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2-(4-Fluorophenyl)-4-(thiophen-2-yl)-2,3-dihydro-1,5-benzothiazepine

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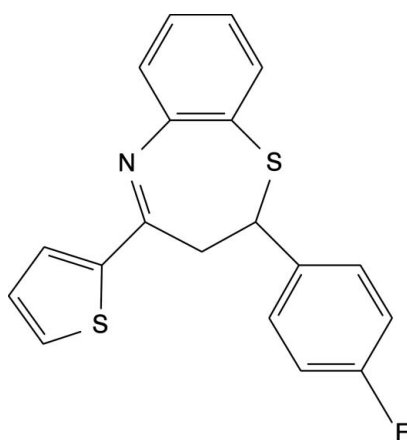
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Key indicators: single-crystal X-ray study; $T = 293$ K; mean $\sigma(\text{C}-\text{C}) = 0.004$ Å; R factor = 0.047; wR factor = 0.134; data-to-parameter ratio = 12.7.

In the title compound, $\text{C}_{19}\text{H}_{14}\text{FNS}_2$, the seven-membered thiazepine ring adopts a slightly distorted twist boat conformation. The dihedral angle between the benzene rings is $53.6(1)^\circ$. The mean plane of the thiazepine ring is twisted by $34.3(7)^\circ$ and $36.6(7)^\circ$ from the benzene rings. A $\text{C}-\text{H}\cdots\text{F}$ interaction generates stacking of molecules along the ab plane.

Related literature

For heterocycles containing the 1,4-thiazepine ring used as pharmaceutical agents as well as for biologically active compounds, see: Shi *et al.* (2012). For the pharmacological activity of benzothiazepine and its derivatives, see: Sanjeeva *et al.* (2008). For standard bond lengths, see: Allen *et al.* (1987).



Experimental

Crystal data

$\text{C}_{19}\text{H}_{14}\text{FNS}_2$	$V = 3211.1(4) \text{ \AA}^3$
$M_r = 339.43$	$Z = 8$
Monoclinic, $C2/c$	Cu $K\alpha$ radiation
$a = 26.1463(17) \text{ \AA}$	$\mu = 3.07 \text{ mm}^{-1}$
$b = 12.3091(8) \text{ \AA}$	$T = 293 \text{ K}$
$c = 10.1776(7) \text{ \AA}$	$0.24 \times 0.22 \times 0.16 \text{ mm}$
$\beta = 101.383(4)^\circ$	

Data collection

Bruker X8 Proteum diffractometer	11355 measured reflections
Absorption correction: multi-scan (SADABS; Bruker, 2013)	2647 independent reflections
$T_{\min} = 0.502$, $T_{\max} = 0.612$	2037 reflections with $I > 2\sigma(I)$
	$R_{\text{int}} = 0.054$

Refinement

$R[F^2 > 2\sigma(F^2)] = 0.047$	209 parameters
$wR(F^2) = 0.134$	H-atom parameters constrained
$S = 1.05$	$\Delta\rho_{\text{max}} = 0.24 \text{ e \AA}^{-3}$
2647 reflections	$\Delta\rho_{\text{min}} = -0.29 \text{ e \AA}^{-3}$

Table 1

Hydrogen-bond geometry (Å, °).

$D-\text{H}\cdots A$	$D-\text{H}$	$\text{H}\cdots A$	$D\cdots A$	$D-\text{H}\cdots A$
$\text{C18}-\text{H18}\cdots\text{F1}^i$	0.93	2.72	3.322 (4)	123

Symmetry code: (i) $x, -y + 1, z + \frac{1}{2}$.

Data collection: APEX2 (Bruker, 2013); cell refinement: SAINT (Bruker, 2013); 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: OLEX2 (Dolomanov *et al.*, 2009).

The authors thank the IOE and the University of Mysore for providing the single crystal X-ray diffractometer facility.

Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: JJ2176).

