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Bis[μ -1-(3,5-dichloropyridin-2-yl)-2-(pyridin-3-ylmethylidene)hydrazine]-bis[(nitrate- κ O)silver(I)] acetonitrile disolvate

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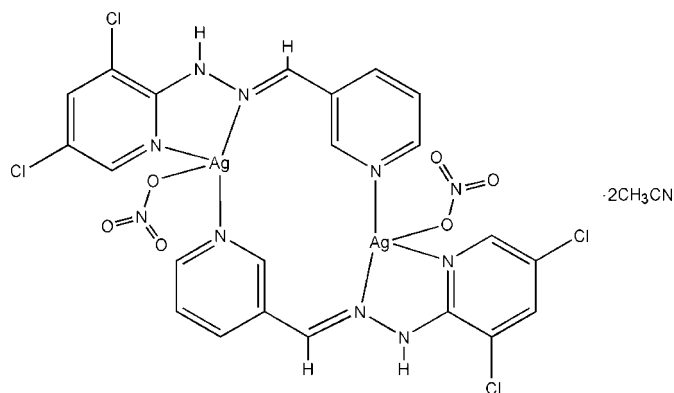
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 Key indicators: single-crystal X-ray study; $T = 296$ K; mean $\sigma(\text{C}-\text{C}) = 0.008$ Å; R factor = 0.039; wR factor = 0.113; data-to-parameter ratio = 13.4.

In the centrosymmetric binuclear title complex, $[\text{Ag}_2(\text{NO}_3)_2(\text{C}_{11}\text{H}_8\text{Cl}_2\text{N}_4)_2] \cdot 2\text{CH}_3\text{CN}$, the Ag^{I} atom is four-coordinated and exhibits a highly distorted tetrahedral coordination sphere defined by three N atoms from two 1-(3,5-dichloropyridin-2-yl)-2-(pyridin-3-ylmethylidene)hydrazine ligands and one O atom from a nitrate anion. Intermolecular $\text{N}-\text{H} \cdots \text{O}$ hydrogen bonds link the complex molecules, resulting in a two-dimensional supramolecular structure parallel to (001).

Related literature

For background to compounds with metal-organic framework structures, see: Barnett & Champness (2003); Roesky & Andruh (2003); Zaworotko (2000).



Experimental

Crystal data

$[\text{Ag}_2(\text{NO}_3)_2(\text{C}_{11}\text{H}_8\text{Cl}_2\text{N}_4)_2] \cdot 2\text{C}_2\text{H}_3\text{N}$
 $M_r = 956.10$
 Orthorhombic, $Pbca$
 $a = 15.3862$ (19) Å
 $b = 8.2397$ (10) Å
 $c = 27.198$ (4) Å
 $V = 3448.1$ (8) Å³
 $Z = 4$
 Mo $K\alpha$ radiation
 $\mu = 1.51$ mm⁻¹
 $T = 296$ K
 $0.32 \times 0.28 \times 0.22$ mm

Data collection

Bruker APEXII CCD diffractometer
 Absorption correction: multi-scan (*SADABS*; Sheldrick, 1996)
 $T_{\text{min}} = 0.645$, $T_{\text{max}} = 0.733$
 16325 measured reflections
 3041 independent reflections
 2498 reflections with $I > 2\sigma(I)$
 $R_{\text{int}} = 0.029$

Refinement

$R[F^2 > 2\sigma(F^2)] = 0.039$
 $wR(F^2) = 0.113$
 $S = 1.08$
 3041 reflections
 227 parameters
 H-atom parameters constrained
 $\Delta\rho_{\text{max}} = 0.66$ e Å⁻³
 $\Delta\rho_{\text{min}} = -0.50$ e Å⁻³

Table 1

Hydrogen-bond geometry (Å, °).

$D-\text{H} \cdots A$	$D-\text{H}$	$\text{H} \cdots A$	$D \cdots A$	$D-\text{H} \cdots A$
$\text{N}2-\text{H}2 \cdots \text{O}3^{\text{i}}$	0.86	2.09	2.909 (5)	158

 Symmetry code: (i) $x + \frac{1}{2}$, $-y + \frac{3}{2}$, $-z + 1$.

