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## Structure Reports

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## 2-Chloro-N-(2,4-dichlorophenyl)-acetamide

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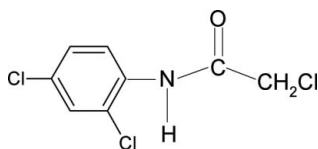
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 Key indicators: single-crystal X-ray study;  $T = 299$  K; mean  $\sigma(\text{C}-\text{C}) = 0.011$  Å;  $R$  factor = 0.080;  $wR$  factor = 0.196; data-to-parameter ratio = 14.9.

The structure of the title compound,  $\text{C}_8\text{H}_6\text{Cl}_3\text{NO}$ , contains two molecules in the asymmetric unit. In each independent molecule, the conformation of the N—H bond is almost *syn* to the *ortho*-chloro substituent and the conformation of the C=O bond is *anti* to the N—H bond. The molecules in the crystal structure are linked into supramolecular chains through N—H $\cdots$ O hydrogen bonding along the *a* axis.

### Related literature

For the preparation of the title compound, see: Shilpa & Gowda (2007); Pies *et al.* (1971). For related structures, see: Gowda, Foro & Fuess (2008); Gowda, Kožíšek *et al.* (2008); Gowda *et al.* (2009).



### Experimental

#### Crystal data

 $\text{C}_8\text{H}_6\text{Cl}_3\text{NO}$   
 $M_r = 238.49$ 

 Monoclinic,  $P2_1/c$   
 $a = 4.7457$  (5) Å

 $b = 12.9266$  (9) Å  
 $c = 31.879$  (4) Å  
 $\beta = 90.12$  (1)°  
 $V = 1955.6$  (3) Å<sup>3</sup>  
 $Z = 8$ 

 Mo  $K\alpha$  radiation  
 $\mu = 0.89$  mm<sup>-1</sup>  
 $T = 299$  K  
 $0.48 \times 0.05 \times 0.05$  mm

#### Data collection

 Oxford Diffraction Xcalibur single-crystal diffractometer with a Sapphire CCD detector  
 Absorption correction: multi-scan (*CrysAlis RED*; Oxford)

 Diffraction, 2007  
 $T_{\min} = 0.674$ ,  $T_{\max} = 0.957$   
 7393 measured reflections  
 3590 independent reflections  
 1475 reflections with  $I > 2\sigma(I)$   
 $R_{\text{int}} = 0.077$ 

#### Refinement

 $R[F^2 > 2\sigma(F^2)] = 0.080$   
 $wR(F^2) = 0.196$   
 $S = 0.91$   
 3590 reflections  
 241 parameters

 H atoms treated by a mixture of independent and constrained refinement  
 $\Delta\rho_{\max} = 0.44$  e Å<sup>-3</sup>  
 $\Delta\rho_{\min} = -0.39$  e Å<sup>-3</sup>

Table 1

Hydrogen-bond geometry (Å, °).

<i>D</i> —H $\cdots$ <i>A</i>	<i>D</i> —H	H $\cdots$ <i>A</i>	<i>D</i> $\cdots$ <i>A</i>	<i>D</i> —H $\cdots$ <i>A</i>
N1—H1N $\cdots$ O1 <sup>i</sup>	0.91 (7)	1.95 (7)	2.851 (7)	170 (6)
N2—H2N $\cdots$ O2 <sup>i</sup>	0.77 (7)	2.11 (7)	2.872 (7)	168 (8)

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

Data collection: *CrysAlis CCD* (Oxford Diffraction, 2004); cell refinement: *CrysAlis RED* (Oxford Diffraction, 2007); data reduction: *CrysAlis RED*; program(s) used to solve structure: *SHELXS97* (Sheldrick, 2008); program(s) used to refine structure: *SHELXL97* (Sheldrick, 2008); molecular graphics: *PLATON* (Spek, 2009); 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: TK2452).