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supplementary materials

Acta Cryst. (2013). E69, o1608 [doi:10.1107/S1600536813025889]

2-(4-Fluorophenyl)-4-(thiophen-2-yl)-2,3-dihydro-1,5-benzothiazepine

M. Manjula, B. C. Manjunath, N. Renuka, K. Ajay Kumar and N. K. Lokanath

1. Comment

Heterocycles containing the 1,4-thiazepine ring is one of important moieties in nitrogen and sulfur containing heterocycles and has been widely used as a key building block for pharmaceutical agents as well as for biologically active compounds (Shi *et al.*, 2012). The title compound $C_{19}H_{14}F_N S_2$, (I), is a tetracyclic structure with one aromatic ring fused to a seven membered ring, on which two heteroatoms are present. Benzothiazepine and its derivatives show a wide spectrum of pharmacological activities such as antifeedent, coronary vasodilatory, tranquilizer, antidepressant, CNS stimulant, antihypertensive, calcium channel blocker, antiulcer, calcium antagonist and antimicrobial agents (Sanjeeva *et al.*, 2008). The atoms C9, C8, C11 and C12 present in the central thiazepine ring forms a basal plane with S10 atom as the bow, representing the boat conformation of thiazepine ring.

In (I), The dihedral angle between the mean plans of the benzene rings is $53.6(1)^\circ$. The mean plane of the thiazepine ring is twisted by $34.3(7)^\circ$ and $36.6(7)^\circ$ from the mean planes of two benzene rings. Bond lengths are in normal ranges (Allen *et al.*, 1987).

2. Experimental

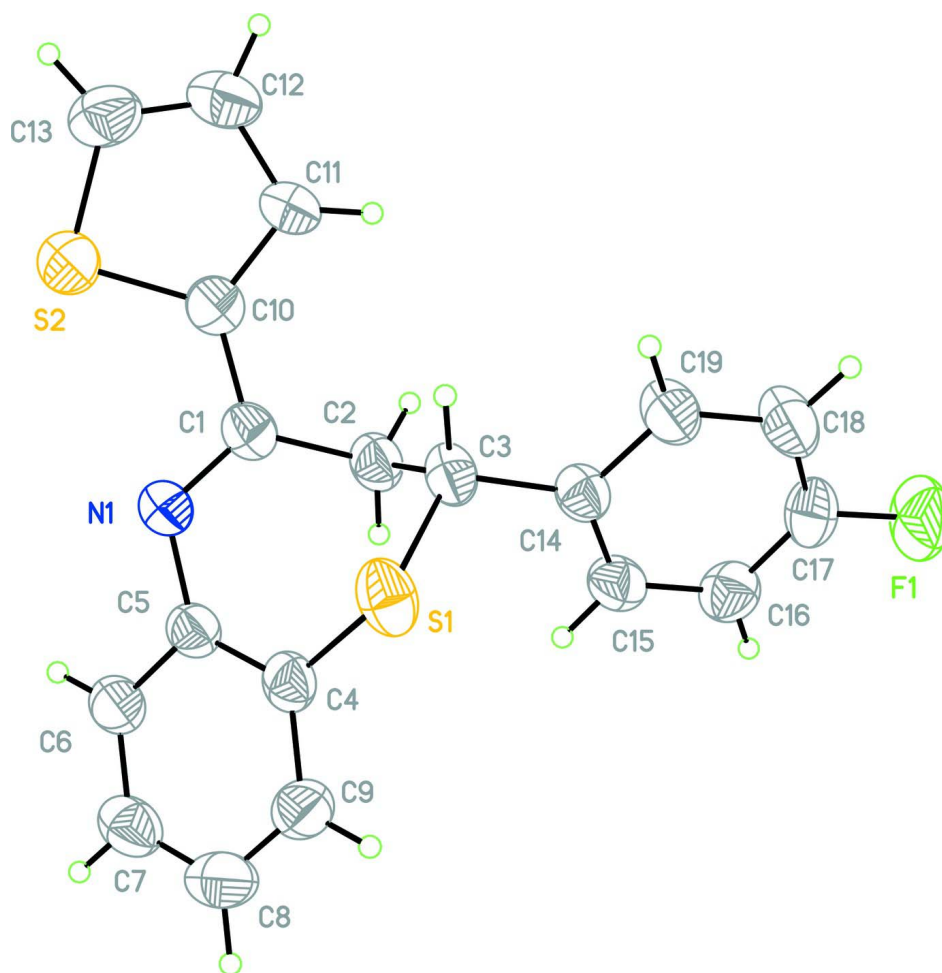
A mixture of 2-aminothiophenol (4 mmol, 0.50 g) with 3-(4-fluorophenyl)-1-(thiophen-2-yl)prop-2-en-1-one (4 mmol, 0.93 g) and 3 to 4 drops of conc. HCl in methanol (10 ml) was heated with stirring at 473 K for 4 h. The reaction was monitored by thin-layer chromatography (hexane or chloroform). After completion of the reaction, the mixture was extracted into ether (30 ml), washed successively with cold and dilute hydrochloric acid and water. The solvent was evaporated to dryness, and crystallized from 95° ethyl alcohol to get pale yellow needles of 2-(4-fluorophenyl)-4-(thiophen-2-yl)-2,3-dihydro-1,5-benzothiazepine in 85° yield. m.p. 422 K. Anal. Calcd. for $C_{19}H_{14}F_N S_2$: C 67.23, H 4.16, N 4.13%; found C 67.20, H 4.11, N 4.08%.