Data collection: *APEX2* (Bruker, 2007); cell refinement: *SAINT* (Bruker, 2007); 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) and *DIAMOND* (Brandenburg & Berndt, 1999); software used to prepare material for publication: *SHELXTL*.

Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: HY2636).

References

- Barnett, S. A. & Champness, N. R. (2003). *Coord. Chem. Rev.* **246**, 145–168.
 Brandenburg, K. & Berndt, M. (1999). *DIAMOND*. Crystal Impact GbR, Bonn, Germany.
 Bruker (2007). *APEX2* and *SAINT*. Bruker AXS Inc., Madison, Wisconsin, USA.
 Roesky, H. W. & Andruh, M. (2003). *Coord. Chem. Rev.* **236**, 91–119.
 Sheldrick, G. M. (1996). *SADABS*. University of Göttingen, Germany.
 Sheldrick, G. M. (2008). *Acta Cryst.* **A64**, 112–122.
 Zaworotko, M. J. (2000). *Chem. Commun.* pp. 1–9.

supporting information

Acta Cryst. (2013). E69, m525 [doi:10.1107/S1600536813024021]

Bis[μ -1-(3,5-dichloropyridin-2-yl)-2-(pyridin-3-ylmethylidene)hydrazine]bis-[(nitrate- κ O)silver(I)] acetonitrile disolvate

Ying Guo and Hua Cai

S1. Comment

Neutral organic ligands containing rigid or flexible spacers, such as 4,4'-bipyridine, 1,2-bis(4-pyridyl)ethane, 1,2-bis(4-pyridyl)propane and many others, have been used to generate a rich variety of metal-organic architectures with different metal ions by various reaction procedure (Barnett & Champness, 2003; Roesky & Andruh, 2003; Zaworotko, 2000). In our recent research, we have initiated a synthetic approach employing 1-(3,5-dichloropyridin-2-yl)-2-(pyridin-3-ylmethylidene)hydrazine (*L*) upon reaction with different metal ions to construct new functional frameworks. To explore this series, we synthesized the title compound, a new Ag(I) complex based on the *L* ligand.

In the title complex (Fig. 1), the Ag^I atom is four-coordinated and exhibits a highly distorted tetrahedral geometry defined by three N atoms from two *L* ligands and one O from a nitrate anion. The *L* ligands bridge two Ag^I atoms, resulting in a centrosymmetric binuclear unit. The 2-pyridyl and 3-pyridyl rings in the ligand are not coplanar, with a dihedral angle of 25.74 (16)°. Intermolecular N—H...O hydrogen bonds (Table 1) extend the binuclear units into a two-dimensional supramolecular structure parallel to (001), as shown in Fig. 2.

S2. Experimental

AgNO₃ (17.0 mg, 0.1 mmol) and 1-(3,5-dichloropyridin-2-yl)-2-(pyridin-3-ylmethyl)diazene (22.2 mg, 0.1 mmol) were mixed in a CH₃CN/H₂O (20 ml, 1:1 *v/v*) solution with vigorous stirring for *ca* 30 min. The resulting solution was filtered and left to stand at room temperature. Colorless block crystals of the title compound suitable for X-ray analysis were obtained in 85% yield by slow evaporation of the solvent over a period of 1 week. Analysis, calculated for C₂₆H₂₂Ag₂Cl₄N₁₂O₆: C 50.42, H 5.14, N 8.40%; found: C 50.45, H 5.03, N 8.32%.

S3. Refinement

Although all H atoms were visible in difference maps, they were finally placed in geometrically calculated positions and refined as riding atoms, with C—H = 0.93 (aromatic), 0.96 (methyl) and N—H = 0.86 Å and with $U_{\text{iso}}(\text{H}) = 1.2(1.5 \text{ for methyl})U_{\text{eq}}(\text{C, N})$.