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## supporting information

*Acta Cryst.* (2009). E65, o1367 [doi:10.1107/S1600536809018753]

## 2-Chloro-*N*-(2,4-dichlorophenyl)acetamide

**B. Thimme Gowda, Sabine Foro, Hiromitsu Terao and Hartmut Fuess**

### S1. Comment

As part of a study into the effect of ring- and side-chain substitutions on the solid-state structures of aromatic amides (Gowda, Foro & Fuess, 2008; Gowda, Kožíšek *et al.*, 2008; Gowda *et al.*, 2009), in the present work the structure of the title compound (I) is described. There are two independent molecules in the asymmetric unit of (I), Fig. 1. The conformation of the N—H bond in each independent molecule is almost *syn* to the *ortho*-chloro substituent, similar to the *syn* conformation observed with respect to both the 2-chloro and 3-chloro substituents in 2-chloro-*N*-(2,3-dichlorophenyl)acetamide (Gowda *et al.*, 2008*a*). The conformation of the C=O bond is *anti* to the N—H bond, also similar to that observed in 2-chloro-*N*-(2,3-dichlorophenyl)acetamide. The N1—H1N···O1 and N2—H2N···O2 hydrogen bonding pack the molecules into supramolecular chains aligned along the *a* direction (Table 1, Fig. 2).

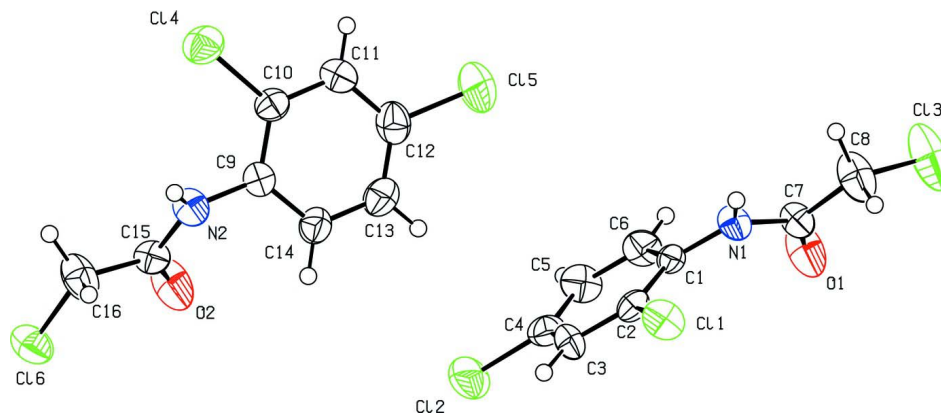
### S2. Experimental

Compound (I) was prepared according to the literature method (Shilpa & Gowda, 2007). The purity of the compound was checked by determining its melting point. It was characterized by recording its infrared, NMR and NQR spectra (Shilpa & Gowda, 2007; Pies *et al.*, 1971). Single crystals of were grown by the slow evaporation of an ethanol solution of (I) held at room temperature.

