

2-[[2-Hydroxy-3,5-dimethylbenzyl)-(methyl)amino]methyl]-4,6-dimethylphenol

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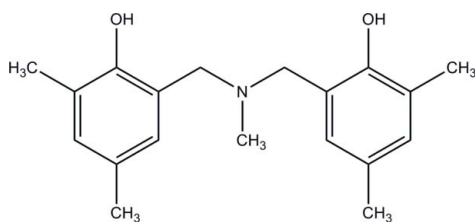
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Key indicators: single-crystal X-ray study; $T = 296$ K; mean $\sigma(\text{C}-\text{C}) = 0.003$ Å; R factor = 0.050; wR factor = 0.182; data-to-parameter ratio = 13.2.

In the title compound, $\text{C}_{19}\text{H}_{25}\text{NO}_2$, the dihedral angle between the benzene rings is $53.15(8)^\circ$. One of the $-\text{OH}$ groups forms an intramolecular $\text{O}-\text{H}\cdots\text{N}$ link, generating an $S(6)$ ring. The other $-\text{OH}$ group forms an intermolecular $\text{O}-\text{H}\cdots\text{N}$ hydrogen bond in the crystal, generating centrosymmetric $R_2^2(20)$ loops.

Related literature

For the synthesis, see: Chirachanchai *et al.* (2009). For metal-responsive properties of N,N -bis(2-hydroxybenzyl)alkylamines, see: Veranitisagul *et al.* (2011). For the use of N,N -bis(2-hydroxybenzyl)alkylamines in the synthesis of macrocyclic molecules, see: Rungsimanon *et al.* (2008).



Experimental

Crystal data

$\text{C}_{19}\text{H}_{25}\text{NO}_2$
 $M_r = 299.40$
Triclinic, $P\bar{1}$
 $a = 5.4598(4)$ Å
 $b = 12.3285(12)$ Å
 $c = 13.0441(13)$ Å
 $\alpha = 95.412(3)^\circ$
 $\beta = 96.482(2)^\circ$
 $\gamma = 94.238(2)^\circ$
 $V = 865.33(14)$ Å³
 $Z = 2$
Mo $K\alpha$ radiation
 $\mu = 0.07$ mm⁻¹
 $T = 296$ K
 $0.52 \times 0.30 \times 0.24$ mm

Data collection

Siemens P4 diffractometer
6613 measured reflections
3944 independent reflections
2722 reflections with $I > 2\sigma(I)$
 $R_{\text{int}} = 0.021$

Refinement

$R[F^2 > 2\sigma(F^2)] = 0.050$
 $wR(F^2) = 0.182$
 $S = 1.06$
3944 reflections
299 parameters
All H-atom parameters refined
 $\Delta\rho_{\text{max}} = 0.27$ e Å⁻³
 $\Delta\rho_{\text{min}} = -0.26$ e Å⁻³

Table 1

Hydrogen-bond geometry (Å, °).

$D-\text{H}\cdots A$	$D-\text{H}$	$\text{H}\cdots A$	$D\cdots A$	$D-\text{H}\cdots A$
$\text{O1}-\text{H}'\cdots\text{N}$	1.03 (3)	1.71 (3)	2.6895 (18)	156 (2)
$\text{O2}-\text{H}''\cdots\text{O1}^i$	0.94 (3)	2.02 (4)	2.9114 (18)	158 (2)

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

Data collection: *XSCANS* (Siemens, 1992); cell refinement: *XSCANS*; data reduction: *XSCANS*; program(s) used to solve structure: *SHELXS97* (Sheldrick, 2008); program(s) used to refine structure: *SHELXL97* (Sheldrick, 2008); molecular graphics: *SHELXTL* (Sheldrick, 2008); software used to prepare material for publication: *SHELXL97*.

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Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: HB6793).

References

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supplementary materials

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2-[[2-Hydroxy-3,5-dimethylbenzyl)(methyl)amino]methyl]-4,6-dimethylphenol

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Experimental

The preparation of the title compound was reported elsewhere (Chirachanchai *et al.*, 2009). Colorless blocks were recrystallized from 2-propanol solution.

Refinement

All H atoms were located in difference maps and freely refined.