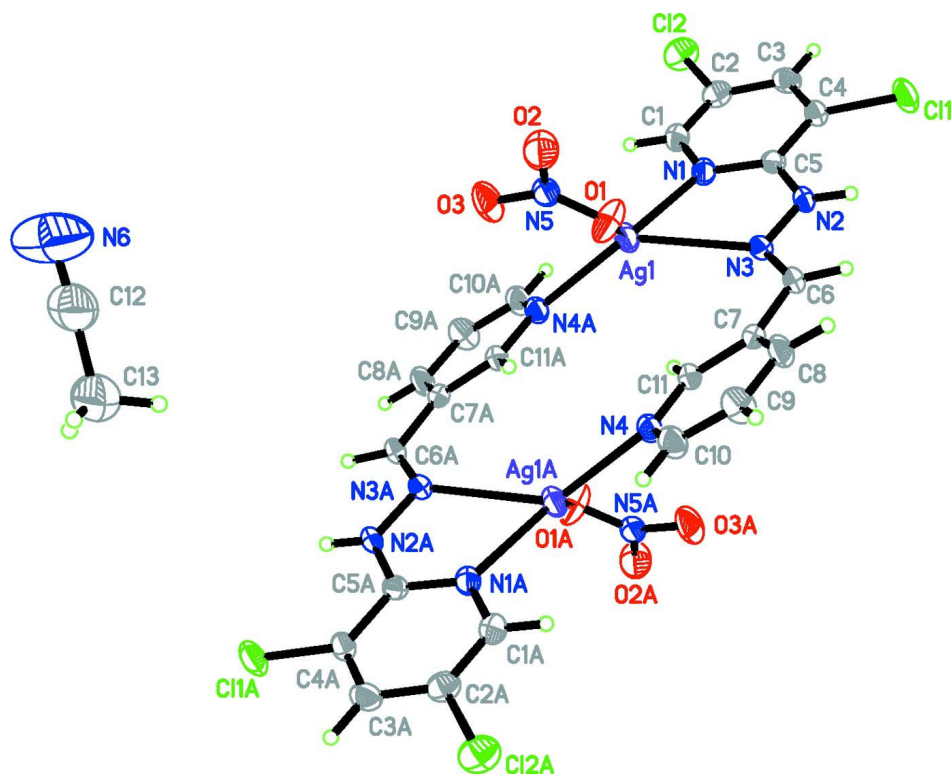
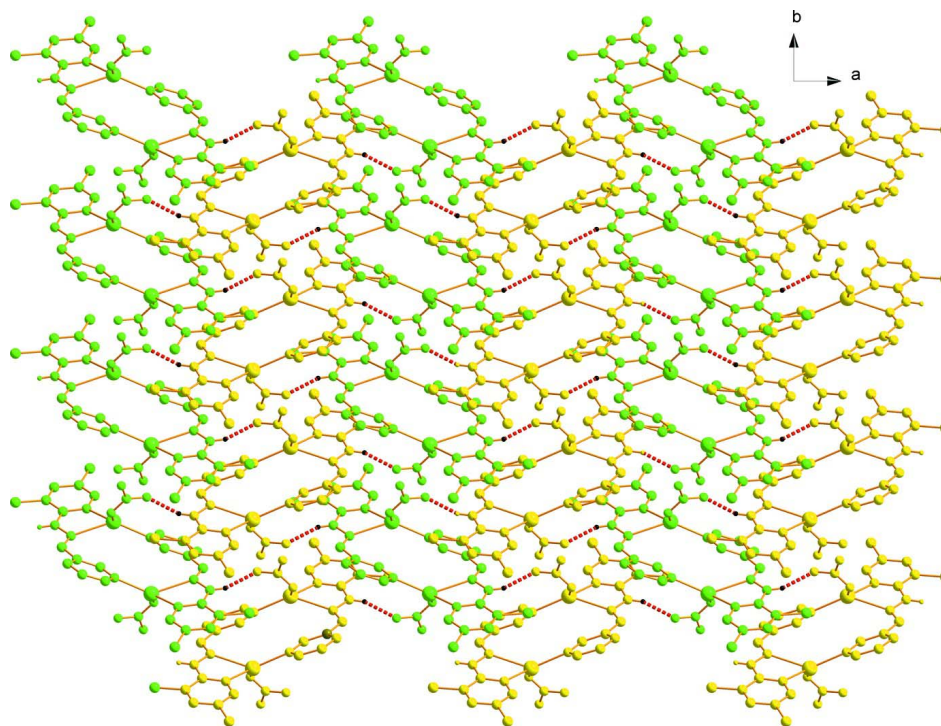


Figure 1

The molecular structure of the title compound. Displacement ellipsoids are shown at the 30% probability level.