3. Refinement

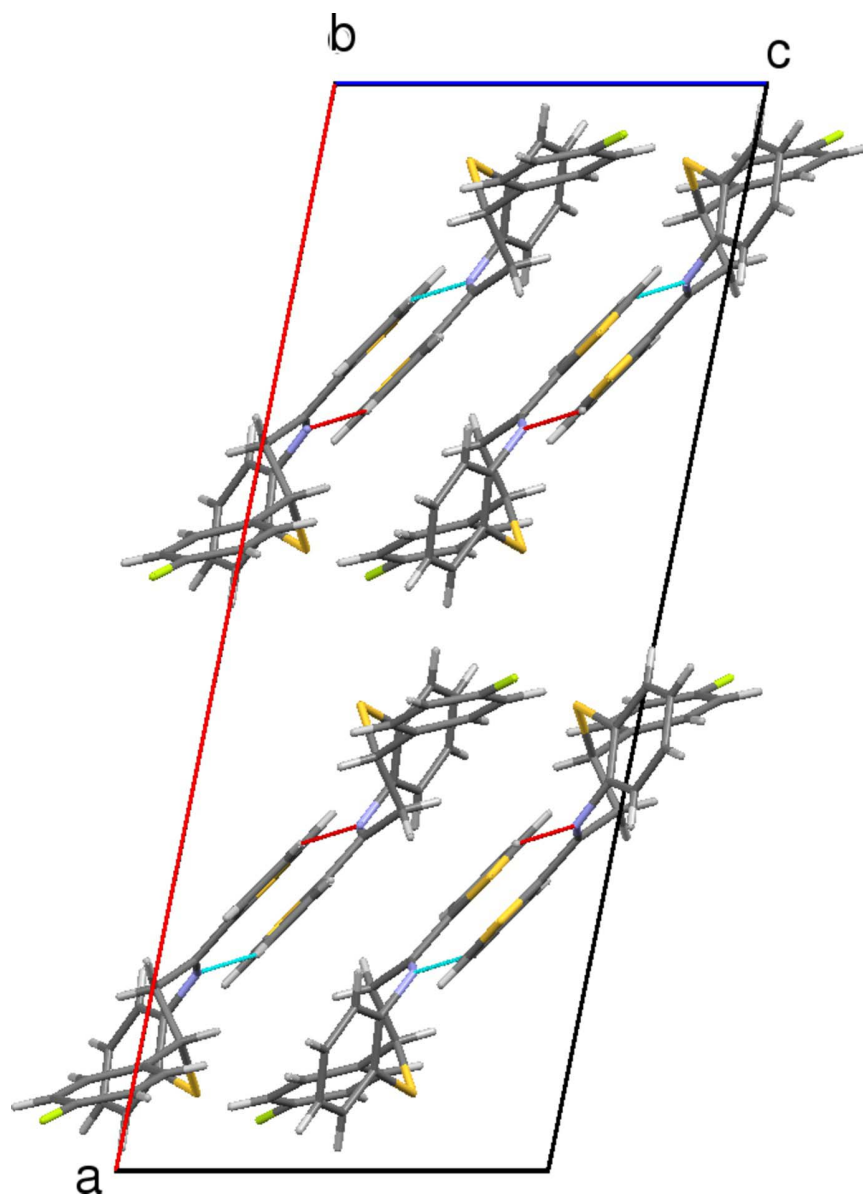
All hydrogen atoms were located geometrically with $C-H = 0.93-0.97$ Å and allowed to ride on their parent atoms with $U_{iso}(H) = 1.2U_{eq}(\text{aromatic C})$.