Computing details

Data collection: *XSCANS* (Siemens, 1992); cell refinement: *XSCANS* (Siemens, 1992); data reduction: *XSCANS* (Siemens, 1992); program(s) used to solve structure: *SHELXS97* (Sheldrick, 2008); program(s) used to refine structure: *SHELXL97* (Sheldrick, 2008); molecular graphics: *SHELXTL* (Sheldrick, 2008); software used to prepare material for publication: *SHELXL97* (Sheldrick, 2008).

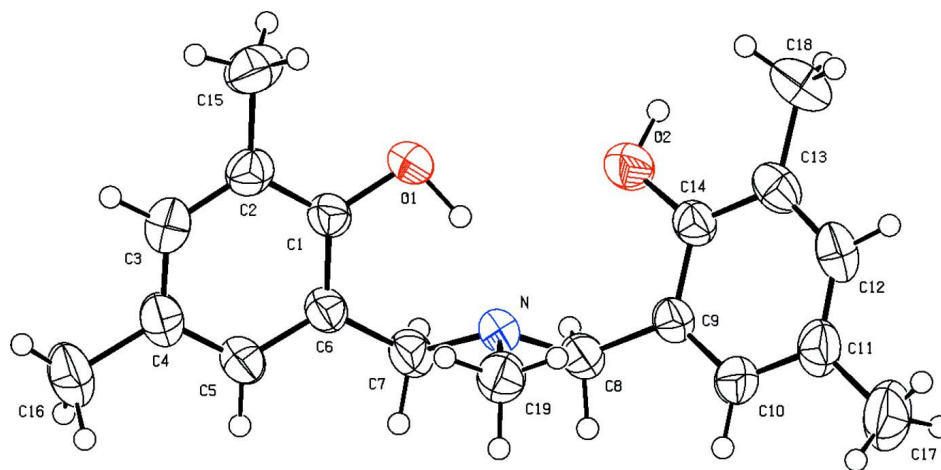
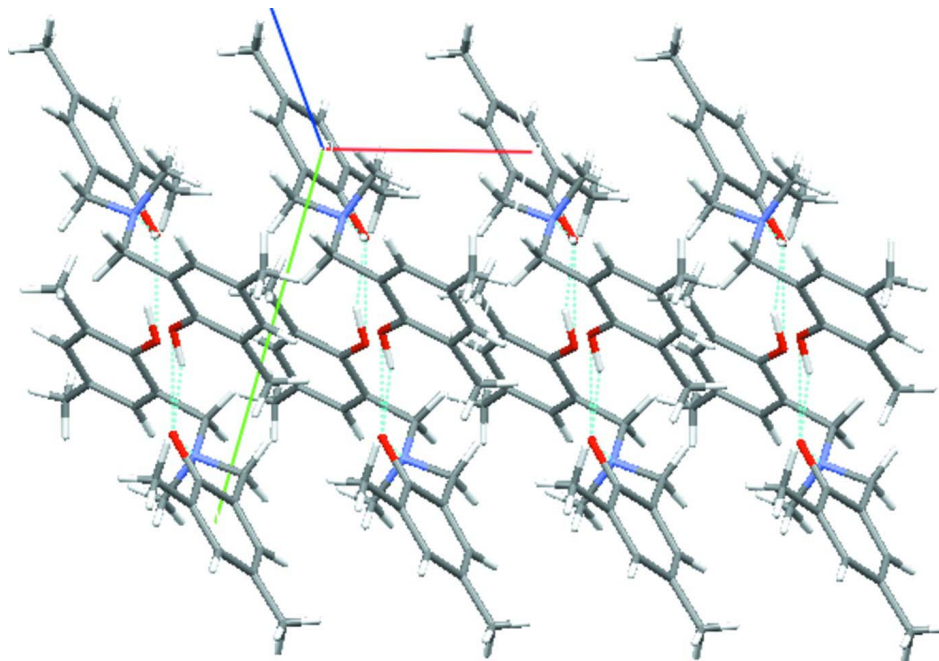


Figure 1

Molecular structure of the title compound (arbitrary spheres for the H atoms).

**Figure 2**

The packing structure of compound (Hydrogen bonds indicated by dash lines).

