

Acta Crystallographica Section E

## Structure Reports

Online

ISSN 1600-5368

## 3-[(1-Benzyl-1*H*-1,2,3-triazol-4-yl)-methyl]-1,5-dimethyl-1,5-benzodiazepine-2,4-dione

R. Dardouri,<sup>a</sup> Y. Kandri Rodi,<sup>a</sup> Natalie Saffon,<sup>b</sup> El Mokhtar Essassi<sup>c</sup> and Seik Weng Ng<sup>d\*</sup>

<sup>a</sup>Laboratoire de Chimie Organique Appliquée, Faculté des Sciences et Techniques, Université Sidi Mohamed Ben Abdallah, Fés, Morocco, <sup>b</sup>Service Commun Rayons-X FR2599, Université Paul Sabatier Bâtiment 2R1, 118 Route de Narbonne, Toulouse, France, <sup>c</sup>Laboratoire de Chimie Organique Hétérocyclique, Pôle de Compétences Pharmacochimie, Université Mohammed V-Agdal, BP 1014 Avenue Ibn Batout, Rabat, Morocco, and <sup>d</sup>Department of Chemistry, University of Malaya, 50603 Kuala Lumpur, Malaysia

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

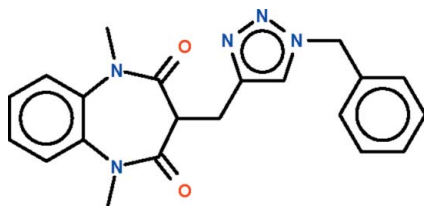
Received 8 February 2010; accepted 9 February 2010

Key indicators: single-crystal X-ray study;  $T = 293$  K; mean  $\sigma(\text{C}-\text{C}) = 0.004$  Å;  $R$  factor = 0.042;  $wR$  factor = 0.141; data-to-parameter ratio = 12.9.

The title compound,  $\text{C}_{21}\text{H}_{21}\text{N}_5\text{O}_2$ , is a 1,4-dimethyl-1,2,3-triazole having dimethylbenzodiazepindione and phenyl substituents on each methyl group; the substituents are positioned on opposite sides of the five-membered ring. The seven-membered fused-ring of the larger substituent adopts a boat-shaped conformation (with the methine C atom as the prow).

### Related literature

For the crystal structure of 1,5-dimethyl-1,5-benzodiazepin-2,4-dione, see: Mondieig *et al.* (2005).



### Experimental

#### Crystal data

$\text{C}_{21}\text{H}_{21}\text{N}_5\text{O}_2$   
 $M_r = 375.43$   
 Triclinic,  $P\bar{1}$   
 $a = 8.3380$  (3) Å  
 $b = 9.1033$  (3) Å  
 $c = 13.4796$  (4) Å  
 $\alpha = 95.385$  (2)°  
 $\beta = 107.840$  (2)°  
 $\gamma = 101.768$  (2)°  
 $V = 939.97$  (5) Å<sup>3</sup>  
 $Z = 2$   
 Mo  $K\alpha$  radiation  
 $\mu = 0.09$  mm<sup>-1</sup>  
 $T = 293$  K  
 $0.28 \times 0.18 \times 0.08$  mm

#### Data collection

Bruker APEXII diffractometer  
 7973 measured reflections  
 3279 independent reflections  
 2132 reflections with  $I > 2\sigma(I)$   
 $R_{\text{int}} = 0.037$

#### Refinement

$R[F^2 > 2\sigma(F^2)] = 0.042$   
 $wR(F^2) = 0.141$   
 $S = 1.05$   
 3279 reflections  
 255 parameters  
 H-atom parameters constrained  
 $\Delta\rho_{\text{max}} = 0.22$  e Å<sup>-3</sup>  
 $\Delta\rho_{\text{min}} = -0.22$  e Å<sup>-3</sup>

Data collection: *APEX2* (Bruker, 2005); cell refinement: *SAINTE* (Bruker, 2005); data reduction: *SAINTE*; 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).

The authors thank the Université Sidi Mohamed Ben Abdallah, the Université Mohammed V-Agdal and the University of Malaya for supporting this study.

Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: BT5192).

