

5-[(4-Benzyl-1*H*-1,2,3-triazol-1-yl)methyl]-5*H*-dibenzo[*b,f*]azepine

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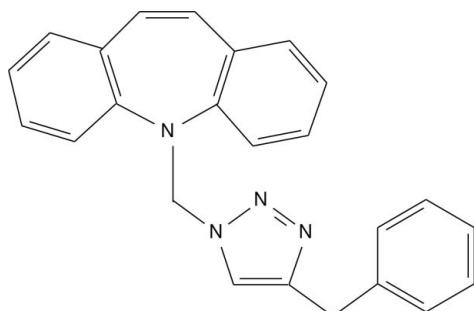
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Key indicators: single-crystal X-ray study; $T = 300\text{ K}$; mean $\sigma(\text{C}-\text{C}) = 0.003\text{ \AA}$; R factor = 0.045; wR factor = 0.124; data-to-parameter ratio = 14.7.

In the title compound, $\text{C}_{24}\text{H}_{20}\text{N}_4$, the azepine ring adopts a boat conformation and the dihedral angle between the benzene rings fused to it is $57.95(8)^\circ$. The bond-angle sum at the azepine N atom is 346.6° , indicating a significant deviation from planarity. The triazole ring subtends a dihedral angle of $71.45(10)^\circ$ with the terminal phenyl group. A weak intramolecular $\text{C}-\text{H} \cdots \text{N}_a$ (a = azepine) interaction occurs, which closes an *S*(6) ring.

Related literature

For a related structure and background to isoxazole derivatives, see: Abdoh *et al.* (2013).



Experimental

Crystal data

$\text{C}_{24}\text{H}_{20}\text{N}_4$	$V = 1889.1(4)\text{ \AA}^3$
$M_r = 364.44$	$Z = 4$
Monoclinic, $P2_1/c$	Mo $K\alpha$ radiation
$a = 9.4394(10)\text{ \AA}$	$\mu = 0.08\text{ mm}^{-1}$
$b = 22.206(3)\text{ \AA}$	$T = 300\text{ K}$
$c = 9.4330(9)\text{ \AA}$	$0.26 \times 0.23 \times 0.20\text{ mm}$
$\beta = 107.172(3)^\circ$	

Data collection

Bruker APEXII CCD diffractometer	3711 independent reflections
22703 measured reflections	2982 reflections with $I > 2\sigma(I)$
	$R_{\text{int}} = 0.045$

Refinement

$R[F^2 > 2\sigma(F^2)] = 0.045$	253 parameters
$wR(F^2) = 0.124$	H-atom parameters constrained
$S = 1.01$	$\Delta\rho_{\text{max}} = 0.16\text{ e \AA}^{-3}$
3711 reflections	$\Delta\rho_{\text{min}} = -0.23\text{ e \AA}^{-3}$

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

$D-\text{H} \cdots A$	$D-\text{H}$	$\text{H} \cdots A$	$D \cdots A$	$D-\text{H} \cdots A$
C7—H7A \cdots N4	0.97	2.56	3.173 (2)	121

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: *Mercury* (Macrae *et al.*, 2006); software used to prepare material for publication: *Mercury*.

We thank Professor T. N. Guru Row and Vijith Kumar, SSCU, IISc, Bangalore, India, for providing facilities for the data collection.

Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: HB7099).

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supporting information

Acta Cryst. (2013). E69, o1233 [doi:10.1107/S1600536813018412]

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S1. Comment

The title compound was synthesized, crystallized and its crystal structure is presented as part of our investigations on isoxazole derivatives (Abdoh, *et al.*, 2013)

In the title molecule (Fig. 1.) benzene rings fused to azepine rings are nearly planar and its geometry is similar to 5-(Prop-2-1-yl)-5*H*-dibenzo[*b,f*]azepine: orthorhombic polymorph. Seven-membered azepine ring adopts a boat conformation as indicated by the puckering parameters $Q_2 = 0.7392$ (16) Å, $Q_3 = 0.2157$ (15) Å, $\varphi_2 = 178.44$ (12) °, $\varphi_3 = 178.4$ (4) °, and the total puckering amplitude, $Q_T = 0.7700$ (15) Å. The title molecule adopts butterfly shape. The dihedral angle between triazole moiety and benzene ring (C1/C2/C3/C4/C5/C6) is 71.45 (10)°. The packing of molecules is shown in the figure 2.