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Crystal data

$C_{19}H_{25}NO_2$

$M_r = 299.40$

Triclinic, $P\bar{1}$

$a = 5.4598$ (4) Å

$b = 12.3285$ (12) Å

$c = 13.0441$ (13) Å

$\alpha = 95.412$ (3)°

$\beta = 96.482$ (2)°

$\gamma = 94.238$ (2)°

$V = 865.33$ (14) Å³

$Z = 2$

$F(000) = 324$

$D_x = 1.149$ Mg m⁻³

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

Cell parameters from 2370 reflections

$\theta = 3.2$ – 27.2 °

$\mu = 0.07$ mm⁻¹

$T = 296$ K

Block, colorless

$0.52 \times 0.30 \times 0.24$ mm

Data collection

Siemens P4

diffractometer

Radiation source: fine-focus sealed tube

Graphite monochromator

ω scans

6613 measured reflections

3944 independent reflections

2722 reflections with $I > 2\sigma(I)$

$R_{int} = 0.021$

$\theta_{max} = 27.6$ °, $\theta_{min} = 1.6$ °

$h = -6 \rightarrow 7$

$k = -16 \rightarrow 15$

$l = -16 \rightarrow 16$

Refinement

Refinement on F^2

Least-squares matrix: full

$R[F^2 > 2\sigma(F^2)] = 0.050$

$wR(F^2) = 0.182$

$S = 1.06$

3944 reflections

299 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
 All H-atom parameters refined

$$w = 1/[\sigma^2(F_o^2) + (0.1149P)^2]$$

where $P = (F_o^2 + 2F_c^2)/3$
 $(\Delta/\sigma)_{\max} < 0.001$
 $\Delta\rho_{\max} = 0.27 \text{ e } \text{Å}^{-3}$
 $\Delta\rho_{\min} = -0.26 \text{ e } \text{Å}^{-3}$

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 (Å²)

	<i>x</i>	<i>y</i>	<i>z</i>	$U_{\text{iso}}^*/U_{\text{eq}}$
O1	0.5039 (2)	0.38818 (10)	0.16018 (10)	0.0517 (3)
N	0.2371 (2)	0.21998 (11)	0.04228 (10)	0.0404 (3)
C1	0.4085 (3)	0.34523 (12)	0.24228 (13)	0.0427 (4)
C14	0.4502 (3)	0.30149 (13)	-0.15535 (12)	0.0428 (4)
C10	0.3116 (4)	0.11247 (15)	-0.20468 (13)	0.0532 (4)
C2	0.5258 (3)	0.37697 (14)	0.34231 (14)	0.0479 (4)
C6	0.1937 (3)	0.27292 (13)	0.22555 (12)	0.0423 (4)
C9	0.2935 (3)	0.20900 (14)	-0.14369 (12)	0.0435 (4)
C3	0.4254 (3)	0.33434 (15)	0.42452 (14)	0.0529 (4)
C7	0.0629 (3)	0.24498 (16)	0.11772 (13)	0.0487 (4)
C5	0.1029 (3)	0.23192 (15)	0.31059 (14)	0.0496 (4)
C13	0.6237 (3)	0.29546 (15)	-0.22569 (14)	0.0490 (4)
C8	0.1141 (3)	0.21588 (16)	-0.06464 (13)	0.0472 (4)
C11	0.4815 (4)	0.10371 (16)	-0.27587 (14)	0.0571 (5)
C4	0.2141 (3)	0.26180 (15)	0.41101 (14)	0.0529 (4)
C12	0.6338 (4)	0.19581 (17)	-0.28429 (14)	0.0556 (5)
C19	0.3486 (4)	0.11876 (15)	0.06030 (16)	0.0532 (4)
C16	0.1053 (6)	0.2193 (3)	0.50252 (19)	0.0796 (7)
C15	0.7506 (4)	0.45821 (19)	0.3588 (2)	0.0640 (5)
C18	0.7977 (4)	0.3916 (2)	-0.2386 (2)	0.0651 (6)
C17	0.4954 (9)	-0.0025 (2)	-0.3427 (2)	0.0933 (9)
O2	0.4257 (2)	0.39465 (10)	-0.09216 (10)	0.0585 (4)
H5	-0.048 (3)	0.1827 (16)	0.2992 (14)	0.052 (5)*
H12	0.751 (4)	0.1965 (19)	-0.3286 (19)	0.079 (7)*
H7B	-0.068 (4)	0.1831 (17)	0.1203 (15)	0.061 (5)*
H10	0.205 (4)	0.0478 (19)	-0.1977 (17)	0.067 (6)*
H3	0.510 (4)	0.353 (2)	0.497 (2)	0.083 (7)*
H19C	0.222 (4)	0.0535 (19)	0.0524 (17)	0.073 (6)*
H8B	-0.017 (4)	0.1503 (18)	-0.0811 (16)	0.066 (6)*
H8A	0.020 (3)	0.2867 (16)	-0.0664 (15)	0.056 (5)*
H19B	0.430 (4)	0.1259 (18)	0.1319 (19)	0.069 (6)*
H16A	-0.068 (8)	0.216 (4)	0.490 (3)	0.167 (16)*