Computing details

Data collection: *APEX2* (Bruker, 2013); cell refinement: *SAINTE* (Bruker, 2013); data reduction: *SAINTE* (Bruker, 2013); 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: *Olex2* (Dolomanov *et al.*, 2009).

**Figure 1**

ORTEP diagram of the title molecule, C₁₉H₁₄FN₂S₂, with 50% probability ellipsoids.

**Figure 2**

Hydrogen-bond (supramolecular architecture) interactions in the title compound.

2-(4-Fluorophenyl)-4-(thiophen-2-yl)-2,3-dihydro-1,5-benzothiazepine

Crystal data

$C_{19}H_{14}FNS_2$

$M_r = 339.43$

Monoclinic, $C2/c$

$a = 26.1463$ (17) Å

$b = 12.3091$ (8) Å

$c = 10.1776$ (7) Å

$\beta = 101.383$ (4)°

$V = 3211.1$ (4) Å³

$Z = 8$

$F(000) = 1408$

$D_x = 1.404$ Mg m⁻³

Cu $K\alpha$ radiation, $\lambda = 1.54178$ Å

Cell parameters from 11356 reflections

$\theta = 64.7$ – 4.0 °

$\mu = 3.07$ mm⁻¹

$T = 293$ K

Needle, light yellow

$0.24 \times 0.22 \times 0.16$ mm

Data collection

Bruker X8 Proteum diffractometer	$T_{\min} = 0.502$, $T_{\max} = 0.612$ 11355 measured reflections
Radiation source: Bruker MicroStar microfocus rotating anode	2647 independent reflections 2037 reflections with $I > 2\sigma(I)$
Helios multilayer optics monochromator	$R_{\text{int}} = 0.054$
Detector resolution: 10.7 pixels mm^{-1}	$\theta_{\max} = 64.7^\circ$, $\theta_{\min} = 4.0^\circ$
φ and ω scans	$h = -30 \rightarrow 30$
Absorption correction: multi-scan (SADABS; Bruker, 2013)	$k = -13 \rightarrow 14$ $l = -9 \rightarrow 11$

Refinement

Refinement on F^2	Hydrogen site location: inferred from neighbouring sites
Least-squares matrix: full	H-atom parameters constrained
$R[F^2 > 2\sigma(F^2)] = 0.047$	$w = 1/[\sigma^2(F_o^2) + (0.071P)^2 + 1.8964P]$
$wR(F^2) = 0.134$	where $P = (F_o^2 + 2F_c^2)/3$
$S = 1.05$	$(\Delta/\sigma)_{\max} < 0.001$
2647 reflections	$\Delta\rho_{\max} = 0.24 \text{ e } \text{\AA}^{-3}$
209 parameters	$\Delta\rho_{\min} = -0.29 \text{ e } \text{\AA}^{-3}$
0 restraints	Extinction correction: SHELXL, $F_c^* = kF_c[1 + 0.001x F_c^2 \lambda^3 / \sin(2\theta)]^{-1/4}$
Primary atom site location: structure-invariant direct methods	Extinction coefficient: 0.00022 (8)

Special details

Experimental. ^1H NMR (CDCl_3): δ 1.82 (d, 1H, C3—H), 2.12 (d, 1H, C3—H), 3.80 (d, 1H, C2—H), 7.20 (dd, 2H, Ar—H), 7.28 (dd, 2H, Ar—H), 7.18 (t, 1H, C4—H 5 m ring), 7.46 (d, 1H, C3—H 5 m ring), 7.72 (d, 1H, C5—H 5 m ring), 7.32–7.46 (m, 4H, Ar—H).

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.