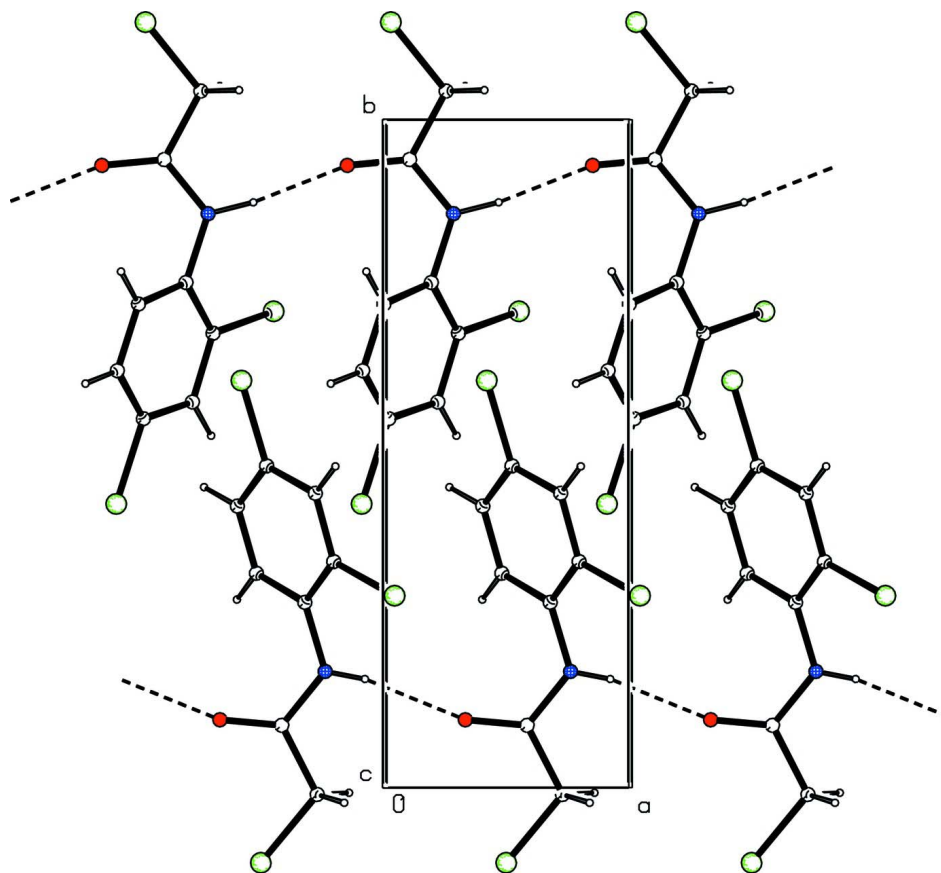
### S3. Refinement

The N-bound H atoms were located in difference map and their positional parameters were refined freely [N—H = 0.77 (7)–0.91 (7) Å]. The other H atoms were positioned with idealized geometry using a riding model [C—H = 0.93–0.97 Å]. All H atoms were refined with isotropic displacement parameters (set to 1.2 times of the  $U_{eq}$  of the parent atom).

To improve considerably the values of R1, wR2, and the GoF, eight reflections (-1 8 3, 0 10 4, 1 5 3, 2 5 0, 2 5 1, 2 5 3, 4 5 0, 1 1 28) were omitted from the final refinement.

**Figure 1**

Molecular structures of the two independent molecules in (I), showing the atom labelling scheme. The displacement ellipsoids are drawn at the 50% probability level.

**Figure 2**

Molecular packing of (I) with hydrogen bonding shown as dashed lines.

2-Chloro-*N*-(2,4-dichlorophenyl)acetamide

## Crystal data

C<sub>8</sub>H<sub>6</sub>Cl<sub>3</sub>NO $M_r = 238.49$ Monoclinic,  $P2_1/c$ 

Hall symbol: -P 2ybc

 $a = 4.7457$  (5) Å $b = 12.9266$  (9) Å $c = 31.879$  (4) Å $\beta = 90.12$  (1)° $V = 1955.6$  (3) Å<sup>3</sup> $Z = 8$  $F(000) = 960$  $D_x = 1.620$  Mg m<sup>-3</sup>Mo  $K\alpha$  radiation,  $\lambda = 0.71073$  Å

Cell parameters from 1466 reflections

 $\theta = 2.5$ – $27.8$ ° $\mu = 0.89$  mm<sup>-1</sup> $T = 299$  K

Needle, colourless

 $0.48 \times 0.05 \times 0.05$  mm

## Data collection

Oxford Diffraction Xcalibur single-crystal diffractometer with a Sapphire CCD detector

Radiation source: fine-focus sealed tube

Graphite monochromator

Rotation method data acquisition using  $\omega$  and  $\varphi$  scans

Absorption correction: multi-scan

(CrysAlis RED; Oxford Diffraction, 2007)

 $T_{\min} = 0.674$ ,  $T_{\max} = 0.957$ 

7393 measured reflections

3590 independent reflections

1475 reflections with  $I > 2\sigma(I)$  $R_{\text{int}} = 0.077$  $\theta_{\text{max}} = 25.3$ °,  $\theta_{\text{min}} = 2.5$ ° $h = -5 \rightarrow 4$  $k = -15 \rightarrow 11$  $l = -38 \rightarrow 38$ 

## Refinement

Refinement on  $F^2$ 

Least-squares matrix: full

 $R[F^2 > 2\sigma(F^2)] = 0.080$  $wR(F^2) = 0.196$  $S = 0.91$ 

3590 reflections

241 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 atoms treated by a mixture of independent and constrained refinement

 $w = 1/[\sigma^2(F_o^2) + (0.0867P)^2]$ where  $P = (F_o^2 + 2F_c^2)/3$  $(\Delta/\sigma)_{\text{max}} = 0.005$  $\Delta\rho_{\text{max}} = 0.44$  e Å<sup>-3</sup> $\Delta\rho_{\text{min}} = -0.39$  e Å<sup>-3</sup>

## Special details

**Experimental.** Absorption correction: CrysAlis RED (Oxford Diffraction, 2007) Empirical absorption correction using spherical harmonics, implemented in SCALE3 ABSPACK scaling algorithm.**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 (Å<sup>2</sup>)