H19A	0.466 (4)	0.1081 (18)	0.0130 (17)	0.069 (6)*
H18B	0.855 (4)	0.4335 (17)	-0.1729 (18)	0.059 (6)*
H7A	-0.030 (4)	0.3078 (17)	0.0938 (15)	0.060 (5)*
H17A	0.644 (8)	-0.001 (4)	-0.363 (4)	0.155 (17)*
H18A	0.944 (5)	0.369 (2)	-0.257 (2)	0.091 (8)*
H15B	0.827 (5)	0.459 (2)	0.433 (3)	0.110 (9)*
H15C	0.718 (4)	0.535 (2)	0.335 (2)	0.088 (7)*
H'	0.426 (5)	0.331 (2)	0.100 (2)	0.097 (8)*
H16C	0.188 (6)	0.241 (3)	0.565 (3)	0.142 (13)*
H18C	0.729 (4)	0.443 (2)	-0.276 (2)	0.086 (7)*
H''	0.483 (5)	0.457 (3)	-0.122 (2)	0.104 (9)*
H16B	0.079 (7)	0.133 (4)	0.490 (3)	0.139 (12)*
H17C	0.424 (9)	0.000 (4)	-0.409 (5)	0.184 (18)*
H15A	0.879 (5)	0.432 (2)	0.327 (2)	0.086 (8)*
H17B	0.490 (6)	-0.064 (3)	-0.304 (3)	0.136 (12)*

Atomic displacement parameters (\AA^2)

	U^{11}	U^{22}	U^{33}	U^{12}	U^{13}	U^{23}
O1	0.0599 (7)	0.0452 (7)	0.0506 (7)	-0.0098 (5)	0.0196 (6)	0.0038 (5)
N	0.0436 (7)	0.0421 (7)	0.0366 (7)	0.0005 (5)	0.0092 (5)	0.0067 (5)
C1	0.0477 (8)	0.0374 (8)	0.0446 (9)	0.0025 (6)	0.0148 (7)	0.0026 (6)
C14	0.0455 (8)	0.0447 (9)	0.0392 (8)	0.0025 (6)	0.0059 (6)	0.0098 (7)
C10	0.0697 (11)	0.0510 (10)	0.0369 (9)	-0.0053 (9)	0.0038 (8)	0.0053 (7)
C2	0.0483 (8)	0.0428 (9)	0.0521 (10)	0.0064 (7)	0.0093 (7)	-0.0029 (7)
C6	0.0434 (8)	0.0437 (9)	0.0415 (9)	0.0027 (6)	0.0124 (6)	0.0056 (7)
C9	0.0477 (8)	0.0474 (9)	0.0355 (8)	-0.0013 (7)	0.0050 (6)	0.0089 (6)
C3	0.0585 (10)	0.0568 (11)	0.0435 (10)	0.0127 (8)	0.0054 (8)	0.0006 (8)
C7	0.0412 (8)	0.0608 (11)	0.0445 (9)	-0.0020 (8)	0.0112 (7)	0.0062 (8)
C5	0.0514 (9)	0.0518 (10)	0.0479 (10)	-0.0001 (7)	0.0159 (8)	0.0083 (8)
C13	0.0454 (8)	0.0567 (10)	0.0489 (9)	0.0067 (7)	0.0072 (7)	0.0216 (8)
C8	0.0453 (8)	0.0563 (10)	0.0392 (9)	-0.0056 (8)	0.0053 (7)	0.0081 (7)
C11	0.0812 (12)	0.0549 (11)	0.0375 (9)	0.0118 (9)	0.0101 (8)	0.0082 (8)
C4	0.0618 (10)	0.0563 (10)	0.0444 (10)	0.0097 (8)	0.0168 (8)	0.0096 (8)
C12	0.0653 (11)	0.0656 (12)	0.0429 (10)	0.0187 (9)	0.0186 (8)	0.0174 (8)
C19	0.0667 (11)	0.0461 (10)	0.0479 (10)	0.0079 (8)	0.0072 (9)	0.0075 (8)
C16	0.0953 (18)	0.100 (2)	0.0474 (12)	-0.0027 (15)	0.0207 (12)	0.0215 (12)
C15	0.0553 (11)	0.0583 (13)	0.0727 (14)	-0.0043 (9)	0.0034 (10)	-0.0104 (10)
C18	0.0531 (11)	0.0650 (13)	0.0848 (17)	0.0039 (10)	0.0231 (11)	0.0303 (13)
C17	0.160 (3)	0.0665 (16)	0.0577 (15)	0.0170 (17)	0.0367 (17)	-0.0026 (12)
O2	0.0753 (8)	0.0424 (7)	0.0598 (8)	-0.0029 (6)	0.0221 (6)	0.0052 (6)