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

	<i>x</i>	<i>y</i>	<i>z</i>	$U_{\text{iso}}^*/U_{\text{eq}}$
S1	0.42843 (3)	0.03004 (6)	0.65079 (8)	0.0534 (3)
S2	0.22949 (3)	−0.03765 (7)	0.72781 (9)	0.0592 (3)
F1	0.45335 (9)	0.47959 (17)	0.3082 (2)	0.0811 (6)
N1	0.31778 (8)	−0.09171 (18)	0.5962 (2)	0.0434 (5)
C1	0.30635 (10)	0.0103 (2)	0.5851 (3)	0.0421 (6)
C2	0.33154 (10)	0.0903 (2)	0.5056 (3)	0.0446 (7)
H2A	0.3072	0.1485	0.4743	0.054*
H2B	0.3398	0.0541	0.4278	0.054*
C3	0.38127 (10)	0.1381 (2)	0.5894 (3)	0.0434 (6)
H3	0.3716	0.1717	0.6683	0.052*
C4	0.40778 (10)	−0.0855 (2)	0.5505 (3)	0.0423 (6)
C5	0.35838 (10)	−0.1337 (2)	0.5390 (3)	0.0409 (6)
C6	0.34956 (11)	−0.2345 (2)	0.4772 (3)	0.0471 (7)
H6	0.3170	−0.2671	0.4692	0.056*
C7	0.38840 (12)	−0.2870 (3)	0.4272 (3)	0.0543 (8)
H7	0.3818	−0.3545	0.3862	0.065*
C8	0.43681 (13)	−0.2397 (3)	0.4380 (3)	0.0588 (8)

H8	0.4630	-0.2755	0.4053	0.071*
C9	0.44617 (11)	-0.1395 (3)	0.4974 (3)	0.0515 (8)
H9	0.4786	-0.1070	0.5024	0.062*
C10	0.26577 (10)	0.0500 (2)	0.6544 (3)	0.0448 (7)
C11	0.25218 (11)	0.1577 (2)	0.6726 (3)	0.0499 (7)
H11	0.2670	0.2175	0.6384	0.060*
C12	0.21274 (13)	0.1639 (3)	0.7503 (4)	0.0642 (9)
H12	0.1992	0.2290	0.7748	0.077*
C13	0.19709 (12)	0.0656 (3)	0.7849 (4)	0.0641 (9)
H13	0.1713	0.0555	0.8348	0.077*
C14	0.40372 (10)	0.2271 (2)	0.5150 (3)	0.0406 (6)
C15	0.41640 (11)	0.2101 (2)	0.3910 (3)	0.0473 (7)
H15	0.4136	0.1406	0.3544	0.057*
C16	0.43319 (11)	0.2941 (3)	0.3206 (3)	0.0515 (7)
H16	0.4410	0.2823	0.2365	0.062*
C17	0.43805 (12)	0.3947 (3)	0.3772 (3)	0.0526 (7)
C18	0.42809 (14)	0.4155 (3)	0.5015 (3)	0.0601 (8)
H18	0.4329	0.4845	0.5391	0.072*
C19	0.41050 (13)	0.3301 (2)	0.5697 (3)	0.0533 (8)
H19	0.4031	0.3424	0.6542	0.064*

Atomic displacement parameters (\AA^2)

