9700
C9—C10	1.446 (3)	C18—H18B	0.9700
C10—O1	1.247 (3)	N1—N2	1.409 (3)
C10—N1	1.377 (3)	N3—H3A	0.97 (3)
C2—C1—C6	119.7 (2)	C13—C12—O2	109.9 (2)
C2—C1—N1	119.3 (2)	C13—C12—C11	131.8 (2)
C6—C1—N1	121.1 (2)	O2—C12—C11	118.2 (2)
C3—C2—C1	119.3 (3)	C12—C13—C14	107.2 (2)
C3—C2—H2	120.4	C12—C13—H13	126.4
C1—C2—H2	120.4	C14—C13—H13	126.4
C2—C3—C4	121.2 (3)	C15—C14—C13	106.1 (2)
C2—C3—H3	119.4	C15—C14—H14	127.0
C4—C3—H3	119.4	C13—C14—H14	127.0
C5—C4—C3	119.4 (3)	C14—C15—O2	111.5 (3)
C5—C4—H4	120.3	C14—C15—H15	124.2
C3—C4—H4	120.3	O2—C15—H15	124.2
C4—C5—C6	120.6 (3)	O4—C16—H16A	109.5

C4—C5—H5	119.7	O4—C16—H16B	109.5
C6—C5—H5	119.7	H16A—C16—H16B	109.5
C5—C6—C1	119.8 (3)	O4—C16—H16C	109.5
C5—C6—H6	120.1	H16A—C16—H16C	109.5
C1—C6—H6	120.1	H16B—C16—H16C	109.5
C8—C7—H7A	109.5	O3—C17—O4	125.1 (3)
C8—C7—H7B	109.5	O3—C17—C18	125.1 (3)
H7A—C7—H7B	109.5	O4—C17—C18	109.8 (2)
C8—C7—H7C	109.5	N3—C18—C17	110.5 (2)
H7A—C7—H7C	109.5	N3—C18—H18A	109.6
H7B—C7—H7C	109.5	C17—C18—H18A	109.6
N2—C8—C9	112.3 (2)	N3—C18—H18B	109.6
N2—C8—C7	117.8 (2)	C17—C18—H18B	109.6
C9—C8—C7	129.8 (2)	H18A—C18—H18B	108.1
C11—C9—C8	133.2 (2)	C10—N1—N2	111.56 (19)
C11—C9—C10	121.9 (2)	C10—N1—C1	129.3 (2)
C8—C9—C10	104.8 (2)	N2—N1—C1	118.9 (2)
O1—C10—N1	126.3 (2)	C8—N2—N1	106.2 (2)
O1—C10—C9	128.8 (2)	C11—N3—C18	126.3 (2)
N1—C10—C9	104.9 (2)	C11—N3—H3A	113.8 (15)
N3—C11—C9	119.2 (2)	C18—N3—H3A	119.8 (15)
N3—C11—C12	118.9 (2)	C12—O2—C15	105.4 (2)
C9—C11—C12	121.9 (2)	C17—O4—C16	117.5 (2)
C6—C1—C2—C3	-1.5 (4)	C11—C12—C13—C14	176.1 (3)
N1—C1—C2—C3	179.4 (2)	C12—C13—C14—C15	0.4 (3)
C1—C2—C3—C4	1.1 (5)	C13—C14—C15—O2	-0.4 (4)
C2—C3—C4—C5	-0.4 (5)	O3—C17—C18—N3	7.8 (4)
C3—C4—C5—C6	0.0 (5)	O4—C17—C18—N3	-173.49 (19)
C4—C5—C6—C1	-0.5 (4)	O1—C10—N1—N2	-175.3 (2)
C2—C1—C6—C5	1.2 (4)	C9—C10—N1—N2	5.2 (2)
N1—C1—C6—C5	-179.7 (2)	O1—C10—N1—C1	-0.7 (4)
N2—C8—C9—C11	178.9 (2)	C9—C10—N1—C1	179.8 (2)
C7—C8—C9—C11	2.6 (4)	C2—C1—N1—C10	-166.8 (2)
N2—C8—C9—C10	2.5 (3)	C6—C1—N1—C10	14.1 (4)
C7—C8—C9—C10	-173.8 (2)	C2—C1—N1—N2	7.4 (3)
C11—C9—C10—O1	-0.9 (4)	C6—C1—N1—N2	-171.6 (2)
C8—C9—C10—O1	175.9 (2)	C9—C8—N2—N1	0.6 (2)
C11—C9—C10—N1	178.59 (19)	C7—C8—N2—N1	177.36 (19)
C8—C9—C10—N1	-4.5 (2)	C10—N1—N2—C8	-3.7 (2)
C8—C9—C11—N3	-167.5 (2)	C1—N1—N2—C8	-178.93 (18)
C10—C9—C11—N3	8.3 (3)	C9—C11—N3—C18	-178.5 (2)
C8—C9—C11—C12	15.0 (4)	C12—C11—N3—C18	-0.9 (3)
C10—C9—C11—C12	-169.2 (2)	C17—C18—N3—C11	164.5 (2)
N3—C11—C12—C13	-129.3 (3)	C13—C12—O2—C15	-0.1 (3)
C9—C11—C12—C13	48.2 (4)	C11—C12—O2—C15	-176.9 (2)
N3—C11—C12—O2	46.7 (3)	C14—C15—O2—C12	0.3 (3)
C9—C11—C12—O2	-135.8 (2)	O3—C17—O4—C16	-1.5 (4)

O2—C12—C13—C14	-0.2 (3)	C18—C17—O4—C16	179.8 (2)
----------------	----------	----------------	-----------

Hydrogen-bond geometry (Å, °)

<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>
N3—H3A \cdots O1	0.97 (3)	1.89 (3)	2.704 (3)	140 (2)
C14—H14 \cdots O1 ⁱ	0.93	2.48	3.386 (4)	164

Symmetry code: (i) $x, y-1, z$.