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## Structure Reports

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## 3-[2-Hydroxy-3-(2,4,6-trimethylphenyl)propyl]-3-methyl-1-phenylthiourea

 Abel M. Maharramov,<sup>a</sup> Ali N. Khalilov,<sup>a</sup> Nurlana D. Sadikhova,<sup>a</sup> Atash V. Gurbanov<sup>a</sup> and Seik Weng Ng<sup>b\*</sup>
<sup>a</sup>Department of Organic Chemistry, Baku State University, Baku, Azerbaijan, and

<sup>b</sup>Department of Chemistry, University of Malaya, 50603 Kuala Lumpur, Malaysia

Correspondence e-mail: seikweng@um.edu.my

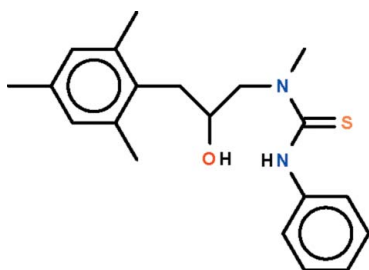
Received 29 March 2011; accepted 6 April 2011

 Key indicators: single-crystal X-ray study;  $T = 100$  K; mean  $\sigma(\text{C}-\text{C}) = 0.002$  Å;  $R$  factor = 0.039;  $wR$  factor = 0.112; data-to-parameter ratio = 18.2.

In the title compound,  $\text{C}_{20}\text{H}_{26}\text{N}_2\text{OS}$ , four non-H atoms of the thiourea unit are approximately planar (r.m.s. deviation = 0.005 Å); the phenyl and benzene rings are twisted out of this plane by 28.55 (7) and 60.00 (7)°, respectively. An intramolecular  $\text{N}-\text{H}\cdots\text{O}$  hydrogen bond occurs. The hydroxy group is hydrogen bonded to the double-bond S atom of an inversion-related molecule, generating a hydrogen-bonded dimer in the crystal structure.

### Related literature

The title compound was prepared by a reaction of 1-methylamino-3-(2,4,6-trimethylphenyl)propan-2-ol and phenyl isothiocyanate; for the structure of the reactant 1-methylamino-3-(2,4,6-trimethylphenyl)propan-2-ol, see: Maharramov *et al.* (2011).



### Experimental

#### Crystal data

$\text{C}_{20}\text{H}_{26}\text{N}_2\text{OS}$	$V = 1855.6$ (2) Å <sup>3</sup>
$M_r = 342.49$	$Z = 4$
Monoclinic, $P2_1/c$	Mo $K\alpha$ radiation
$a = 14.6313$ (11) Å	$\mu = 0.18$ mm <sup>-1</sup>
$b = 8.1579$ (6) Å	$T = 100$ K
$c = 16.4455$ (12) Å	$0.30 \times 0.20 \times 0.20$ mm
$\beta = 109.040$ (1)°	

#### Data collection

Bruker SMART APEX diffractometer	10052 measured reflections
Absorption correction: multi-scan (SADABS; Sheldrick, 1996)	4160 independent reflections
$T_{\min} = 0.947$ , $T_{\max} = 0.964$	3542 reflections with $I > 2\sigma(I)$
	$R_{\text{int}} = 0.028$

#### Refinement

$R[F^2 > 2\sigma(F^2)] = 0.039$	H atoms treated by a mixture of independent and constrained refinement
$wR(F^2) = 0.112$	
$S = 1.04$	$\Delta\rho_{\text{max}} = 0.38$ e Å <sup>-3</sup>
4160 reflections	$\Delta\rho_{\text{min}} = -0.24$ e Å <sup>-3</sup>
229 parameters	
2 restraints	

**Table 1**

Hydrogen-bond geometry (Å, °).

$D-\text{H}\cdots A$	$D-\text{H}$	$\text{H}\cdots A$	$D\cdots A$	$D-\text{H}\cdots A$
$\text{O1}-\text{H1}\cdots\text{S1}^i$	0.83 (1)	2.50 (1)	3.219 (1)	146 (2)
$\text{N2}-\text{H2}\cdots\text{O1}$	0.88 (1)	1.89 (1)	2.739 (2)	165 (2)

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

Data collection: *APEX2* (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: *X-SEED* (Barbour, 2001); software used to prepare material for publication: *pubCIF* (Westrip, 2010).

We thank Baku State University and the University of Malaya for supporting this study.

Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: XU5185).

### References

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## supporting information

*Acta Cryst.* (2011). E67, o1087 [doi:10.1107/S1600536811012736]

**3-[2-Hydroxy-3-(2,4,6-trimethylphenyl)propyl]-3-methyl-1-phenylthiourea**

Abel M. Maharramov, Ali N. Khalilov, Nurlana D. Sadikhova, Atash V. Gurbanov and Seik Weng Ng

**S1. Comment**

We have recently reported the synthesis and crystal structure of 1-methylamino-3-(2,4,6-trimethylphenyl)propan-2-ol (Maharramov *et al.*, 2011). This secondary amine behaves like a conventional secondary amine in its reaction with phenyl isothiocyanate to furnish a thiourea (Scheme I). The four-atoms N–C(=S)–N unit of C<sub>20</sub>H<sub>26</sub>N<sub>2</sub>OS is planar [r.m.s. deviation 0.005 Å]; the phenyl ring connected to one of the two flanking N atoms is twisted out of this plane 28.6 (1)<sup>o</sup> (Fig. 1). The propyl chain connected to the other N atom bears a hydroxy substituent; this serves as hydrogen-bond donor acceptor to the double-bond S atom of an inversion-related molecule to generate a hydrogen-bonded dimer.

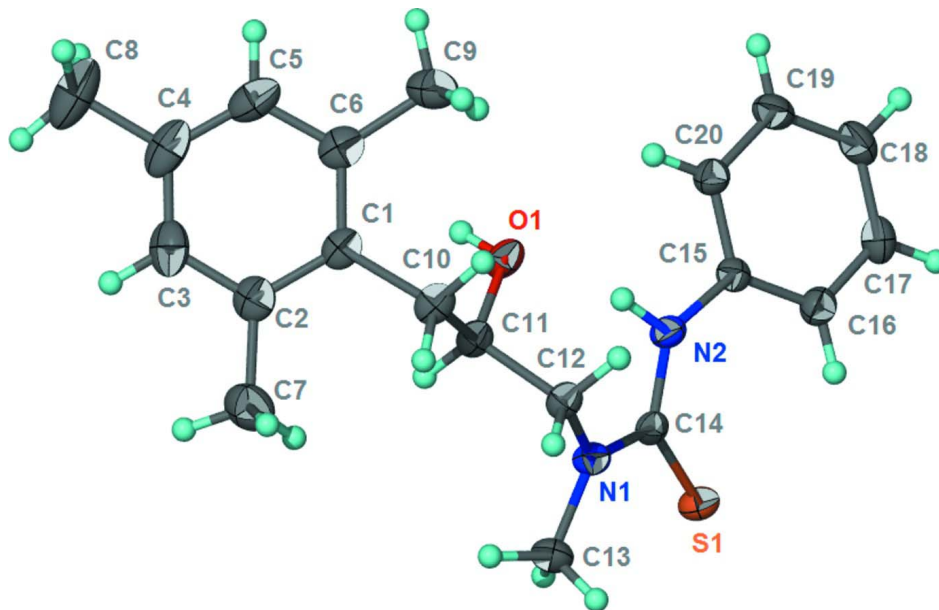
**S2. Experimental**

1-Methylamino-3-(2,4,6-trimethylphenyl)propan-2-ol was synthesized as reported (Maharramov *et al.*, 2011). The compound (10 mmol) and phenyl isothiocyanate (10 mmol) were heated in benzene (50 mol) for 10 h. The solvent was removed and the product recrystallized from ethanol to yield colorless crystals, m.p. 413–414 K; yield 90%.

**S3. Refinement**

Carbon-bound H-atoms were placed in calculated positions [C–H 0.95 to 1.00 Å; *U*(H) 1.2 to 1.5*U*(C)] and were included in the refinement in the riding model approximation.

The hydroxy and amino H-atoms were located in a difference Fourier map, and were refined with distance restraints of O–H 0.84±0.01 and N–H 0.88±0.01 Å; their temperature factors were refined.

**Figure 1**

Thermal ellipsoid plot (Barbour, 2001) of  $C_{20}H_{26}N_2OS$  at the 70% probability level; hydrogen atoms are drawn as spheres of arbitrary radius.