	U^{11}	U^{22}	U^{33}	U^{12}	U^{13}	U^{23}
S1	0.0529 (4)	0.0427 (5)	0.0573 (5)	-0.0034 (3)	-0.0069 (3)	0.0079 (3)
S2	0.0529 (4)	0.0507 (5)	0.0772 (6)	-0.0008 (3)	0.0207 (4)	-0.0009 (4)
F1	0.1102 (16)	0.0648 (13)	0.0754 (14)	-0.0166 (12)	0.0354 (12)	0.0212 (11)
N1	0.0461 (11)	0.0348 (12)	0.0509 (14)	-0.0007 (10)	0.0135 (10)	-0.0027 (11)
C1	0.0417 (13)	0.0372 (15)	0.0453 (16)	-0.0003 (11)	0.0037 (12)	-0.0011 (12)
C2	0.0483 (14)	0.0363 (15)	0.0489 (17)	0.0018 (12)	0.0088 (12)	0.0056 (13)
C3	0.0528 (14)	0.0342 (14)	0.0423 (16)	-0.0060 (12)	0.0079 (12)	-0.0003 (12)
C4	0.0449 (13)	0.0376 (15)	0.0438 (16)	0.0026 (11)	0.0070 (12)	0.0097 (12)
C5	0.0471 (14)	0.0360 (14)	0.0404 (15)	0.0039 (11)	0.0105 (12)	0.0024 (12)
C6	0.0557 (15)	0.0402 (16)	0.0463 (17)	0.0018 (12)	0.0126 (13)	0.0008 (13)
C7	0.0741 (19)	0.0447 (17)	0.0452 (18)	0.0089 (15)	0.0144 (15)	-0.0012 (14)
C8	0.0629 (18)	0.063 (2)	0.054 (2)	0.0211 (16)	0.0197 (15)	0.0065 (16)
C9	0.0466 (14)	0.0549 (19)	0.0554 (19)	0.0096 (13)	0.0159 (13)	0.0145 (15)
C10	0.0413 (13)	0.0436 (16)	0.0481 (17)	0.0001 (11)	0.0049 (12)	-0.0010 (13)
C11	0.0539 (15)	0.0378 (16)	0.0606 (19)	0.0079 (12)	0.0174 (14)	-0.0045 (14)
C12	0.0676 (19)	0.054 (2)	0.073 (2)	0.0165 (16)	0.0189 (17)	-0.0071 (18)
C13	0.0509 (16)	0.073 (2)	0.072 (2)	0.0084 (16)	0.0213 (16)	-0.0012 (18)
C14	0.0483 (14)	0.0358 (14)	0.0369 (15)	0.0002 (11)	0.0067 (11)	0.0007 (12)
C15	0.0564 (15)	0.0418 (16)	0.0452 (17)	-0.0005 (13)	0.0139 (13)	-0.0077 (13)
C16	0.0557 (16)	0.057 (2)	0.0441 (17)	-0.0006 (14)	0.0145 (13)	0.0015 (15)
C17	0.0604 (16)	0.0483 (17)	0.0502 (18)	-0.0065 (14)	0.0138 (14)	0.0156 (15)
C18	0.089 (2)	0.0377 (17)	0.055 (2)	-0.0076 (16)	0.0177 (17)	-0.0019 (14)
C19	0.082 (2)	0.0397 (17)	0.0418 (16)	-0.0034 (14)	0.0202 (15)	-0.0008 (13)

Geometric parameters (Å, °)

S1—C3	1.837 (3)	C7—C8	1.378 (5)
S1—C4	1.772 (3)	C8—H8	0.9300
S2—C10	1.704 (3)	C8—C9	1.374 (5)
S2—C13	1.693 (3)	C9—H9	0.9300
F1—C17	1.362 (3)	C10—C11	1.394 (4)
N1—C1	1.290 (3)	C11—H11	0.9300
N1—C5	1.406 (3)	C11—C12	1.420 (4)
C1—C2	1.506 (4)	C12—H12	0.9300
C1—C10	1.469 (4)	C12—C13	1.346 (5)
C2—H2A	0.9700	C13—H13	0.9300
C2—H2B	0.9700	C14—C15	1.382 (4)
C2—C3	1.525 (4)	C14—C19	1.382 (4)
C3—H3	0.9800	C15—H15	0.9300
C3—C14	1.515 (4)	C15—C16	1.378 (4)
C4—C5	1.405 (4)	C16—H16	0.9300
C4—C9	1.398 (4)	C16—C17	1.362 (4)
C5—C6	1.389 (4)	C17—C18	1.365 (5)
C6—H6	0.9300	C18—H18	0.9300
C6—C7	1.383 (4)	C18—C19	1.388 (4)
C7—H7	0.9300	C19—H19	0.9300
C4—S1—C3	106.11 (12)	C4—C9—H9	119.4
C13—S2—C10	91.98 (16)	C8—C9—C4	121.2 (3)
C1—N1—C5	120.2 (2)	C8—C9—H9	119.4
N1—C1—C2	124.4 (2)	C1—C10—S2	121.1 (2)
N1—C1—C10	117.3 (2)	C11—C10—S2	111.4 (2)
C10—C1—C2	118.3 (2)	C11—C10—C1	127.4 (3)
C1—C2—H2A	109.3	C10—C11—H11	124.5
C1—C2—H2B	109.3	C10—C11—C12	110.9 (3)
C1—C2—C3	111.5 (2)	C12—C11—H11	124.5
H2A—C2—H2B	108.0	C11—C12—H12	123.6
C3—C2—H2A	109.3	C13—C12—C11	112.9 (3)
C3—C2—H2B	109.3	C13—C12—H12	123.6
S1—C3—H3	107.0	S2—C13—H13	123.6
C2—C3—S1	110.59 (18)	C12—C13—S2	112.7 (2)
C2—C3—H3	107.0	C12—C13—H13	123.6
C14—C3—S1	113.15 (18)	C15—C14—C3	122.3 (2)
C14—C3—C2	111.8 (2)	C15—C14—C19	118.1 (3)
C14—C3—H3	107.0	C19—C14—C3	119.6 (2)
C5—C4—S1	123.9 (2)	C14—C15—H15	119.3
C9—C4—S1	116.3 (2)	C16—C15—C14	121.3 (3)
C9—C4—C5	119.0 (3)	C16—C15—H15	119.3
C4—C5—N1	124.6 (2)	C15—C16—H16	120.8
C6—C5—N1	116.4 (2)	C17—C16—C15	118.3 (3)
C6—C5—C4	118.8 (2)	C17—C16—H16	120.8
C5—C6—H6	119.5	F1—C17—C18	117.6 (3)
C7—C6—C5	121.1 (3)	C16—C17—F1	119.5 (3)
C7—C6—H6	119.5	C16—C17—C18	123.0 (3)