[Symmetry code: (A) 1-x, 2-y, 1-z.]

**Figure 2**

The two-dimensional supramolecular structure of the title compound, showing N—H···O hydrogen bonds as red dashed lines.

Bis[μ -1-(3,5-dichloropyridin-2-yl)-2-(pyridin-3-ylmethylidene)hydrazine]bis[(nitrate- κ O)silver(I)] acetonitrile disolvate

Crystal data

$[\text{Ag}_2(\text{NO}_3)_2(\text{C}_{11}\text{H}_8\text{Cl}_2\text{N}_4)_2] \cdot 2\text{C}_2\text{H}_3\text{N}$

$M_r = 956.10$

Orthorhombic, *Pbca*

Hall symbol: -P 2ac 2ab

$a = 15.3862(19) \text{ \AA}$

$b = 8.2397(10) \text{ \AA}$

$c = 27.198(4) \text{ \AA}$

$V = 3448.1(8) \text{ \AA}^3$

$Z = 4$

$F(000) = 1888$

$D_x = 1.842 \text{ Mg m}^{-3}$

Mo $K\alpha$ radiation, $\lambda = 0.71073 \text{ \AA}$

Cell parameters from 6506 reflections

$\theta = 2.7\text{--}29.1^\circ$

$\mu = 1.51 \text{ mm}^{-1}$

$T = 296 \text{ K}$

Block, colorless

$0.32 \times 0.28 \times 0.22 \text{ mm}$

Data collection

Bruker APEXII CCD
diffractometer

Radiation source: fine-focus sealed tube

Graphite monochromator

φ and ω scans

Absorption correction: multi-scan
(*SADABS*; Sheldrick, 1996)

$T_{\min} = 0.645$, $T_{\max} = 0.733$

16325 measured reflections

3041 independent reflections

2498 reflections with $I > 2\sigma(I)$

$R_{\text{int}} = 0.029$

$\theta_{\max} = 25.0^\circ$, $\theta_{\min} = 1.5^\circ$

$h = -15 \rightarrow 18$

$k = -6 \rightarrow 9$

$l = -32 \rightarrow 26$

Refinement

Refinement on F^2
 Least-squares matrix: full
 $R[F^2 > 2\sigma(F^2)] = 0.039$
 $wR(F^2) = 0.113$
 $S = 1.08$
 3041 reflections
 227 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
 $w = 1/[\sigma^2(F_o^2) + (0.038P)^2 + 14.4907P]$
 where $P = (F_o^2 + 2F_c^2)/3$
 $(\Delta/\sigma)_{\max} = 0.001$
 $\Delta\rho_{\max} = 0.66 \text{ e } \text{\AA}^{-3}$
 $\Delta\rho_{\min} = -0.50 \text{ e } \text{\AA}^{-3}$

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 (\AA^2)

	x	y	z	$U_{\text{iso}}^*/U_{\text{eq}}$
Ag1	0.56792 (2)	0.75776 (5)	0.548365 (16)	0.04728 (16)
Cl1	0.91981 (8)	0.6283 (2)	0.62236 (6)	0.0593 (4)
Cl2	0.65242 (12)	0.4004 (2)	0.73037 (5)	0.0635 (4)
O1	0.5766 (3)	0.6995 (6)	0.45874 (17)	0.0733 (14)
O2	0.5395 (3)	0.5169 (6)	0.40845 (17)	0.0692 (12)
O3	0.4486 (2)	0.5938 (6)	0.46331 (16)	0.0665 (13)
N1	0.6643 (3)	0.6706 (5)	0.60951 (15)	0.0399 (10)
N2	0.7784 (2)	0.7820 (5)	0.56417 (15)	0.0362 (9)
H2	0.8333	0.7953	0.5598	0.043*
N3	0.7204 (2)	0.8532 (5)	0.53260 (14)	0.0342 (9)
N4	0.5645 (2)	1.1349 (5)	0.43586 (15)	0.0384 (9)
N5	0.5217 (3)	0.6047 (5)	0.44344 (16)	0.0419 (10)
N6	0.1005 (11)	0.4204 (14)	0.2093 (4)	0.186 (6)
C1	0.6359 (3)	0.5835 (6)	0.6484 (2)	0.0445 (12)
H1	0.5764	0.5707	0.6530	0.053*
C2	0.6916 (4)	0.5135 (7)	0.68122 (19)	0.0444 (12)
C3	0.7808 (4)	0.5264 (6)	0.67384 (19)	0.0445 (12)
H3	0.8198	0.4768	0.6952	0.053*
C4	0.8098 (3)	0.6139 (6)	0.63428 (19)	0.0394 (11)
C5	0.7495 (3)	0.6900 (6)	0.60256 (17)	0.0341 (10)
C6	0.7533 (3)	0.9297 (6)	0.49620 (17)	0.0352 (10)
H6	0.8134	0.9331	0.4929	0.042*
C7	0.6992 (3)	1.0122 (6)	0.45957 (17)	0.0332 (10)
C8	0.7328 (3)	1.0400 (7)	0.41291 (19)	0.0455 (13)
H8	0.7896	1.0107	0.4053	0.055*