### References

- Barbour, L. J. (2001). *J. Supramol. Chem.* **1**, 189–191.  
 Bruker (2005). *APEX2* and *SAINTE*. Bruker AXS Inc., Madison, Wisconsin, USA.  
 Mondieig, M., Négrier, Ph., Léger, J. M., Benali, B., Lazar, Z., Elassyry, A., Jarmouni, C., Lakhri, B. & Massoui, M. (2005). *Anal. Sci. X-Ray Struct. Anal. Online*, **21**, x145–x146.  
 Sheldrick, G. M. (2008). *Acta Cryst.* **A64**, 112–122.  
 Westrip, S. P. (2010). *pubCIF*. In preparation.

## supporting information

*Acta Cryst.* (2010). E66, o632 [doi:10.1107/S1600536810005313]

### 3-[(1-Benzyl-1*H*-1,2,3-triazol-4-yl)methyl]-1,5-dimethyl-1,5-benzodiazepine-2,4-dione

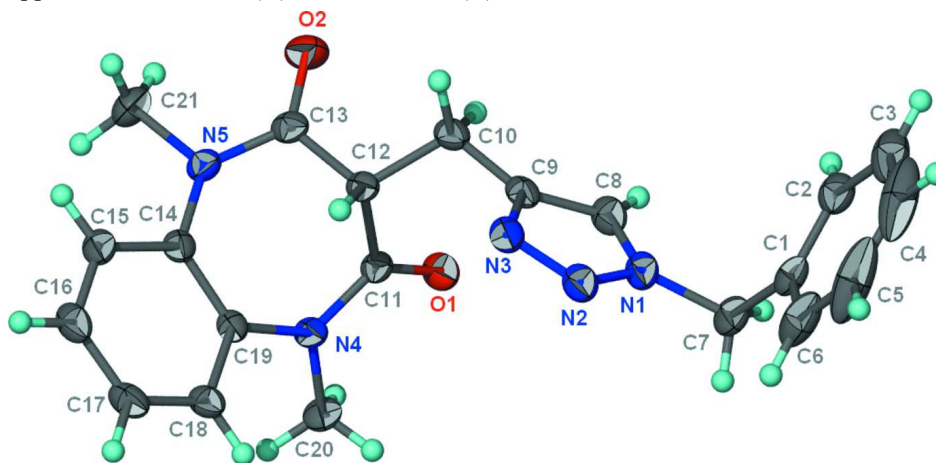
R. Dardouri, Y. Kandri Rodi, Natalie Saffon, El Mokhtar Essassi and Seik Weng Ng

#### S1. Experimental

To a solution of 1,5-dimethyl-3-propargyl-1,5-benzodiazepine-2,4-dione (1 mmol) in *t*-butyl alcohol/water (1/2, 8 ml) was added copper sulfate pentahydrate (1 mmol), sodium ascorbate (2 mmol) and benzyl azide (5 mmol). The mixture was stirred for 8 h. The solution was then diluted with water (20 ml) and the organic compound extracted with ethyl acetate (2 × 20 ml). The extracts were washed with brine and dried over sodium sulfate. The compound was recrystallized from ether to give colorless crystals.

#### S2. Refinement

Carbon-bound H atoms were placed in calculated positions (C—H 0.93–0.98 Å) and were included in the refinement in the riding model approximation, with  $U(\text{H})$  set to 1.2–1.5 $U(\text{C})$ .



**Figure 1**

Thermal ellipsoid plot (Barbour, 2001) of  $\text{C}_{21}\text{H}_{21}\text{N}_5\text{O}_2$  at the 50% probability level; hydrogen atoms are drawn as arbitrary radius.

### 3-[(1-Benzyl-1*H*-1,2,3-triazol-4-yl)methyl]-1,5-dimethyl-1,5-benzodiazepine-2,4-dione

#### Crystal data

$\text{C}_{21}\text{H}_{21}\text{N}_5\text{O}_2$

$M_r = 375.43$

Triclinic,  $P\bar{1}$

Hall symbol:  $-P\ 1$

$a = 8.3380(3)$  Å

$b = 9.1033(3)$  Å

$c = 13.4796(4)$  Å

$\alpha = 95.385(2)^\circ$

$\beta = 107.840(2)^\circ$

$\gamma = 101.768(2)^\circ$

$V = 939.97 (5) \text{ \AA}^3$   
 $Z = 2$   
 $F(000) = 396$   
 $D_x = 1.326 \text{ Mg m}^{-3}$   
 Mo  $K\alpha$  radiation,  $\lambda = 0.71073 \text{ \AA}$   
 Cell parameters from 1894 reflections

$\theta = 2.3\text{--}26.8^\circ$   
 $\mu = 0.09 \text{ mm}^{-1}$   
 $T = 293 \text{ K}$   
 Block, colourless  
 $0.28 \times 0.18 \times 0.08 \text{ mm}$