### 3-[2-Hydroxy-3-(2,4,6-trimethylphenyl)propyl]-3-methyl-1-phenylthiourea

#### Crystal data

$C_{20}H_{26}N_2OS$

$M_r = 342.49$

Monoclinic,  $P2_1/c$

Hall symbol:  $-P\ 2ybc$

$a = 14.6313\ (11)\ \text{\AA}$

$b = 8.1579\ (6)\ \text{\AA}$

$c = 16.4455\ (12)\ \text{\AA}$

$\beta = 109.040\ (1)^\circ$

$V = 1855.6\ (2)\ \text{\AA}^3$

$Z = 4$

$F(000) = 736$

$D_x = 1.226\ \text{Mg m}^{-3}$

Mo  $K\alpha$  radiation,  $\lambda = 0.71073\ \text{\AA}$

Cell parameters from 4968 reflections

$\theta = 2.6\text{--}29.2^\circ$

$\mu = 0.18\ \text{mm}^{-1}$

$T = 100\ \text{K}$

Prism, colorless

$0.30 \times 0.20 \times 0.20\ \text{mm}$

#### Data collection

Bruker SMART APEX

diffractometer

Radiation source: fine-focus sealed tube

Graphite monochromator

$\varphi$  and  $\omega$  scans

Absorption correction: multi-scan

(*SADABS*; Sheldrick, 1996)

$T_{\min} = 0.947$ ,  $T_{\max} = 0.964$

10052 measured reflections

4160 independent reflections

3542 reflections with  $I > 2\sigma(I)$

$R_{\text{int}} = 0.028$

$\theta_{\max} = 27.5^\circ$ ,  $\theta_{\min} = 2.6^\circ$

$h = -18 \rightarrow 18$

$k = -10 \rightarrow 10$

$l = -20 \rightarrow 20$

#### Refinement

Refinement on  $F^2$

Least-squares matrix: full

$R[F^2 > 2\sigma(F^2)] = 0.039$

$wR(F^2) = 0.112$

$S = 1.04$

4160 reflections

229 parameters

2 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

$$w = 1/[\sigma^2(F_o^2) + (0.0617P)^2 + 0.4837P]$$

where  $P = (F_o^2 + 2F_c^2)/3$   
 $(\Delta/\sigma)_{\max} = 0.001$   
 $\Delta\rho_{\max} = 0.38 \text{ e } \text{\AA}^{-3}$   
 $\Delta\rho_{\min} = -0.24 \text{ e } \text{\AA}^{-3}$

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

	<i>x</i>	<i>y</i>	<i>z</i>	$U_{\text{iso}}^*/U_{\text{eq}}$
S1	0.35275 (3)	0.49063 (4)	0.61941 (2)	0.02172 (11)
O1	0.61082 (7)	0.26588 (12)	0.52099 (7)	0.0223 (2)
H1	0.6434 (13)	0.330 (2)	0.5027 (12)	0.041 (6)*
N1	0.51088 (8)	0.30365 (14)	0.65553 (7)	0.0197 (3)
N2	0.42327 (8)	0.31882 (14)	0.51317 (8)	0.0196 (2)
H2	0.4785 (9)	0.292 (2)	0.5069 (12)	0.032 (5)*
C1	0.81508 (10)	0.13935 (16)	0.59751 (10)	0.0216 (3)
C2	0.89199 (11)	0.21843 (18)	0.65953 (10)	0.0260 (3)
C3	0.97052 (11)	0.2735 (2)	0.63719 (12)	0.0320 (4)
H3	1.0215	0.3293	0.6790	0.038*
C4	0.97654 (12)	0.2495 (2)	0.55560 (12)	0.0340 (4)
C5	0.90094 (12)	0.1692 (2)	0.49568 (11)	0.0319 (4)
H5	0.9043	0.1508	0.4397	0.038*
C6	0.82014 (11)	0.11434 (18)	0.51461 (10)	0.0254 (3)
C7	0.89290 (13)	0.2418 (2)	0.75097 (11)	0.0364 (4)
H7A	0.9484	0.3098	0.7824	0.055*
H7B	0.8979	0.1348	0.7792	0.055*
H7C	0.8330	0.2961	0.7506	0.055*
C8	1.06343 (14)	0.3063 (2)	0.53256 (16)	0.0496 (5)
H8A	1.0423	0.3813	0.4834	0.074*
H8B	1.0956	0.2112	0.5174	0.074*
H8C	1.1087	0.3630	0.5819	0.074*
C9	0.74118 (12)	0.0268 (2)	0.44548 (11)	0.0327 (4)
H9A	0.7578	0.0233	0.3924	0.049*
H9B	0.6800	0.0856	0.4348	0.049*
H9C	0.7345	-0.0852	0.4643	0.049*
C10	0.72773 (10)	0.08517 (17)	0.62059 (10)	0.0223 (3)
H10A	0.7491	0.0465	0.6810	0.027*
H10B	0.6964	-0.0080	0.5834	0.027*
C11	0.65378 (10)	0.22347 (17)	0.61007 (9)	0.0195 (3)
H11	0.6861	0.3218	0.6435	0.023*
C12	0.57030 (10)	0.16888 (16)	0.64028 (9)	0.0195 (3)
H12A	0.5280	0.0943	0.5965	0.023*
H12B	0.5971	0.1057	0.6942	0.023*
C13	0.54069 (11)	0.36552 (19)	0.74324 (9)	0.0253 (3)
H13A	0.5239	0.4819	0.7427	0.038*
H13B	0.6107	0.3523	0.7697	0.038*
H13C	0.5075	0.3040	0.7765	0.038*