C9	0.6801 (4)	1.1120 (8)	0.3781 (2)	0.0531 (14)
H9	0.7006	1.1303	0.3464	0.064*
C10	0.5973 (3)	1.1562 (7)	0.3907 (2)	0.0478 (13)
H10	0.5622	1.2032	0.3668	0.057*
C11	0.6150 (3)	1.0632 (6)	0.46957 (18)	0.0344 (10)
H11	0.5928	1.0468	0.5010	0.041*
C12	0.1048 (8)	0.5540 (14)	0.2028 (3)	0.107 (3)
C13	0.1061 (8)	0.7257 (12)	0.1945 (5)	0.134 (4)
H13A	0.1004	0.7470	0.1599	0.201*
H13B	0.1600	0.7698	0.2061	0.201*
H13C	0.0586	0.7755	0.2117	0.201*

Atomic displacement parameters (Å²)

	U^{11}	U^{22}	U^{33}	U^{12}	U^{13}	U^{23}
Ag1	0.0295 (2)	0.0536 (3)	0.0587 (3)	0.00328 (18)	-0.00426 (17)	0.0089 (2)
Cl1	0.0305 (6)	0.0752 (10)	0.0723 (10)	0.0088 (7)	-0.0074 (6)	0.0185 (8)
Cl2	0.0796 (11)	0.0639 (10)	0.0469 (8)	-0.0064 (8)	0.0057 (7)	0.0126 (7)
O1	0.072 (3)	0.073 (3)	0.075 (3)	-0.039 (3)	0.007 (2)	-0.017 (2)
O2	0.057 (3)	0.073 (3)	0.078 (3)	-0.001 (2)	0.003 (2)	-0.024 (3)
O3	0.034 (2)	0.095 (4)	0.070 (3)	0.008 (2)	0.0116 (19)	0.024 (3)
N1	0.032 (2)	0.042 (2)	0.045 (2)	-0.0037 (18)	-0.0038 (18)	0.006 (2)
N2	0.0230 (19)	0.038 (2)	0.047 (2)	0.0018 (16)	-0.0047 (17)	0.0053 (18)
N3	0.029 (2)	0.033 (2)	0.040 (2)	0.0026 (17)	-0.0061 (17)	0.0009 (18)
N4	0.030 (2)	0.042 (2)	0.042 (2)	0.0005 (18)	-0.0047 (17)	0.0069 (19)
N5	0.035 (2)	0.042 (2)	0.049 (3)	0.001 (2)	-0.0004 (19)	0.006 (2)
N6	0.354 (18)	0.105 (7)	0.099 (7)	0.039 (10)	-0.090 (9)	-0.002 (6)
C1	0.035 (3)	0.045 (3)	0.054 (3)	-0.004 (2)	0.003 (2)	0.005 (3)
C2	0.055 (3)	0.041 (3)	0.037 (3)	-0.003 (3)	0.002 (2)	0.003 (2)
C3	0.050 (3)	0.041 (3)	0.042 (3)	0.006 (2)	-0.011 (2)	0.004 (2)
C4	0.029 (2)	0.041 (3)	0.048 (3)	0.002 (2)	-0.006 (2)	-0.002 (2)
C5	0.035 (2)	0.029 (2)	0.038 (2)	0.002 (2)	-0.007 (2)	-0.002 (2)
C6	0.023 (2)	0.037 (3)	0.045 (3)	0.0032 (19)	-0.003 (2)	0.000 (2)
C7	0.028 (2)	0.029 (2)	0.042 (3)	-0.0029 (19)	-0.0025 (19)	0.003 (2)
C8	0.026 (3)	0.056 (3)	0.054 (3)	0.005 (2)	0.005 (2)	0.006 (3)
C9	0.051 (3)	0.070 (4)	0.039 (3)	0.008 (3)	0.007 (2)	0.012 (3)
C10	0.041 (3)	0.056 (3)	0.046 (3)	0.003 (3)	-0.009 (2)	0.010 (3)
C11	0.026 (2)	0.035 (3)	0.041 (3)	0.0004 (19)	0.000 (2)	0.002 (2)
C12	0.134 (9)	0.095 (7)	0.091 (6)	0.016 (7)	-0.054 (6)	-0.013 (6)
C13	0.123 (9)	0.090 (8)	0.189 (12)	0.015 (6)	-0.057 (8)	-0.022 (7)