S2. Experimental

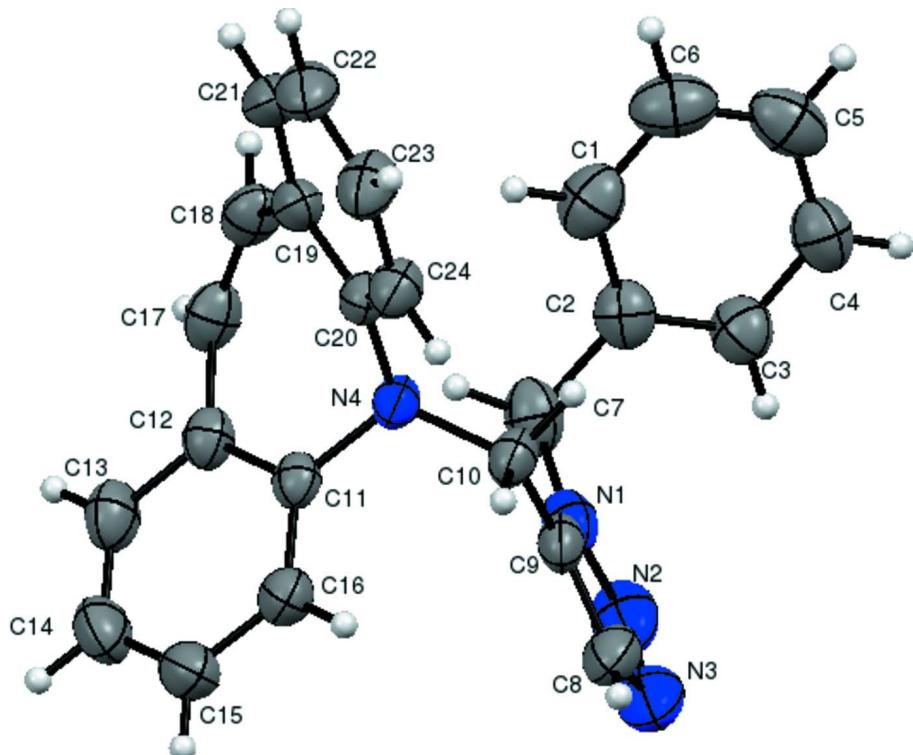
5-(prop-2-yn-1-yl)-5*H*-dibenzo[*b,f*]azepine (2.1 mmol) was taken in a mixture of dichloromethane and water in the ratio 1:1, cuprous iodide (0.21 mmol) was added followed by sodium ascorbate (0.21 mmol) at room temperature. After 10 minutes, benzyl azide was added (2.3 mmol) at room temperature. Then, the resulting reaction mixture was allowed for stirring upto 6 h. After completion of reaction (monitored by TLC), the reaction mixture was diluted with water (50 ml). The aqueous layer was extracted with ethyl acetate (3 x 20 ml), the combined ethyl acetate layer was washed with brine solution (2 x 25 ml). Then, the organic layer was dried over anhydrous sodium sulfate, filtered and concentrated under reduced pressure to afford crude, which was purified by column chromatography over silica gel (60–120 mesh) using Hexane: Ethyl acetate mixture in 8:2 ratios as eluent. The pure compound was crystallized in ethyl acetate and hexane to obtain light red blocks.

^1H NMR (DMSO-d6, 300 MHz): δ 7.33 (t, $J=7.2$ Hz, 2H), 7.13 (t, $J=8.7$ Hz, 4H), 7.02 (t, $J=7.2$ Hz, 2H), 6.75 (s, 2H), 4.51 (d, $J=1.8$ Hz, 2H), 3.08 (s, 1H).