*Data collection*

Bruker APEXII  
 diffractometer  
 Radiation source: fine-focus sealed tube  
 Graphite monochromator  
 $\varphi$  and  $\omega$  scans  
 7973 measured reflections  
 3279 independent reflections

2132 reflections with  $I > 2\sigma(I)$   
 $R_{\text{int}} = 0.037$   
 $\theta_{\text{max}} = 25.0^\circ$ ,  $\theta_{\text{min}} = 1.6^\circ$   
 $h = -8 \rightarrow 9$   
 $k = -10 \rightarrow 10$   
 $l = -16 \rightarrow 15$

*Refinement*

Refinement on  $F^2$   
 Least-squares matrix: full  
 $R[F^2 > 2\sigma(F^2)] = 0.042$   
 $wR(F^2) = 0.141$   
 $S = 1.05$   
 3279 reflections  
 255 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  
 $w = 1/[\sigma^2(F_o^2) + (0.076P)^2]$   
 where  $P = (F_o^2 + 2F_c^2)/3$   
 $(\Delta/\sigma)_{\text{max}} = 0.001$   
 $\Delta\rho_{\text{max}} = 0.22 \text{ e \AA}^{-3}$   
 $\Delta\rho_{\text{min}} = -0.22 \text{ e \AA}^{-3}$

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

	<i>x</i>	<i>y</i>	<i>z</i>	$U_{\text{iso}}^*/U_{\text{eq}}$
O1	0.50707 (19)	0.14271 (17)	0.38773 (13)	0.0383 (4)
O2	0.8254 (2)	0.2153 (2)	0.23619 (15)	0.0501 (5)
N1	0.8448 (2)	0.2106 (2)	0.71289 (16)	0.0366 (5)
N2	0.9062 (2)	0.3607 (2)	0.71872 (16)	0.0376 (5)
N3	0.9231 (2)	0.3802 (2)	0.62613 (16)	0.0359 (5)
N4	0.4763 (2)	0.37357 (19)	0.34845 (14)	0.0283 (4)
N5	0.6925 (2)	0.4101 (2)	0.21476 (15)	0.0310 (5)
C1	0.9776 (3)	0.1642 (3)	0.89419 (19)	0.0359 (6)
C2	1.0765 (3)	0.0598 (3)	0.8911 (2)	0.0409 (6)
H2	1.0396	-0.0190	0.8339	0.049*
C3	1.2289 (4)	0.0720 (4)	0.9720 (3)	0.0650 (9)
H3	1.2943	0.0013	0.9694	0.078*
C4	1.2843 (5)	0.1865 (6)	1.0557 (3)	0.0935 (15)
H4	1.3868	0.1928	1.1106	0.112*
C5	1.1909 (6)	0.2932 (5)	1.0604 (3)	0.0947 (16)
H5	1.2312	0.3731	1.1171	0.114*
C6	1.0353 (5)	0.2807 (3)	0.9796 (2)	0.0610 (9)
H6	0.9699	0.3512	0.9831	0.073*
C7	0.8123 (3)	0.1525 (3)	0.8049 (2)	0.0442 (7)
H7A	0.7476	0.0468	0.7836	0.053*
H7B	0.7415	0.2096	0.8294	0.053*

C8	0.8216 (3)	0.1340 (3)	0.6177 (2)	0.0364 (6)
H8	0.7799	0.0296	0.5944	0.044*
C9	0.8726 (3)	0.2424 (3)	0.56202 (19)	0.0321 (6)
C10	0.8729 (3)	0.2271 (3)	0.45103 (19)	0.0346 (6)
H10A	0.8279	0.1209	0.4181	0.042*
H10B	0.9915	0.2590	0.4515	0.042*
C11	0.5716 (3)	0.2698 (2)	0.37552 (18)	0.0282 (5)
C12	0.7630 (3)	0.3225 (2)	0.38576 (18)	0.0284 (5)
H12	0.8070	0.4292	0.4202	0.034*
C13	0.7673 (3)	0.3110 (3)	0.27368 (19)	0.0324 (6)
C14	0.6468 (3)	0.5362 (2)	0.26045 (17)	0.0286 (5)
C15	0.6992 (3)	0.6803 (3)	0.2368 (2)	0.0357 (6)
H15	0.7607	0.6919	0.1898	0.043*
C16	0.6620 (3)	0.8055 (3)	0.2814 (2)	0.0403 (6)
H16	0.6977	0.9004	0.2641	0.048*
C17	0.5715 (3)	0.7908 (3)	0.3521 (2)	0.0385 (6)
H17	0.5500	0.8760	0.3844	0.046*
C18	0.5137 (3)	0.6485 (2)	0.37394 (19)	0.0324 (5)
H18	0.4513	0.6384	0.4205	0.039*
C19	0.5468 (3)	0.5196 (2)	0.32765 (17)	0.0268 (5)
C20	0.2922 (3)	0.3329 (3)	0.3420 (2)	0.0364 (6)
H20A	0.2357	0.2351	0.2985	0.055*
H20B	0.2356	0.4080	0.3118	0.055*
H20C	0.2857	0.3293	0.4117	0.055*
C21	0.7053 (3)	0.4078 (3)	0.1087 (2)	0.0440 (7)
H21A	0.8197	0.4626	0.1138	0.066*
H21B	0.6207	0.4549	0.0672	0.066*
H21C	0.6841	0.3044	0.0756	0.066*