Geometric parameters (Å, °)

Ag1—N4 ⁱ	2.262 (4)	C1—H1	0.9300
Ag1—N1	2.341 (4)	C2—C3	1.391 (8)
Ag1—O1	2.488 (5)	C3—C4	1.370 (7)
Ag1—N3	2.511 (4)	C3—H3	0.9300
Cl1—C4	1.727 (5)	C4—C5	1.415 (7)

C12—C2	1.738 (5)	C6—C7	1.465 (6)
O1—N5	1.224 (6)	C6—H6	0.9300
O2—N5	1.227 (6)	C7—C8	1.389 (7)
O3—N5	1.251 (6)	C7—C11	1.389 (6)
N1—C5	1.334 (6)	C8—C9	1.381 (7)
N1—C1	1.352 (6)	C8—H8	0.9300
N2—C5	1.365 (6)	C9—C10	1.368 (8)
N2—N3	1.370 (5)	C9—H9	0.9300
N2—H2	0.8600	C10—H10	0.9300
N3—C6	1.278 (6)	C11—H11	0.9300
N4—C10	1.339 (7)	C12—C13	1.433 (14)
N4—C11	1.339 (6)	C13—H13A	0.9600
N4—Ag1 ⁱ	2.262 (4)	C13—H13B	0.9600
N6—C12	1.117 (13)	C13—H13C	0.9600
C1—C2	1.365 (7)		
N4 ⁱ —Ag1—N1	123.76 (15)	C3—C4—C5	119.9 (5)
N4 ⁱ —Ag1—O1	108.04 (16)	C3—C4—C11	120.2 (4)
N1—Ag1—O1	127.07 (17)	C5—C4—C11	119.9 (4)
N4 ⁱ —Ag1—N3	138.70 (14)	N1—C5—N2	119.7 (4)
N1—Ag1—N3	68.01 (13)	N1—C5—C4	120.4 (4)
O1—Ag1—N3	80.96 (13)	N2—C5—C4	119.9 (4)
N5—O1—Ag1	114.8 (3)	N3—C6—C7	122.1 (4)
C5—N1—C1	119.5 (4)	N3—C6—H6	118.9
C5—N1—Ag1	119.0 (3)	C7—C6—H6	118.9
C1—N1—Ag1	120.9 (3)	C8—C7—C11	118.4 (4)
C5—N2—N3	120.3 (4)	C8—C7—C6	119.1 (4)
C5—N2—H2	119.8	C11—C7—C6	122.4 (4)
N3—N2—H2	119.8	C9—C8—C7	118.6 (5)
C6—N3—N2	116.1 (4)	C9—C8—H8	120.7
C6—N3—Ag1	131.0 (3)	C7—C8—H8	120.7
N2—N3—Ag1	111.5 (3)	C10—C9—C8	119.3 (5)
C10—N4—C11	117.8 (4)	C10—C9—H9	120.4
C10—N4—Ag1 ⁱ	117.5 (3)	C8—C9—H9	120.4
C11—N4—Ag1 ⁱ	124.4 (3)	N4—C10—C9	123.1 (5)
O1—N5—O2	119.1 (5)	N4—C10—H10	118.4
O1—N5—O3	121.3 (5)	C9—C10—H10	118.4
O2—N5—O3	119.6 (5)	N4—C11—C7	122.7 (5)
N1—C1—C2	122.2 (5)	N4—C11—H11	118.6
N1—C1—H1	118.9	C7—C11—H11	118.6
C2—C1—H1	118.9	N6—C12—C13	177.4 (16)
C1—C2—C3	119.6 (5)	C12—C13—H13A	109.5
C1—C2—C12	120.7 (4)	C12—C13—H13B	109.5
C3—C2—C12	119.6 (4)	H13A—C13—H13B	109.5
C4—C3—C2	118.4 (5)	C12—C13—H13C	109.5
C4—C3—H3	120.8	H13A—C13—H13C	109.5
C2—C3—H3	120.8	H13B—C13—H13C	109.5

