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Bis[4-(4-pyridylmethoxy)phenol-*kN*]-silver nitrate monohydrate

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Key indicators: single-crystal X-ray study; T = 291 K; mean σ (C–C) = 0.006 Å; R factor = 0.054; wR factor = 0.115; data-to-parameter ratio = 16.7.

In the title compound, $[Ag(C_{12}H_{11}NO_{2})_2]NO_3 \cdot H_2O$, the Ag^I ion is coordinated by two N atoms from two different 4-(4pyridylmethoxy)phenol ligands, generating a nearly linear coordination geometry with an N-Ag-N angle of 167.1 (1)°. A three-dimensional supramolecular network is built from the uncoordinated nitrate anion, the water molecule and the cation through O-H···O hydrogen bonds.

Related literature

For the synthesis of the title ligand, see: Gao *et al.* (2006); Zou *et al.* (2009). For backround to metal-organic complexes with flexible pyridyl-based ligands, see: Fun *et al.* (1999); Liu *et al.* (2010); You *et al.* (2009).



Experimental

Crystal data

 $[Ag(C_{12}H_{11}NO_2)_2]NO_3 H_2O$ $M_r = 590.33$ Monoclinic, $P2_1/c$ a = 9.458 (4) Å b = 13.507 (7) Å c = 20.274 (7) Å $\beta = 111.986$ (18)°

 $V = 2401.6 (18) \text{ Å}^3$ Z = 4Mo K α radiation $\mu = 0.89 \text{ mm}^{-1}$ T = 291 K

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I = 291 K
0.21 × 0.19 × 0.18 mm
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Data collection

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Rigaku R-AXIS RAPID
diffractometer
Absorption correction: multi-scan
(ABSCOR; Higashi, 1995)
T_{\rm min} = 0.832, T_{\rm max} = 0.857
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Refinement

$R[F^2 > 2\sigma(F^2)] = 0.054$	325 parameters
$wR(F^2) = 0.115$	H-atom parameters constrained
S = 1.04	$\Delta \rho_{\rm max} = 0.28 \text{ e } \text{\AA}^{-3}$
5442 reflections	$\Delta \rho_{\rm min} = -0.38 \text{ e } \text{\AA}^{-3}$

22423 measured reflections

 $R_{\rm int} = 0.058$

5442 independent reflections

2900 reflections with $I > 2\sigma(I)$

Table 1

Hydrogen-bond geometry (Å, °).

$D - H \cdots A$	D-H	$H \cdots A$	$D \cdots A$	$D - \mathbf{H} \cdots A$
$O1-H1A\cdots O8^{i}$	0.82	1.90	2.661 (4)	155
O3−H3···O7	0.82	1.88	2.698 (5)	176
O8−H31···O7	0.85	2.05	2.885 (5)	167
$O8-H32\cdots O3^{ii}$	0.85	2.00	2.833 (4)	165

Symmetry codes: (i) -x + 2, $y + \frac{1}{2}$, $-z + \frac{3}{2}$; (ii) -x - 1, $y - \frac{1}{2}$, $-z + \frac{1}{2}$

Data collection: *RAPID-AUTO* (Rigaku, 1998); cell refinement: *RAPID-AUTO*; data reduction: *CrystalClear* (Rigaku/MSC, 2002); 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: NG2780).

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Bis[4-(4-pyridylmethoxy)phenol-*KN*]silver nitrate monohydrate

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Comment

The metal-organic compounds constructed by the pyridine-containing ligands have attracted more attention for their novel and virous structures and potential applications (Fun *et al.* 1999; Liu *et al.* 2010]. A polynuclear silver(I) complex with 2-hydroxypyridine was synthesized, and the complex maybe served as an efficient urease inhibitor (You *et al.* 2009). Based on above researches, the title compound was synthesized by reacting pyridine-containing ligand with the AgNO₃.

X-ray single-crystal analysis of title compound shows that the Ag^{I} is coordinated by two N atoms from two different 4-(4-pyridylmethoxy)-phenol ligands to generate a linear coordination geometry with the N—Ag—N angle of 167.06 (14) ° (Figure 1, Table 1). In each asymmetrical unit, the planes of the pyridine rings and benzene rings are nearly parallel and make dihedral angles of 8.462 (4)° and 7.165 (21)°. But the two ligands are vertical with the dihedral angle of two pyridine rings being 86.779 (11)°.