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

	$U^{11}$	$U^{22}$	$U^{33}$	$U^{12}$	$U^{13}$	$U^{23}$
O1	0.0331 (9)	0.0258 (9)	0.0594 (12)	0.0034 (7)	0.0207 (8)	0.0141 (8)
O2	0.0635 (12)	0.0451 (11)	0.0596 (12)	0.0259 (9)	0.0373 (10)	0.0104 (9)
N1	0.0281 (10)	0.0379 (12)	0.0463 (13)	0.0062 (9)	0.0139 (9)	0.0187 (10)
N2	0.0316 (11)	0.0349 (12)	0.0476 (13)	0.0078 (9)	0.0133 (10)	0.0139 (9)
N3	0.0278 (10)	0.0370 (12)	0.0461 (13)	0.0085 (9)	0.0138 (9)	0.0160 (10)
N4	0.0219 (9)	0.0264 (10)	0.0388 (12)	0.0037 (8)	0.0138 (8)	0.0080 (8)
N5	0.0315 (10)	0.0314 (11)	0.0333 (11)	0.0061 (8)	0.0163 (9)	0.0067 (9)
C1	0.0399 (13)	0.0350 (14)	0.0344 (14)	-0.0005 (11)	0.0197 (11)	0.0095 (11)
C2	0.0387 (14)	0.0420 (15)	0.0435 (16)	0.0041 (11)	0.0176 (12)	0.0138 (12)
C3	0.0380 (16)	0.089 (2)	0.070 (2)	0.0062 (16)	0.0172 (16)	0.048 (2)
C4	0.061 (2)	0.113 (3)	0.060 (3)	-0.043 (2)	-0.0130 (18)	0.048 (3)
C5	0.138 (4)	0.069 (3)	0.0316 (19)	-0.049 (3)	0.014 (2)	0.0020 (17)
C6	0.099 (2)	0.0374 (16)	0.0501 (19)	-0.0039 (15)	0.0430 (19)	0.0055 (13)
C7	0.0399 (14)	0.0494 (16)	0.0526 (17)	0.0084 (12)	0.0261 (13)	0.0233 (13)
C8	0.0334 (13)	0.0277 (13)	0.0478 (16)	0.0042 (10)	0.0139 (12)	0.0108 (11)
C9	0.0200 (11)	0.0302 (13)	0.0494 (15)	0.0079 (9)	0.0128 (10)	0.0147 (11)

C10	0.0288 (12)	0.0313 (13)	0.0501 (16)	0.0102 (10)	0.0185 (11)	0.0132 (11)
C11	0.0291 (12)	0.0243 (12)	0.0338 (13)	0.0043 (9)	0.0153 (10)	0.0067 (9)
C12	0.0272 (11)	0.0234 (11)	0.0385 (14)	0.0054 (9)	0.0162 (10)	0.0074 (10)
C13	0.0292 (12)	0.0279 (13)	0.0432 (15)	0.0034 (10)	0.0190 (11)	0.0055 (11)
C14	0.0223 (11)	0.0300 (12)	0.0331 (13)	0.0059 (9)	0.0084 (10)	0.0081 (10)
C15	0.0267 (12)	0.0379 (14)	0.0472 (15)	0.0062 (10)	0.0170 (11)	0.0185 (12)
C16	0.0310 (13)	0.0294 (13)	0.0630 (18)	0.0065 (10)	0.0165 (12)	0.0194 (12)
C17	0.0321 (13)	0.0273 (13)	0.0577 (17)	0.0101 (10)	0.0153 (12)	0.0076 (11)
C18	0.0254 (11)	0.0316 (13)	0.0411 (14)	0.0088 (10)	0.0109 (10)	0.0068 (10)
C19	0.0229 (11)	0.0244 (12)	0.0322 (13)	0.0053 (9)	0.0078 (9)	0.0070 (9)
C20	0.0234 (12)	0.0421 (14)	0.0460 (15)	0.0032 (10)	0.0164 (11)	0.0116 (11)
C21	0.0493 (15)	0.0498 (16)	0.0386 (15)	0.0088 (12)	0.0242 (13)	0.0103 (12)