C14	0.43142 (10)	0.36483 (16)	0.59459 (9)	0.0175 (3)
C15	0.34745 (10)	0.33743 (15)	0.43473 (9)	0.0177 (3)
C16	0.25039 (10)	0.36157 (17)	0.42568 (10)	0.0228 (3)
H16	0.2307	0.3745	0.4749	0.027*
C17	0.18274 (11)	0.36650 (18)	0.34365 (10)	0.0274 (3)
H17	0.1166	0.3841	0.3374	0.033*
C18	0.20929 (11)	0.34643 (19)	0.27106 (10)	0.0280 (3)
H18	0.1619	0.3497	0.2155	0.034*
C19	0.30580 (11)	0.32148 (18)	0.28011 (9)	0.0251 (3)
H19	0.3249	0.3065	0.2307	0.030*
C20	0.37432 (10)	0.31839 (16)	0.36127 (9)	0.0212 (3)
H20	0.4405	0.3031	0.3671	0.025*

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

	$U^{11}$	$U^{22}$	$U^{33}$	$U^{12}$	$U^{13}$	$U^{23}$
S1	0.0242 (2)	0.02255 (18)	0.0209 (2)	0.00347 (13)	0.01083 (14)	0.00010 (13)
O1	0.0211 (5)	0.0255 (5)	0.0227 (5)	0.0022 (4)	0.0102 (4)	0.0086 (4)
N1	0.0209 (6)	0.0219 (6)	0.0169 (6)	0.0021 (4)	0.0072 (5)	0.0012 (4)
N2	0.0176 (6)	0.0247 (6)	0.0176 (6)	0.0025 (5)	0.0074 (5)	0.0004 (5)
C1	0.0210 (7)	0.0185 (6)	0.0264 (7)	0.0061 (5)	0.0092 (6)	0.0057 (5)
C2	0.0215 (7)	0.0253 (7)	0.0294 (8)	0.0078 (6)	0.0056 (6)	0.0039 (6)
C3	0.0195 (7)	0.0279 (8)	0.0450 (10)	0.0049 (6)	0.0057 (7)	0.0036 (7)
C4	0.0255 (8)	0.0285 (8)	0.0531 (11)	0.0098 (6)	0.0196 (7)	0.0149 (7)
C5	0.0342 (9)	0.0333 (8)	0.0348 (9)	0.0116 (7)	0.0203 (7)	0.0108 (7)
C6	0.0267 (8)	0.0221 (7)	0.0285 (8)	0.0090 (6)	0.0105 (6)	0.0062 (6)
C7	0.0317 (9)	0.0433 (10)	0.0289 (9)	0.0076 (7)	0.0029 (7)	-0.0013 (7)
C8	0.0328 (10)	0.0438 (11)	0.0815 (16)	0.0091 (8)	0.0315 (10)	0.0224 (10)
C9	0.0361 (9)	0.0370 (9)	0.0247 (8)	0.0071 (7)	0.0096 (7)	-0.0018 (7)
C10	0.0236 (7)	0.0190 (6)	0.0257 (7)	0.0040 (5)	0.0101 (6)	0.0064 (5)
C11	0.0198 (7)	0.0193 (6)	0.0201 (7)	0.0017 (5)	0.0074 (5)	0.0045 (5)
C12	0.0197 (7)	0.0186 (6)	0.0211 (7)	0.0013 (5)	0.0080 (5)	0.0039 (5)
C13	0.0280 (8)	0.0306 (8)	0.0167 (7)	-0.0006 (6)	0.0064 (6)	-0.0002 (6)
C14	0.0192 (7)	0.0162 (6)	0.0188 (7)	-0.0029 (5)	0.0086 (5)	0.0009 (5)
C15	0.0200 (7)	0.0148 (6)	0.0183 (7)	-0.0014 (5)	0.0061 (5)	-0.0005 (5)
C16	0.0215 (7)	0.0233 (7)	0.0246 (7)	-0.0015 (5)	0.0089 (6)	-0.0005 (6)
C17	0.0185 (7)	0.0290 (8)	0.0315 (8)	-0.0016 (6)	0.0039 (6)	0.0005 (6)
C18	0.0272 (8)	0.0293 (8)	0.0218 (8)	-0.0048 (6)	0.0000 (6)	0.0012 (6)
C19	0.0311 (8)	0.0259 (7)	0.0177 (7)	-0.0043 (6)	0.0070 (6)	-0.0006 (6)
C20	0.0220 (7)	0.0207 (6)	0.0220 (7)	-0.0019 (5)	0.0086 (6)	-0.0011 (5)