C6—C7—H7	119.9	C17—C18—H18	121.2
C8—C7—C6	120.2 (3)	C17—C18—C19	117.6 (3)
C8—C7—H7	119.9	C19—C18—H18	121.2
C7—C8—H8	120.1	C14—C19—C18	121.5 (3)
C9—C8—C7	119.7 (3)	C14—C19—H19	119.3
C9—C8—H8	120.1	C18—C19—H19	119.3
S1—C3—C14—C15	69.3 (3)	C4—S1—C3—C2	17.3 (2)
S1—C3—C14—C19	-112.7 (3)	C4—S1—C3—C14	-109.0 (2)
S1—C4—C5—N1	5.5 (4)	C4—C5—C6—C7	-0.1 (4)
S1—C4—C5—C6	-168.7 (2)	C5—N1—C1—C2	4.2 (4)
S1—C4—C9—C8	168.7 (2)	C5—N1—C1—C10	-176.2 (2)
S2—C10—C11—C12	1.5 (3)	C5—C4—C9—C8	-1.8 (4)
F1—C17—C18—C19	177.5 (3)	C5—C6—C7—C8	-0.1 (5)
N1—C1—C2—C3	-87.2 (3)	C6—C7—C8—C9	-0.7 (5)
N1—C1—C10—S2	-8.3 (4)	C7—C8—C9—C4	1.7 (5)
N1—C1—C10—C11	170.2 (3)	C9—C4—C5—N1	175.3 (3)
N1—C5—C6—C7	-174.8 (3)	C9—C4—C5—C6	1.0 (4)
C1—N1—C5—C4	45.9 (4)	C10—S2—C13—C12	0.0 (3)
C1—N1—C5—C6	-139.7 (3)	C10—C1—C2—C3	93.2 (3)
C1—C2—C3—S1	58.9 (3)	C10—C11—C12—C13	-1.5 (4)
C1—C2—C3—C14	-174.0 (2)	C11—C12—C13—S2	0.8 (4)
C1—C10—C11—C12	-177.2 (3)	C13—S2—C10—C1	177.9 (2)
C2—C1—C10—S2	171.3 (2)	C13—S2—C10—C11	-0.9 (2)
C2—C1—C10—C11	-10.1 (4)	C14—C15—C16—C17	1.3 (4)
C2—C3—C14—C15	-56.3 (3)	C15—C14—C19—C18	1.8 (5)
C2—C3—C14—C19	121.6 (3)	C15—C16—C17—F1	-178.4 (3)
C3—S1—C4—C5	-58.1 (3)	C15—C16—C17—C18	1.4 (5)
C3—S1—C4—C9	131.9 (2)	C16—C17—C18—C19	-2.3 (5)
C3—C14—C15—C16	175.2 (3)	C17—C18—C19—C14	0.7 (5)
C3—C14—C19—C18	-176.2 (3)	C19—C14—C15—C16	-2.8 (4)

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

$D-H\cdots A$	$D-H$	$H\cdots A$	$D\cdots A$	$D-H\cdots A$
C18—H18 \cdots F1 ⁱ	0.93	2.72	3.322 (4)	123

Symmetry code: (i) $x, -y+1, z+1/2$.