Geometric parameters (\AA , $^\circ$)

O1—C1	1.3750 (19)	C13—C12	1.393 (3)
O1—H'	1.04 (3)	C13—C18	1.498 (3)
N—C19	1.456 (2)	C8—H8B	1.03 (2)
N—C7	1.472 (2)	C8—H8A	1.05 (2)
N—C8	1.473 (2)	C11—C12	1.378 (3)
C1—C2	1.394 (2)	C11—C17	1.515 (3)

C1—C6	1.403 (2)	C4—C16	1.511 (3)
C14—O2	1.373 (2)	C12—H12	0.91 (2)
C14—C13	1.392 (2)	C19—H19C	1.01 (2)
C14—C9	1.405 (2)	C19—H19B	0.98 (2)
C10—C9	1.384 (2)	C19—H19A	0.94 (2)
C10—C11	1.387 (3)	C16—H16A	0.94 (4)
C10—H10	0.97 (2)	C16—H16C	0.89 (4)
C2—C3	1.387 (3)	C16—H16B	1.05 (4)
C2—C15	1.508 (3)	C15—H15B	1.01 (3)
C6—C5	1.387 (2)	C15—H15C	1.05 (3)
C6—C7	1.501 (2)	C15—H15A	0.92 (3)
C9—C8	1.501 (2)	C18—H18B	0.96 (2)
C3—C4	1.391 (3)	C18—H18A	0.92 (3)
C3—H3	1.00 (3)	C18—H18C	0.91 (3)
C7—H7B	1.01 (2)	C17—H17A	0.88 (4)
C7—H7A	1.01 (2)	C17—H17C	0.91 (6)
C5—C4	1.384 (3)	C17—H17B	0.96 (4)
C5—H5	0.973 (18)	O2—H''	0.95 (3)
C1—O1—H'	100.4 (15)	H8B—C8—H8A	107.3 (15)
C19—N—C7	111.00 (14)	C12—C11—C10	117.31 (17)
C19—N—C8	111.41 (14)	C12—C11—C17	121.5 (2)
C7—N—C8	110.75 (12)	C10—C11—C17	121.2 (2)
O1—C1—C2	118.74 (14)	C5—C4—C3	117.52 (16)
O1—C1—C6	120.42 (15)	C5—C4—C16	121.06 (19)
C2—C1—C6	120.82 (14)	C3—C4—C16	121.40 (19)
O2—C14—C13	123.18 (14)	C11—C12—C13	123.26 (16)
O2—C14—C9	116.30 (14)	C11—C12—H12	122.7 (15)
C13—C14—C9	120.50 (16)	C13—C12—H12	114.1 (15)
C9—C10—C11	122.18 (17)	N—C19—H19C	112.4 (12)
C9—C10—H10	120.0 (13)	N—C19—H19B	108.3 (13)
C11—C10—H10	117.8 (13)	H19C—C19—H19B	107.1 (18)
C3—C2—C1	118.13 (15)	N—C19—H19A	108.2 (13)
C3—C2—C15	121.91 (17)	H19C—C19—H19A	110.3 (18)
C1—C2—C15	119.93 (17)	H19B—C19—H19A	110.5 (18)
C5—C6—C1	118.57 (15)	C4—C16—H16A	109 (3)
C5—C6—C7	121.62 (14)	C4—C16—H16C	116 (2)
C1—C6—C7	119.77 (14)	H16A—C16—H16C	123 (3)
C10—C9—C14	118.83 (15)	C4—C16—H16B	109 (2)
C10—C9—C8	121.39 (15)	H16A—C16—H16B	84 (3)
C14—C9—C8	119.77 (15)	H16C—C16—H16B	111 (3)
C2—C3—C4	122.74 (17)	C2—C15—H15B	107.5 (17)
C2—C3—H3	119.9 (13)	C2—C15—H15C	114.4 (13)
C4—C3—H3	117.3 (13)	H15B—C15—H15C	116 (2)
N—C7—C6	111.73 (13)	C2—C15—H15A	111.8 (16)
N—C7—H7B	113.6 (11)	H15B—C15—H15A	98 (2)
C6—C7—H7B	107.5 (12)	H15C—C15—H15A	109 (2)
N—C7—H7A	107.2 (11)	C13—C18—H18B	111.5 (12)
C6—C7—H7A	111.3 (11)	C13—C18—H18A	110.3 (17)