	$x$	$y$	$z$	$U_{\text{iso}}^*/U_{\text{eq}}$
Cl1	0.5403 (4)	0.71319 (16)	0.00042 (6)	0.0507 (6)

C12	-0.1002 (5)	0.42476 (17)	0.07378 (7)	0.0699 (8)
C13	0.0189 (5)	1.14606 (18)	0.06668 (10)	0.0935 (9)
O1	-0.1586 (10)	0.9317 (4)	0.06073 (19)	0.0672 (18)
N1	0.2740 (11)	0.8593 (5)	0.06055 (18)	0.0362 (16)
H1N	0.460 (14)	0.876 (5)	0.0583 (19)	0.043*
C1	0.1840 (14)	0.7560 (5)	0.0644 (2)	0.0309 (17)
C2	0.2935 (13)	0.6804 (6)	0.0379 (2)	0.0330 (18)
C3	0.2098 (15)	0.5774 (6)	0.0412 (2)	0.0393 (19)
H3	0.2862	0.5270	0.0238	0.047*
C4	0.0105 (16)	0.5522 (6)	0.0710 (2)	0.047 (2)
C5	-0.0950 (15)	0.6242 (7)	0.0982 (2)	0.046 (2)
H5	-0.2243	0.6049	0.1186	0.055*
C6	-0.0095 (15)	0.7241 (6)	0.0950 (2)	0.044 (2)
H6	-0.0810	0.7727	0.1137	0.053*
C7	0.0950 (14)	0.9405 (6)	0.0596 (2)	0.0386 (19)
C8	0.2440 (16)	1.0429 (6)	0.0563 (3)	0.063 (3)
H8A	0.3208	1.0505	0.0283	0.075*
H8B	0.3997	1.0444	0.0761	0.075*
C14	1.0368 (4)	0.28731 (17)	0.25087 (6)	0.0545 (6)
C15	0.4118 (6)	0.60945 (19)	0.20155 (8)	0.0830 (8)
C16	0.4903 (4)	-0.11251 (17)	0.16628 (7)	0.0586 (6)
O2	0.3241 (10)	0.1017 (4)	0.1770 (2)	0.0701 (18)
N2	0.7526 (12)	0.1738 (5)	0.1816 (2)	0.0422 (18)
H2N	0.912 (15)	0.163 (6)	0.181 (2)	0.051*
C9	0.6701 (14)	0.2773 (6)	0.1861 (2)	0.0335 (17)
C10	0.7879 (14)	0.3385 (6)	0.2170 (2)	0.0381 (19)
C11	0.7131 (15)	0.4406 (6)	0.2217 (2)	0.045 (2)
H11	0.7958	0.4811	0.2425	0.054*
C12	0.5141 (17)	0.4817 (6)	0.1952 (3)	0.049 (2)
C13	0.3952 (15)	0.4215 (7)	0.1645 (3)	0.049 (2)
H13	0.2595	0.4499	0.1469	0.059*
C14	0.4723 (15)	0.3210 (6)	0.1595 (2)	0.044 (2)
H14	0.3922	0.2817	0.1381	0.052*
C15	0.5757 (15)	0.0933 (6)	0.1774 (2)	0.0374 (19)
C16	0.7204 (15)	-0.0104 (6)	0.1735 (3)	0.062 (3)
H16A	0.8307	-0.0229	0.1986	0.074*
H16B	0.8496	-0.0079	0.1500	0.074*

Atomic displacement parameters ( $\text{\AA}^2$ )

	$U^{11}$	$U^{22}$	$U^{33}$	$U^{12}$	$U^{13}$	$U^{23}$
C11	0.0426 (12)	0.0541 (13)	0.0555 (13)	-0.0074 (10)	0.0135 (9)	-0.0047 (11)
C12	0.0955 (19)	0.0486 (15)	0.0657 (16)	-0.0266 (12)	-0.0015 (13)	0.0074 (12)
C13	0.0723 (18)	0.0432 (15)	0.165 (3)	0.0070 (13)	0.0398 (16)	0.0038 (16)
O1	0.018 (3)	0.043 (4)	0.140 (6)	0.002 (3)	0.005 (3)	-0.001 (3)
N1	0.016 (3)	0.034 (4)	0.058 (4)	-0.007 (3)	0.001 (3)	0.000 (3)
C1	0.029 (4)	0.030 (4)	0.034 (4)	0.006 (3)	-0.006 (3)	-0.002 (4)
C2	0.029 (4)	0.045 (5)	0.025 (4)	0.000 (3)	0.003 (3)	0.006 (4)