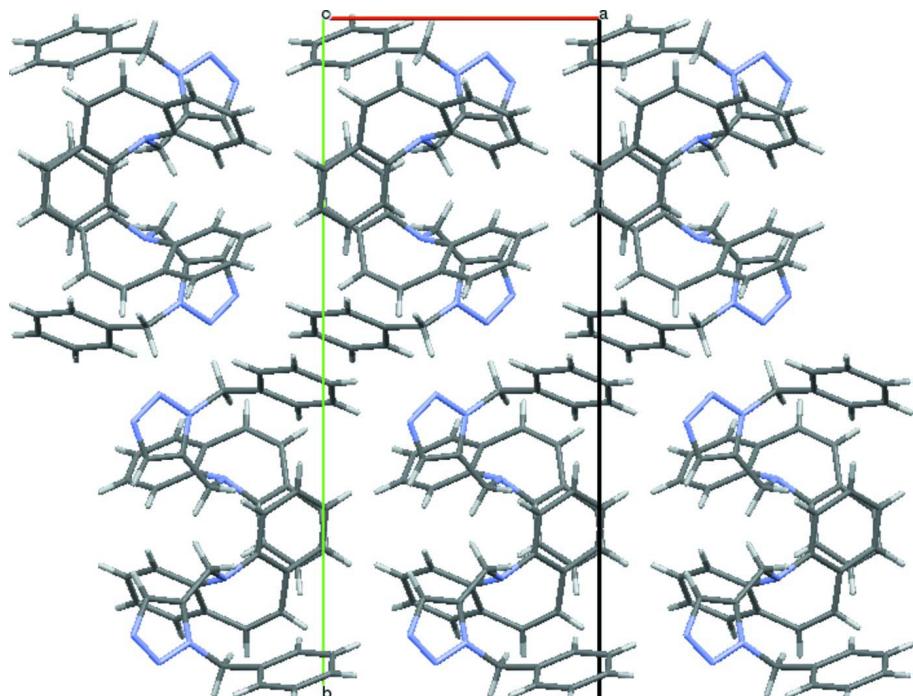
MS (M^++1): 232. Melting point (°C): 90 (Uncorrected)

S3. Refinement

All the hydrogen atoms of the compound are fixed geometrically (C—H= 0.93–0.97 Å) and allowed to ride on their parent atoms.

**Figure 1**

View of the title molecule with 50% probability ellipsoids.

**Figure 2**

Packing diagram of molecule, viewed along the crystallographic *a* axis.

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Crystal data

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 $a = 9.4394$ (10) Å
 $b = 22.206$ (3) Å
 $c = 9.4330$ (9) Å
 $\beta = 107.172$ (3)°
 $V = 1889.1$ (4) Å³
 $Z = 4$

$F(000) = 768$
 $D_x = 1.281 \text{ Mg m}^{-3}$
Mo $K\alpha$ radiation, $\lambda = 0.71073$ Å
Cell parameters from 3711 reflections
 $\theta = 1.8\text{--}26.0^\circ$
 $\mu = 0.08 \text{ mm}^{-1}$
 $T = 300$ K
Block, red
 $0.26 \times 0.23 \times 0.20$ mm

Data collection

Bruker APEXII CCD
diffractometer
Radiation source: graphite
 φ and ω scans
22703 measured reflections
3711 independent reflections

2982 reflections with $I > 2\sigma(I)$
 $R_{\text{int}} = 0.045$
 $\theta_{\text{max}} = 26.0^\circ$, $\theta_{\text{min}} = 1.8^\circ$
 $h = -11 \rightarrow 11$
 $k = -27 \rightarrow 26$
 $l = -11 \rightarrow 11$

Refinement

Refinement on F^2
Least-squares matrix: full
 $R[F^2 > 2\sigma(F^2)] = 0.045$
 $wR(F^2) = 0.124$
 $S = 1.01$
3711 reflections
253 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
 $w = 1/[\sigma^2(F_o^2) + (0.0634P)^2 + 0.445P]$
where $P = (F_o^2 + 2F_c^2)/3$
 $(\Delta/\sigma)_{\text{max}} < 0.001$
 $\Delta\rho_{\text{max}} = 0.16 \text{ e } \text{\AA}^{-3}$
 $\Delta\rho_{\text{min}} = -0.23 \text{ e } \text{\AA}^{-3}$

Special details

Geometry. Bond distances, angles etc. have been calculated using the rounded fractional coordinates. All su's are estimated from the variances of the (full) variance-covariance matrix. The cell e.s.d.'s are taken into account in the estimation of distances, angles and torsion angles