N4 ⁱ —Ag1—O1—N5	-59.5 (5)	C2—C3—C4—C11	-178.0 (4)
N1—Ag1—O1—N5	108.6 (4)	C1—N1—C5—N2	-178.0 (4)
N3—Ag1—O1—N5	162.0 (4)	Ag1—N1—C5—N2	10.3 (6)
N4 ⁱ —Ag1—N1—C5	-145.0 (3)	C1—N1—C5—C4	2.9 (7)
O1—Ag1—N1—C5	48.7 (4)	Ag1—N1—C5—C4	-168.8 (3)
N3—Ag1—N1—C5	-10.2 (3)	N3—N2—C5—N1	-0.5 (7)
N4 ⁱ —Ag1—N1—C1	43.4 (4)	N3—N2—C5—C4	178.5 (4)
O1—Ag1—N1—C1	-122.9 (4)	C3—C4—C5—N1	-3.3 (7)
N3—Ag1—N1—C1	178.2 (4)	C11—C4—C5—N1	175.5 (4)
C5—N2—N3—C6	-176.3 (4)	C3—C4—C5—N2	177.6 (5)
C5—N2—N3—Ag1	-8.3 (5)	C11—C4—C5—N2	-3.6 (7)
N4 ⁱ —Ag1—N3—C6	-68.5 (5)	N2—N3—C6—C7	-179.8 (4)
N1—Ag1—N3—C6	174.9 (5)	Ag1—N3—C6—C7	15.0 (7)
O1—Ag1—N3—C6	38.6 (4)	N3—C6—C7—C8	-156.3 (5)
N4 ⁱ —Ag1—N3—N2	125.8 (3)	N3—C6—C7—C11	23.3 (7)
N1—Ag1—N3—N2	9.2 (3)	C11—C7—C8—C9	-2.1 (8)
O1—Ag1—N3—N2	-127.1 (3)	C6—C7—C8—C9	177.4 (5)
Ag1—O1—N5—O2	-149.3 (4)	C7—C8—C9—C10	1.1 (9)
Ag1—O1—N5—O3	29.4 (7)	C11—N4—C10—C9	-1.7 (8)
C5—N1—C1—C2	-0.1 (8)	Ag1 ⁱ —N4—C10—C9	173.1 (5)
Ag1—N1—C1—C2	171.5 (4)	C8—C9—C10—N4	0.9 (10)
N1—C1—C2—C3	-2.4 (8)	C10—N4—C11—C7	0.6 (7)
N1—C1—C2—C12	-179.2 (4)	Ag1 ⁱ —N4—C11—C7	-173.8 (3)
C1—C2—C3—C4	2.0 (8)	C8—C7—C11—N4	1.3 (7)
C12—C2—C3—C4	178.8 (4)	C6—C7—C11—N4	-178.2 (4)
C2—C3—C4—C5	0.8 (8)		

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

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

$D-H\cdots A$	$D-H$	$H\cdots A$	$D\cdots A$	$D-H\cdots A$
N2—H2 \cdots O3 ⁱⁱ	0.86	2.09	2.909 (5)	158

Symmetry code: (ii) $x+1/2, -y+3/2, -z+1$.