C3	0.040 (5)	0.028 (5)	0.050 (5)	0.002 (4)	0.003 (4)	-0.004 (4)
C4	0.049 (5)	0.051 (6)	0.040 (5)	-0.012 (4)	-0.012 (4)	0.004 (4)
C5	0.037 (5)	0.055 (6)	0.046 (5)	-0.015 (4)	0.013 (4)	0.002 (5)
C6	0.047 (5)	0.050 (6)	0.036 (5)	0.004 (4)	0.012 (4)	-0.007 (4)
C7	0.021 (4)	0.035 (5)	0.060 (5)	0.003 (4)	-0.001 (4)	-0.008 (4)
C8	0.033 (5)	0.043 (5)	0.113 (8)	-0.002 (4)	0.007 (4)	0.001 (5)
C14	0.0407 (12)	0.0626 (15)	0.0602 (13)	0.0013 (10)	-0.0087 (9)	-0.0003 (12)
C15	0.106 (2)	0.0461 (15)	0.097 (2)	0.0256 (14)	-0.0060 (15)	-0.0084 (14)
C16	0.0516 (13)	0.0489 (13)	0.0753 (16)	-0.0065 (11)	-0.0020 (11)	-0.0133 (12)
O2	0.020 (3)	0.047 (4)	0.143 (6)	0.010 (3)	-0.003 (3)	-0.013 (4)
N2	0.020 (3)	0.042 (4)	0.064 (4)	0.002 (3)	0.000 (3)	-0.003 (3)
C9	0.028 (4)	0.036 (5)	0.037 (4)	0.000 (3)	0.008 (3)	0.001 (4)
C10	0.031 (4)	0.043 (5)	0.041 (5)	-0.001 (4)	-0.001 (3)	0.001 (4)
C11	0.045 (5)	0.043 (5)	0.047 (5)	-0.003 (4)	0.000 (4)	-0.008 (4)
C12	0.054 (6)	0.044 (5)	0.051 (5)	0.012 (4)	0.011 (4)	0.001 (5)
C13	0.043 (5)	0.054 (6)	0.049 (5)	0.007 (4)	-0.007 (4)	0.006 (5)
C14	0.043 (5)	0.041 (5)	0.046 (5)	0.005 (4)	-0.004 (4)	0.004 (4)
C15	0.022 (4)	0.045 (5)	0.045 (5)	0.002 (4)	0.001 (3)	-0.005 (4)
C16	0.035 (5)	0.040 (5)	0.110 (8)	-0.004 (4)	-0.001 (5)	-0.003 (5)

*Geometric parameters (Å, °)*

C11—C2	1.728 (7)	C14—C10	1.730 (7)
C12—C4	1.731 (8)	C15—C12	1.733 (8)
C13—C8	1.740 (8)	C16—C16	1.728 (8)
O1—C7	1.209 (7)	O2—C15	1.199 (7)
N1—C7	1.350 (9)	N2—C15	1.344 (9)
N1—C1	1.407 (9)	N2—C9	1.401 (9)
N1—H1N	0.91 (7)	N2—H2N	0.77 (7)
C1—C2	1.392 (9)	C9—C10	1.381 (9)
C1—C6	1.403 (9)	C9—C14	1.385 (9)
C2—C3	1.393 (10)	C10—C11	1.376 (10)
C3—C4	1.381 (10)	C11—C12	1.373 (10)
C3—H3	0.9300	C11—H11	0.9300
C4—C5	1.367 (11)	C12—C13	1.371 (10)
C5—C6	1.358 (10)	C13—C14	1.360 (11)
C5—H5	0.9300	C13—H13	0.9300
C6—H6	0.9300	C14—H14	0.9300
C7—C8	1.505 (11)	C15—C16	1.511 (10)
C8—H8A	0.9700	C16—H16A	0.9700
C8—H8B	0.9700	C16—H16B	0.9700
C7—N1—C1	123.3 (6)	C15—N2—C9	125.1 (6)
C7—N1—H1N	115 (4)	C15—N2—H2N	118 (6)
C1—N1—H1N	122 (4)	C9—N2—H2N	117 (6)
C2—C1—C6	117.4 (7)	C10—C9—C14	118.4 (7)
C2—C1—N1	119.9 (6)	C10—C9—N2	120.5 (6)
C6—C1—N1	122.6 (6)	C14—C9—N2	121.1 (6)