Refinement. Refinement on F^2 for ALL reflections except those flagged by the user for potential systematic errors. Weighted R -factors wR and all goodnesses 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 observed criterion of $F^2 > \sigma(F^2)$ is used only for calculating - R -factor-obs 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 (Å²)

	x	y	z	$U_{\text{iso}}^*/U_{\text{eq}}$
N1	0.48315 (15)	0.41800 (6)	0.71285 (15)	0.0485 (4)
N2	0.59240 (19)	0.44728 (7)	0.81571 (19)	0.0671 (6)
N3	0.68625 (18)	0.40672 (9)	0.89031 (18)	0.0687 (6)
N4	0.35717 (13)	0.32303 (5)	0.47460 (12)	0.0358 (3)
C1	0.0910 (2)	0.43114 (8)	0.5802 (2)	0.0602 (6)
C2	0.22436 (19)	0.45366 (6)	0.66850 (18)	0.0475 (5)

C3	0.2290 (2)	0.48013 (7)	0.8030 (2)	0.0536 (6)
C4	0.1028 (2)	0.48466 (8)	0.8465 (2)	0.0605 (6)
C5	-0.0294 (2)	0.46273 (8)	0.7577 (3)	0.0667 (7)
C6	-0.0358 (2)	0.43573 (8)	0.6250 (3)	0.0690 (7)
C7	0.3606 (2)	0.45281 (7)	0.6163 (2)	0.0562 (6)
C8	0.63739 (19)	0.35255 (9)	0.83410 (18)	0.0551 (5)
C9	0.50799 (17)	0.35803 (7)	0.72201 (15)	0.0410 (4)
C10	0.40884 (17)	0.31033 (7)	0.63385 (15)	0.0408 (4)
C11	0.46560 (15)	0.33324 (6)	0.39878 (15)	0.0357 (4)
C12	0.42678 (17)	0.37101 (6)	0.27384 (16)	0.0404 (4)
C13	0.5336 (2)	0.38298 (7)	0.20193 (19)	0.0527 (6)
C14	0.6730 (2)	0.35838 (9)	0.2500 (2)	0.0600 (6)
C15	0.71005 (19)	0.32105 (8)	0.3721 (2)	0.0553 (6)
C16	0.60713 (17)	0.30859 (7)	0.44645 (17)	0.0445 (5)
C17	0.27898 (19)	0.39760 (7)	0.21582 (17)	0.0478 (5)
C18	0.15052 (19)	0.37247 (7)	0.21404 (18)	0.0484 (5)
C19	0.13042 (16)	0.31254 (7)	0.26945 (16)	0.0402 (4)
C20	0.23460 (15)	0.28684 (6)	0.39198 (14)	0.0353 (4)
C21	0.00604 (17)	0.27797 (8)	0.19635 (18)	0.0523 (5)
C22	-0.01154 (19)	0.21998 (9)	0.2393 (2)	0.0582 (6)
C23	0.0936 (2)	0.19481 (8)	0.35653 (19)	0.0544 (6)
C24	0.21656 (18)	0.22797 (7)	0.43327 (17)	0.0447 (5)
H1	0.08630	0.41280	0.49030	0.0720*
H3	0.31830	0.49490	0.86420	0.0640*
H4	0.10710	0.50270	0.93670	0.0730*
H5	-0.11480	0.46610	0.78720	0.0800*
H6	-0.12530	0.42050	0.56520	0.0830*
H7A	0.33470	0.43590	0.51710	0.0670*
H7B	0.39350	0.49390	0.61070	0.0670*
H8	0.68500	0.31630	0.86690	0.0660*
H10A	0.46180	0.27230	0.64940	0.0490*
H10B	0.32350	0.30600	0.67030	0.0490*
H13	0.50970	0.40820	0.11960	0.0630*
H14	0.74230	0.36690	0.20030	0.0720*
H15	0.80430	0.30420	0.40460	0.0660*
H16	0.63290	0.28350	0.52900	0.0530*
H17	0.27440	0.43610	0.17600	0.0570*
H18	0.06540	0.39520	0.17370	0.0580*
H21	-0.06640	0.29470	0.11680	0.0630*
H22	-0.09480	0.19790	0.18860	0.0700*
H23	0.08250	0.15540	0.38470	0.0650*
H24	0.28760	0.21070	0.51300	0.0540*