*Geometric parameters (Å, °)*

O1—C11	1.221 (2)	C7—H7B	0.9700
O2—C13	1.221 (3)	C8—C9	1.372 (3)
N1—C8	1.340 (3)	C8—H8	0.9300
N1—N2	1.344 (3)	C9—C10	1.490 (3)
N1—C7	1.470 (3)	C10—C12	1.531 (3)
N2—N3	1.322 (3)	C10—H10A	0.9700
N3—C9	1.362 (3)	C10—H10B	0.9700
N4—C11	1.361 (3)	C11—C12	1.528 (3)
N4—C19	1.429 (3)	C12—C13	1.517 (3)
N4—C20	1.477 (3)	C12—H12	0.9800
N5—C13	1.376 (3)	C14—C15	1.394 (3)
N5—C14	1.425 (3)	C14—C19	1.406 (3)
N5—C21	1.464 (3)	C15—C16	1.374 (3)
C1—C6	1.380 (4)	C15—H15	0.9300
C1—C2	1.385 (3)	C16—C17	1.385 (3)
C1—C7	1.503 (4)	C16—H16	0.9300
C2—C3	1.374 (4)	C17—C18	1.379 (3)
C2—H2	0.9300	C17—H17	0.9300
C3—C4	1.355 (6)	C18—C19	1.394 (3)
C3—H3	0.9300	C18—H18	0.9300
C4—C5	1.371 (6)	C20—H20A	0.9600
C4—H4	0.9300	C20—H20B	0.9600
C5—C6	1.390 (5)	C20—H20C	0.9600
C5—H5	0.9300	C21—H21A	0.9600
C6—H6	0.9300	C21—H21B	0.9600
C7—H7A	0.9700	C21—H21C	0.9600
C8—N1—N2	111.21 (19)	C12—C10—H10B	109.2
C8—N1—C7	129.2 (2)	H10A—C10—H10B	107.9
N2—N1—C7	119.6 (2)	O1—C11—N4	122.12 (19)
N3—N2—N1	106.65 (19)	O1—C11—C12	122.85 (19)
N2—N3—C9	109.22 (18)	N4—C11—C12	115.00 (18)
C11—N4—C19	123.05 (17)	C13—C12—C11	105.92 (18)