C1—C2—C3	121.2 (6)	C11—C10—C9	121.6 (7)
C1—C2—C11	120.1 (6)	C11—C10—C14	118.3 (6)
C3—C2—C11	118.7 (6)	C9—C10—C14	120.1 (6)
C4—C3—C2	118.2 (7)	C12—C11—C10	118.8 (7)
C4—C3—H3	120.9	C12—C11—H11	120.6
C2—C3—H3	120.9	C10—C11—H11	120.6
C5—C4—C3	121.8 (7)	C13—C12—C11	120.1 (7)
C5—C4—C12	120.3 (7)	C13—C12—C15	120.6 (6)
C3—C4—C12	117.9 (7)	C11—C12—C15	119.3 (7)
C6—C5—C4	119.4 (7)	C14—C13—C12	121.1 (7)
C6—C5—H5	120.3	C14—C13—H13	119.4
C4—C5—H5	120.3	C12—C13—H13	119.4
C5—C6—C1	121.8 (7)	C13—C14—C9	120.0 (7)
C5—C6—H6	119.1	C13—C14—H14	120.0
C1—C6—H6	119.1	C9—C14—H14	120.0
O1—C7—N1	123.5 (7)	O2—C15—N2	123.6 (7)
O1—C7—C8	123.5 (7)	O2—C15—C16	122.1 (7)
N1—C7—C8	112.9 (6)	N2—C15—C16	114.3 (6)
C7—C8—C13	111.9 (5)	C15—C16—C16	113.6 (5)
C7—C8—H8A	109.2	C15—C16—H16A	108.8
C13—C8—H8A	109.2	C16—C16—H16A	108.8
C7—C8—H8B	109.2	C15—C16—H16B	108.8
C13—C8—H8B	109.2	C16—C16—H16B	108.8
H8A—C8—H8B	107.9	H16A—C16—H16B	107.7
C7—N1—C1—C2	132.9 (7)	C15—N2—C9—C10	132.3 (8)
C7—N1—C1—C6	-48.9 (10)	C15—N2—C9—C14	-48.6 (10)
C6—C1—C2—C3	1.3 (9)	C14—C9—C10—C11	0.0 (10)
N1—C1—C2—C3	179.6 (6)	N2—C9—C10—C11	179.2 (7)
C6—C1—C2—C11	-178.2 (5)	C14—C9—C10—C14	-179.8 (5)
N1—C1—C2—C11	0.1 (8)	N2—C9—C10—C14	-0.7 (9)
C1—C2—C3—C4	1.2 (10)	C9—C10—C11—C12	0.7 (11)
C11—C2—C3—C4	-179.4 (5)	C14—C10—C11—C12	-179.5 (6)
C2—C3—C4—C5	-3.0 (11)	C10—C11—C12—C13	-0.5 (12)
C2—C3—C4—C12	178.1 (5)	C10—C11—C12—C15	178.6 (6)
C3—C4—C5—C6	2.3 (11)	C11—C12—C13—C14	-0.5 (12)
C12—C4—C5—C6	-178.9 (6)	C15—C12—C13—C14	-179.5 (6)
C4—C5—C6—C1	0.4 (11)	C12—C13—C14—C9	1.3 (12)
C2—C1—C6—C5	-2.1 (10)	C10—C9—C14—C13	-1.0 (11)
N1—C1—C6—C5	179.7 (7)	N2—C9—C14—C13	179.9 (7)
C1—N1—C7—O1	-2.1 (12)	C9—N2—C15—O2	0.2 (12)
C1—N1—C7—C8	178.6 (6)	C9—N2—C15—C16	-179.5 (7)
O1—C7—C8—C13	14.0 (11)	O2—C15—C16—C16	2.5 (11)
N1—C7—C8—C13	-166.8 (5)	N2—C15—C16—C16	-177.8 (6)

*Hydrogen-bond geometry (Å, °)*

<i>D</i> —H $\cdots$ <i>A</i>	<i>D</i> —H	H $\cdots$ <i>A</i>	<i>D</i> $\cdots$ <i>A</i>	<i>D</i> —H $\cdots$ <i>A</i>
N1—H1N $\cdots$ O1 <sup>i</sup>	0.91 (7)	1.95 (7)	2.851 (7)	170 (6)
N2—H2N $\cdots$ O2 <sup>i</sup>	0.77 (7)	2.11 (7)	2.872 (7)	168 (8)

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