Atomic displacement parameters (\AA^2)

	U^{11}	U^{22}	U^{33}	U^{12}	U^{13}	U^{23}
N1	0.0535 (8)	0.0486 (7)	0.0494 (8)	-0.0117 (6)	0.0243 (7)	-0.0132 (6)
N2	0.0721 (11)	0.0676 (10)	0.0667 (10)	-0.0319 (8)	0.0284 (9)	-0.0278 (8)

N3	0.0584 (9)	0.0904 (12)	0.0560 (9)	-0.0262 (9)	0.0148 (8)	-0.0203 (9)
N4	0.0388 (6)	0.0403 (6)	0.0274 (6)	-0.0056 (5)	0.0084 (5)	-0.0010 (5)
C1	0.0747 (12)	0.0467 (9)	0.0548 (10)	0.0002 (8)	0.0122 (9)	-0.0074 (8)
C2	0.0605 (10)	0.0334 (7)	0.0510 (9)	0.0017 (7)	0.0203 (8)	-0.0009 (6)
C3	0.0587 (10)	0.0483 (9)	0.0551 (10)	-0.0030 (7)	0.0190 (8)	-0.0087 (7)
C4	0.0681 (12)	0.0592 (10)	0.0615 (11)	0.0058 (9)	0.0305 (10)	-0.0041 (8)
C5	0.0601 (12)	0.0564 (11)	0.0906 (15)	0.0077 (9)	0.0329 (11)	0.0111 (10)
C6	0.0547 (11)	0.0542 (10)	0.0881 (15)	-0.0045 (8)	0.0056 (10)	0.0011 (10)
C7	0.0755 (12)	0.0450 (9)	0.0562 (10)	0.0010 (8)	0.0319 (9)	-0.0008 (7)
C8	0.0511 (9)	0.0718 (11)	0.0393 (8)	-0.0110 (8)	0.0085 (7)	-0.0070 (8)
C9	0.0454 (8)	0.0498 (8)	0.0310 (7)	-0.0091 (6)	0.0164 (6)	-0.0051 (6)
C10	0.0476 (8)	0.0450 (8)	0.0285 (7)	-0.0077 (6)	0.0092 (6)	-0.0005 (6)
C11	0.0412 (7)	0.0350 (7)	0.0309 (7)	-0.0060 (5)	0.0108 (6)	-0.0053 (5)
C12	0.0506 (8)	0.0365 (7)	0.0350 (7)	-0.0059 (6)	0.0139 (7)	-0.0016 (6)
C13	0.0663 (11)	0.0538 (9)	0.0420 (9)	-0.0098 (8)	0.0222 (8)	0.0044 (7)
C14	0.0581 (11)	0.0758 (12)	0.0545 (10)	-0.0136 (9)	0.0297 (9)	-0.0049 (9)
C15	0.0427 (9)	0.0717 (11)	0.0528 (10)	-0.0017 (8)	0.0159 (8)	-0.0090 (8)
C16	0.0449 (8)	0.0506 (8)	0.0368 (8)	-0.0016 (7)	0.0101 (7)	-0.0024 (6)
C17	0.0645 (10)	0.0375 (8)	0.0393 (8)	0.0062 (7)	0.0123 (7)	0.0068 (6)
C18	0.0516 (9)	0.0478 (8)	0.0419 (8)	0.0150 (7)	0.0079 (7)	0.0031 (6)
C19	0.0362 (7)	0.0493 (8)	0.0352 (7)	0.0042 (6)	0.0106 (6)	-0.0033 (6)
C20	0.0364 (7)	0.0410 (7)	0.0293 (7)	-0.0022 (6)	0.0109 (6)	-0.0046 (5)
C21	0.0367 (8)	0.0746 (11)	0.0409 (8)	0.0023 (7)	0.0041 (7)	-0.0035 (8)
C22	0.0477 (9)	0.0767 (12)	0.0487 (10)	-0.0226 (8)	0.0118 (8)	-0.0122 (8)
C23	0.0641 (11)	0.0534 (9)	0.0448 (9)	-0.0206 (8)	0.0145 (8)	-0.0045 (7)
C24	0.0500 (9)	0.0468 (8)	0.0351 (8)	-0.0079 (7)	0.0090 (7)	0.0003 (6)