C11—N4—C20	117.89 (17)	C13—C12—C10	112.28 (18)
C19—N4—C20	119.06 (17)	C11—C12—C10	111.64 (17)
C13—N5—C14	122.66 (19)	C13—C12—H12	109.0
C13—N5—C21	116.48 (19)	C11—C12—H12	109.0
C14—N5—C21	118.77 (18)	C10—C12—H12	109.0
C6—C1—C2	118.8 (3)	O2—C13—N5	121.9 (2)
C6—C1—C7	120.7 (3)	O2—C13—C12	122.3 (2)
C2—C1—C7	120.4 (2)	N5—C13—C12	115.6 (2)
C3—C2—C1	120.4 (3)	C15—C14—C19	118.5 (2)
C3—C2—H2	119.8	C15—C14—N5	119.6 (2)
C1—C2—H2	119.8	C19—C14—N5	121.94 (19)
C4—C3—C2	120.4 (3)	C16—C15—C14	121.4 (2)
C4—C3—H3	119.8	C16—C15—H15	119.3
C2—C3—H3	119.8	C14—C15—H15	119.3
C3—C4—C5	120.7 (3)	C15—C16—C17	120.2 (2)
C3—C4—H4	119.7	C15—C16—H16	119.9
C5—C4—H4	119.7	C17—C16—H16	119.9
C4—C5—C6	119.4 (3)	C18—C17—C16	119.3 (2)
C4—C5—H5	120.3	C18—C17—H17	120.4
C6—C5—H5	120.3	C16—C17—H17	120.4
C1—C6—C5	120.3 (3)	C17—C18—C19	121.4 (2)
C1—C6—H6	119.9	C17—C18—H18	119.3
C5—C6—H6	119.9	C19—C18—H18	119.3
N1—C7—C1	112.38 (19)	C18—C19—C14	119.15 (19)
N1—C7—H7A	109.1	C18—C19—N4	119.24 (19)
C1—C7—H7A	109.1	C14—C19—N4	121.60 (19)
N1—C7—H7B	109.1	N4—C20—H20A	109.5
C1—C7—H7B	109.1	N4—C20—H20B	109.5
H7A—C7—H7B	107.9	H20A—C20—H20B	109.5
N1—C8—C9	105.3 (2)	N4—C20—H20C	109.5
N1—C8—H8	127.4	H20A—C20—H20C	109.5
C9—C8—H8	127.4	H20B—C20—H20C	109.5
N3—C9—C8	107.7 (2)	N5—C21—H21A	109.5
N3—C9—C10	122.0 (2)	N5—C21—H21B	109.5
C8—C9—C10	130.3 (2)	H21A—C21—H21B	109.5
C9—C10—C12	112.07 (18)	N5—C21—H21C	109.5
C9—C10—H10A	109.2	H21A—C21—H21C	109.5
C12—C10—H10A	109.2	H21B—C21—H21C	109.5
C9—C10—H10B	109.2		
C8—N1—N2—N3	-0.3 (2)	N4—C11—C12—C10	160.55 (19)
C7—N1—N2—N3	179.89 (18)	C9—C10—C12—C13	178.25 (18)
N1—N2—N3—C9	0.0 (2)	C9—C10—C12—C11	-63.0 (2)
C6—C1—C2—C3	0.4 (3)	C14—N5—C13—O2	-170.7 (2)
C7—C1—C2—C3	179.0 (2)	C21—N5—C13—O2	-7.4 (3)
C1—C2—C3—C4	-0.2 (4)	C14—N5—C13—C12	12.8 (3)
C2—C3—C4—C5	-0.9 (5)	C21—N5—C13—C12	176.14 (18)
C3—C4—C5—C6	1.8 (5)	C11—C12—C13—O2	-109.6 (2)

---

C2—C1—C6—C5	0.5 (4)	C10—C12—C13—O2	12.5 (3)
C7—C1—C6—C5	-178.1 (2)	C11—C12—C13—N5	66.9 (2)
C4—C5—C6—C1	-1.6 (5)	C10—C12—C13—N5	-171.04 (18)
C8—N1—C7—C1	110.1 (3)	C13—N5—C14—C15	130.3 (2)
N2—N1—C7—C1	-70.1 (3)	C21—N5—C14—C15	-32.6 (3)
C6—C1—C7—N1	100.6 (3)	C13—N5—C14—C19	-50.9 (3)
C2—C1—C7—N1	-78.0 (3)	C21—N5—C14—C19	146.1 (2)
N2—N1—C8—C9	0.5 (2)	C19—C14—C15—C16	3.0 (3)
C7—N1—C8—C9	-179.7 (2)	N5—C14—C15—C16	-178.2 (2)
N2—N3—C9—C8	0.3 (2)	C14—C15—C16—C17	0.4 (4)
N2—N3—C9—C10	178.56 (19)	C15—C16—C17—C18	-2.4 (4)
N1—C8—C9—N3	-0.5 (2)	C16—C17—C18—C19	1.0 (3)
N1—C8—C9—C10	-178.5 (2)	C17—C18—C19—C14	2.4 (3)
N3—C9—C10—C12	-56.4 (3)	C17—C18—C19—N4	-176.7 (2)
C8—C9—C10—C12	121.4 (2)	C15—C14—C19—C18	-4.3 (3)
C19—N4—C11—O1	-176.2 (2)	N5—C14—C19—C18	176.90 (19)
C20—N4—C11—O1	4.7 (3)	C15—C14—C19—N4	174.74 (18)
C19—N4—C11—C12	1.9 (3)	N5—C14—C19—N4	-4.0 (3)
C20—N4—C11—C12	-177.20 (19)	C11—N4—C19—C18	-132.9 (2)
O1—C11—C12—C13	101.1 (2)	C20—N4—C19—C18	46.1 (3)
N4—C11—C12—C13	-76.9 (2)	C11—N4—C19—C14	48.0 (3)
O1—C11—C12—C10	-21.4 (3)	C20—N4—C19—C14	-132.9 (2)

---