*Geometric parameters (Å, °)*

S1—C14	1.6885 (14)	C8—H8C	0.9800
O1—C11	1.4353 (17)	C9—H9A	0.9800
O1—H1	0.826 (9)	C9—H9B	0.9800
N1—C14	1.3583 (17)	C9—H9C	0.9800
N1—C13	1.4544 (18)	C10—C11	1.5333 (19)

N1—C12	1.4730 (17)	C10—H10A	0.9900
N2—C14	1.3578 (18)	C10—H10B	0.9900
N2—C15	1.4086 (17)	C11—C12	1.5275 (19)
N2—H2	0.875 (9)	C11—H11	1.0000
C1—C6	1.404 (2)	C12—H12A	0.9900
C1—C2	1.405 (2)	C12—H12B	0.9900
C1—C10	1.5130 (19)	C13—H13A	0.9800
C2—C3	1.390 (2)	C13—H13B	0.9800
C2—C7	1.512 (2)	C13—H13C	0.9800
C3—C4	1.387 (3)	C15—C16	1.393 (2)
C3—H3	0.9500	C15—C20	1.396 (2)
C4—C5	1.383 (3)	C16—C17	1.389 (2)
C4—C8	1.513 (2)	C16—H16	0.9500
C5—C6	1.391 (2)	C17—C18	1.380 (2)
C5—H5	0.9500	C17—H17	0.9500
C6—C9	1.510 (2)	C18—C19	1.386 (2)
C7—H7A	0.9800	C18—H18	0.9500
C7—H7B	0.9800	C19—C20	1.3835 (19)
C7—H7C	0.9800	C19—H19	0.9500
C8—H8A	0.9800	C20—H20	0.9500
C8—H8B	0.9800		
C11—O1—H1	114.3 (14)	C1—C10—H10A	109.1
C14—N1—C13	120.79 (12)	C11—C10—H10A	109.1
C14—N1—C12	124.00 (12)	C1—C10—H10B	109.1
C13—N1—C12	115.16 (11)	C11—C10—H10B	109.1
C14—N2—C15	131.51 (12)	H10A—C10—H10B	107.9
C14—N2—H2	113.4 (12)	O1—C11—C12	105.77 (11)
C15—N2—H2	113.7 (12)	O1—C11—C10	110.52 (11)
C6—C1—C2	119.22 (14)	C12—C11—C10	111.01 (11)
C6—C1—C10	121.17 (13)	O1—C11—H11	109.8
C2—C1—C10	119.61 (13)	C12—C11—H11	109.8
C3—C2—C1	119.47 (15)	C10—C11—H11	109.8
C3—C2—C7	118.83 (15)	N1—C12—C11	114.64 (11)
C1—C2—C7	121.68 (14)	N1—C12—H12A	108.6
C4—C3—C2	121.91 (16)	C11—C12—H12A	108.6
C4—C3—H3	119.0	N1—C12—H12B	108.6
C2—C3—H3	119.0	C11—C12—H12B	108.6
C5—C4—C3	117.90 (15)	H12A—C12—H12B	107.6
C5—C4—C8	120.58 (17)	N1—C13—H13A	109.5
C3—C4—C8	121.51 (18)	N1—C13—H13B	109.5
C4—C5—C6	122.24 (16)	H13A—C13—H13B	109.5
C4—C5—H5	118.9	N1—C13—H13C	109.5
C6—C5—H5	118.9	H13A—C13—H13C	109.5
C5—C6—C1	119.24 (15)	H13B—C13—H13C	109.5
C5—C6—C9	118.75 (15)	N2—C14—N1	113.87 (12)
C1—C6—C9	122.01 (14)	N2—C14—S1	123.98 (10)
C2—C7—H7A	109.5	N1—C14—S1	122.12 (10)