H7B—C7—H7A	105.5 (16)	H18B—C18—H18A	101 (2)
C4—C5—C6	122.20 (16)	C13—C18—H18C	114.8 (15)
C4—C5—H5	119.1 (11)	H18B—C18—H18C	102 (2)
C6—C5—H5	118.7 (11)	H18A—C18—H18C	116 (2)
C14—C13—C12	117.91 (15)	C11—C17—H17A	107 (3)
C14—C13—C18	122.03 (18)	C11—C17—H17C	111 (3)
C12—C13—C18	120.06 (17)	H17A—C17—H17C	91 (3)
N—C8—C9	112.46 (12)	C11—C17—H17B	112 (2)
N—C8—H8B	110.9 (11)	H17A—C17—H17B	104 (4)
C9—C8—H8B	108.7 (11)	H17C—C17—H17B	127 (4)
N—C8—H8A	105.3 (11)	C14—O2—H''	110.3 (18)
C9—C8—H8A	112.1 (10)		
O1—C1—C2—C3	179.02 (15)	C1—C6—C5—C4	1.4 (3)
C6—C1—C2—C3	0.6 (2)	C7—C6—C5—C4	-176.34 (16)
O1—C1—C2—C15	0.9 (2)	O2—C14—C13—C12	178.87 (15)
C6—C1—C2—C15	-177.59 (17)	C9—C14—C13—C12	0.8 (2)
O1—C1—C6—C5	-179.66 (14)	O2—C14—C13—C18	-0.5 (3)
C2—C1—C6—C5	-1.2 (2)	C9—C14—C13—C18	-178.61 (17)
O1—C1—C6—C7	-1.9 (2)	C19—N—C8—C9	-65.34 (18)
C2—C1—C6—C7	176.55 (15)	C7—N—C8—C9	170.58 (14)
C11—C10—C9—C14	0.9 (3)	C10—C9—C8—N	105.66 (17)
C11—C10—C9—C8	-177.98 (17)	C14—C9—C8—N	-73.2 (2)
O2—C14—C9—C10	-179.40 (15)	C9—C10—C11—C12	-0.2 (3)
C13—C14—C9—C10	-1.2 (2)	C9—C10—C11—C17	-179.2 (2)
O2—C14—C9—C8	-0.5 (2)	C6—C5—C4—C3	-0.9 (3)
C13—C14—C9—C8	177.70 (14)	C6—C5—C4—C16	177.5 (2)
C1—C2—C3—C4	0.0 (3)	C2—C3—C4—C5	0.2 (3)
C15—C2—C3—C4	178.09 (18)	C2—C3—C4—C16	-178.2 (2)
C19—N—C7—C6	67.71 (18)	C10—C11—C12—C13	-0.3 (3)
C8—N—C7—C6	-167.98 (14)	C17—C11—C12—C13	178.8 (2)
C5—C6—C7—N	-136.72 (16)	C14—C13—C12—C11	0.0 (3)
C1—C6—C7—N	45.6 (2)	C18—C13—C12—C11	179.35 (19)

Hydrogen-bond geometry (Å, °)

<i>D</i> —H... <i>A</i>	<i>D</i> —H	H... <i>A</i>	<i>D</i> ... <i>A</i>	<i>D</i> —H... <i>A</i>
O1—H'...N	1.03 (3)	1.71 (3)	2.6895 (18)	156 (2)
O2—H''...O1 ⁱ	0.94 (3)	2.02 (4)	2.9114 (18)	158 (2)

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