Geometric parameters (Å, °)

N1—N2	1.355 (2)	C19—C20	1.399 (2)
N1—C7	1.464 (2)	C19—C21	1.402 (2)
N1—C9	1.351 (2)	C20—C24	1.389 (2)
N2—N3	1.313 (3)	C21—C22	1.375 (3)
N3—C8	1.340 (3)	C22—C23	1.368 (3)
N4—C10	1.4634 (17)	C23—C24	1.385 (2)
N4—C11	1.4293 (19)	C1—H1	0.9300
N4—C20	1.4351 (18)	C3—H3	0.9300
C1—C2	1.382 (3)	C4—H4	0.9300
C1—C6	1.386 (3)	C5—H5	0.9300
C2—C3	1.387 (2)	C6—H6	0.9300
C2—C7	1.507 (3)	C7—H7A	0.9700
C3—C4	1.373 (3)	C7—H7B	0.9700
C4—C5	1.371 (3)	C8—H8	0.9300
C5—C6	1.373 (4)	C10—H10A	0.9700
C8—C9	1.365 (2)	C10—H10B	0.9700
C9—C10	1.493 (2)	C13—H13	0.9300
C11—C12	1.404 (2)	C14—H14	0.9300
C11—C16	1.390 (2)	C15—H15	0.9300

C12—C13	1.397 (2)	C16—H16	0.9300
C12—C17	1.464 (2)	C17—H17	0.9300
C13—C14	1.372 (3)	C18—H18	0.9300
C14—C15	1.378 (3)	C21—H21	0.9300
C15—C16	1.384 (2)	C22—H22	0.9300
C17—C18	1.330 (3)	C23—H23	0.9300
C18—C19	1.463 (2)	C24—H24	0.9300
N2—N1—C7	119.12 (13)	C20—C24—C23	120.48 (15)
N2—N1—C9	110.26 (13)	C2—C1—H1	120.00
C7—N1—C9	130.61 (14)	C6—C1—H1	120.00
N1—N2—N3	107.76 (15)	C2—C3—H3	120.00
N2—N3—C8	107.75 (16)	C4—C3—H3	120.00
C10—N4—C11	118.25 (12)	C3—C4—H4	120.00
C10—N4—C20	114.87 (11)	C5—C4—H4	120.00
C11—N4—C20	113.50 (11)	C4—C5—H5	120.00
C2—C1—C6	120.31 (18)	C6—C5—H5	120.00
C1—C2—C3	118.80 (17)	C1—C6—H6	120.00
C1—C2—C7	120.80 (15)	C5—C6—H6	120.00
C3—C2—C7	120.31 (16)	N1—C7—H7A	109.00
C2—C3—C4	120.55 (17)	N1—C7—H7B	109.00
C3—C4—C5	120.32 (18)	C2—C7—H7A	109.00
C4—C5—C6	119.96 (19)	C2—C7—H7B	109.00
C1—C6—C5	120.0 (2)	H7A—C7—H7B	108.00
N1—C7—C2	113.40 (14)	N3—C8—H8	125.00
N3—C8—C9	110.56 (17)	C9—C8—H8	125.00
N1—C9—C8	103.67 (14)	N4—C10—H10A	109.00
N1—C9—C10	126.54 (14)	N4—C10—H10B	109.00
C8—C9—C10	129.70 (15)	C9—C10—H10A	109.00
N4—C10—C9	113.52 (12)	C9—C10—H10B	109.00
N4—C11—C12	117.83 (13)	H10A—C10—H10B	108.00
N4—C11—C16	122.52 (12)	C12—C13—H13	119.00
C12—C11—C16	119.64 (14)	C14—C13—H13	119.00
C11—C12—C13	118.32 (15)	C13—C14—H14	120.00
C11—C12—C17	122.57 (14)	C15—C14—H14	120.00
C13—C12—C17	119.11 (14)	C14—C15—H15	120.00
C12—C13—C14	121.53 (16)	C16—C15—H15	120.00
C13—C14—C15	119.85 (18)	C11—C16—H16	120.00
C14—C15—C16	120.07 (17)	C15—C16—H16	120.00
C11—C16—C15	120.59 (15)	C12—C17—H17	117.00
C12—C17—C18	126.86 (14)	C18—C17—H17	117.00
C17—C18—C19	126.24 (16)	C17—C18—H18	117.00
C18—C19—C20	122.19 (14)	C19—C18—H18	117.00
C18—C19—C21	120.05 (14)	C19—C21—H21	119.00
C20—C19—C21	117.73 (14)	C22—C21—H21	119.00
N4—C20—C19	118.53 (12)	C21—C22—H22	120.00
N4—C20—C24	121.38 (12)	C23—C22—H22	120.00
C19—C20—C24	120.08 (14)	C22—C23—H23	120.00