C2—C7—H7B	109.5	C16—C15—C20	119.25 (13)
H7A—C7—H7B	109.5	C16—C15—N2	125.74 (13)
C2—C7—H7C	109.5	C20—C15—N2	114.87 (12)
H7A—C7—H7C	109.5	C17—C16—C15	119.10 (14)
H7B—C7—H7C	109.5	C17—C16—H16	120.4
C4—C8—H8A	109.5	C15—C16—H16	120.4
C4—C8—H8B	109.5	C18—C17—C16	121.61 (14)
H8A—C8—H8B	109.5	C18—C17—H17	119.2
C4—C8—H8C	109.5	C16—C17—H17	119.2
H8A—C8—H8C	109.5	C17—C18—C19	119.26 (14)
H8B—C8—H8C	109.5	C17—C18—H18	120.4
C6—C9—H9A	109.5	C19—C18—H18	120.4
C6—C9—H9B	109.5	C20—C19—C18	119.91 (14)
H9A—C9—H9B	109.5	C20—C19—H19	120.0
C6—C9—H9C	109.5	C18—C19—H19	120.0
H9A—C9—H9C	109.5	C19—C20—C15	120.85 (13)
H9B—C9—H9C	109.5	C19—C20—H20	119.6
C1—C10—C11	112.30 (11)	C15—C20—H20	119.6
C6—C1—C2—C3	1.4 (2)	C14—N1—C12—C11	90.19 (16)
C10—C1—C2—C3	-177.61 (13)	C13—N1—C12—C11	-92.18 (14)
C6—C1—C2—C7	-177.09 (13)	O1—C11—C12—N1	-76.40 (14)
C10—C1—C2—C7	3.9 (2)	C10—C11—C12—N1	163.70 (12)
C1—C2—C3—C4	-1.5 (2)	C15—N2—C14—N1	170.80 (13)
C7—C2—C3—C4	177.01 (14)	C15—N2—C14—S1	-10.8 (2)
C2—C3—C4—C5	0.5 (2)	C13—N1—C14—N2	167.94 (12)
C2—C3—C4—C8	-178.50 (15)	C12—N1—C14—N2	-14.56 (18)
C3—C4—C5—C6	0.6 (2)	C13—N1—C14—S1	-10.48 (18)
C8—C4—C5—C6	179.65 (15)	C12—N1—C14—S1	167.02 (10)
C4—C5—C6—C1	-0.7 (2)	C14—N2—C15—C16	-22.3 (2)
C4—C5—C6—C9	-179.63 (14)	C14—N2—C15—C20	162.14 (13)
C2—C1—C6—C5	-0.3 (2)	C20—C15—C16—C17	-0.2 (2)
C10—C1—C6—C5	178.68 (13)	N2—C15—C16—C17	-175.56 (13)
C2—C1—C6—C9	178.57 (13)	C15—C16—C17—C18	0.7 (2)
C10—C1—C6—C9	-2.4 (2)	C16—C17—C18—C19	-0.3 (2)
C6—C1—C10—C11	-94.33 (16)	C17—C18—C19—C20	-0.6 (2)
C2—C1—C10—C11	84.66 (16)	C18—C19—C20—C15	1.1 (2)
C1—C10—C11—O1	67.26 (15)	C16—C15—C20—C19	-0.7 (2)
C1—C10—C11—C12	-175.70 (12)	N2—C15—C20—C19	175.19 (12)

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

$D-H\cdots A$	$D-H$	$H\cdots A$	$D\cdots A$	$D-H\cdots A$
O1—H1 $\cdots$ S1 <sup>i</sup>	0.83 (1)	2.50 (1)	3.219 (1)	146 (2)
N2—H2 $\cdots$ O1	0.88 (1)	1.89 (1)	2.739 (2)	165 (2)

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