C19—C21—C22	121.63 (16)	C24—C23—H23	120.00
C21—C22—C23	119.93 (17)	C20—C24—H24	120.00
C22—C23—C24	120.09 (17)	C23—C24—H24	120.00
C7—N1—N2—N3	178.33 (15)	N3—C8—C9—C10	-175.78 (16)
C9—N1—N2—N3	-0.1 (2)	N1—C9—C10—N4	48.1 (2)
N2—N1—C7—C2	-97.83 (18)	C8—C9—C10—N4	-136.11 (17)
C9—N1—C7—C2	80.2 (2)	N4—C11—C12—C13	177.82 (13)
N2—N1—C9—C8	-0.40 (18)	N4—C11—C12—C17	-2.8 (2)
N2—N1—C9—C10	176.29 (15)	C16—C11—C12—C13	-0.6 (2)
C7—N1—C9—C8	-178.59 (17)	C16—C11—C12—C17	178.82 (14)
C7—N1—C9—C10	-1.9 (3)	N4—C11—C16—C15	-178.14 (14)
N1—N2—N3—C8	0.6 (2)	C12—C11—C16—C15	0.1 (2)
N2—N3—C8—C9	-0.9 (2)	C11—C12—C13—C14	0.6 (2)
C11—N4—C10—C9	56.44 (17)	C17—C12—C13—C14	-178.83 (16)
C20—N4—C10—C9	-165.14 (13)	C11—C12—C17—C18	-35.1 (2)
C10—N4—C11—C12	-150.96 (13)	C13—C12—C17—C18	144.31 (17)
C10—N4—C11—C16	27.36 (19)	C12—C13—C14—C15	-0.2 (3)
C20—N4—C11—C12	70.09 (15)	C13—C14—C15—C16	-0.3 (3)
C20—N4—C11—C16	-111.60 (15)	C14—C15—C16—C11	0.3 (3)
C10—N4—C20—C19	146.64 (13)	C12—C17—C18—C19	-0.3 (3)
C10—N4—C20—C24	-31.99 (19)	C17—C18—C19—C20	33.4 (2)
C11—N4—C20—C19	-72.97 (16)	C17—C18—C19—C21	-144.41 (17)
C11—N4—C20—C24	108.41 (15)	C18—C19—C20—N4	6.5 (2)
C6—C1—C2—C3	0.8 (2)	C18—C19—C20—C24	-174.85 (15)
C6—C1—C2—C7	-175.74 (16)	C21—C19—C20—N4	-175.64 (13)
C2—C1—C6—C5	0.0 (3)	C21—C19—C20—C24	3.0 (2)
C1—C2—C3—C4	-1.0 (2)	C18—C19—C21—C22	175.63 (16)
C7—C2—C3—C4	175.58 (15)	C20—C19—C21—C22	-2.3 (2)
C1—C2—C7—N1	-119.86 (17)	N4—C20—C24—C23	176.75 (15)
C3—C2—C7—N1	63.67 (18)	C19—C20—C24—C23	-1.9 (2)
C2—C3—C4—C5	0.4 (3)	C19—C21—C22—C23	0.3 (3)
C3—C4—C5—C6	0.4 (3)	C21—C22—C23—C24	0.9 (3)
C4—C5—C6—C1	-0.6 (3)	C22—C23—C24—C20	-0.2 (3)
N3—C8—C9—N1	0.77 (19)		

Hydrogen-bond geometry (Å, °)

D—H···A	D—H	H···A	D···A	D—H···A
C7—H7A···N4	0.97	2.56	3.173 (2)	121