Two terminal hydroxyl groups, one uncoordinate water and one nitrate ion are linked together to form a three dimensional network through intermolecular O—H…O hydrogen bonds (Figure 2, Table 2).

Experimental

The synthesis of ligand see the literature (Gao *et al.* 2006; Zou *et al.* 2009). A solution of AgNO₃ (0.017 g, 0.10 mmol) in water (2 ml) was dropped slowly into a methanol solution (5 ml) of ligand (0.040 g, 2 mmol) to give a clear solution. Colourless block crystals of title were obtained by slow evaporation of the clear solution under room temperature after a week.

Refinement

H atoms bound to C atoms and hydroxyl groups were placed in calculated positions and treated as riding on their parent atoms, with C—H = 0.93 Å(aromatic C), C—H = 0.97 Å (methene C), and with $U_{iso}(H) = 1.2U_{eq}(C)$. The H atoms of water moleule were initially located in a difference Fourier map, but they were treated as riding on their parent atoms with O—H = 0.85 Å and with $U_{iso}(H) = 1.5 U_{eq}(O)$.

Figures



Fig. 1. The molecular structure of title compound, showing the atom-labelling scheme and displacement ellipsoids drawn at the 30% probability level.



Fig. 2. The crystal packing diagram of title compound, viewed along *a* axis. Dashed lines indicate hydrogen bonds, noinvolving hrdrogen atoms are omited for clarity.

F(000) = 1200

 $\theta = 3.0-27.5^{\circ}$

 $\mu = 0.89 \text{ mm}^{-1}$ T = 291 K

Block, colorless $0.21 \times 0.19 \times 0.18 \text{ mm}$

 $D_{\rm x} = 1.633 {\rm Mg m}^{-3}$

Mo *K* α radiation, $\lambda = 0.71073$ Å

Cell parameters from 11930 reflections

Bis[4-(4-pyridylmethoxy)phenol-κN]silver nitrate monohydrate

Crystal data

 $[Ag(C_{12}H_{11}NO_{2})_{2}]NO_{3} \cdot H_{2}O$ $M_{r} = 590.33$ Monoclinic, $P2_{1}/c$ Hall symbol: -P 2ybc a = 9.458 (4) Å b = 13.507 (7) Å c = 20.274 (7) Å $\beta = 111.986$ (18)° V = 2401.6 (18) Å³ Z = 4

Data collection

Rigaku R-AXIS RAPID diffractometer	5442 independent reflections
Radiation source: fine-focus sealed tube	2900 reflections with $I > 2\sigma(I)$
graphite	$R_{\rm int} = 0.058$
ω scan	$\theta_{\text{max}} = 27.5^{\circ}, \ \theta_{\text{min}} = 3.0^{\circ}$
Absorption correction: multi-scan (<i>ABSCOR</i> ; Higashi, 1995)	$h = -12 \rightarrow 12$
$T_{\min} = 0.832, T_{\max} = 0.857$	$k = -17 \rightarrow 17$
22423 measured reflections	$l = -23 \rightarrow 26$

Refinement

Refinement on F^2 Least-squares matrix: full $R[F^2 > 2\sigma(F^2)] = 0.054$ $wR(F^2) = 0.115$ S = 1.045442 reflections 325 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 $w = 1/[\sigma^2(F_o^2) + (0.0406P)^2 + 0.9527P]$ where $P = (F_o^2 + 2F_c^2)/3$ $(\Delta/\sigma)_{max} = 0.001$ $\Delta\rho_{max} = 0.28 \text{ e } \text{Å}^{-3}$ $\Delta\rho_{min} = -0.38 \text{ e } \text{Å}^{-3}$

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 (\hat{A}^2)

	x	У	Ζ	$U_{\rm iso}$ */ $U_{\rm eq}$
Ag1	0.90730 (4)	0.49819 (3)	0.766410 (16)	0.07746 (16)
01	2.1641 (3)	0.7496 (2)	1.22381 (14)	0.0838 (9)
H1A	2.2314	0.7453	1.2076	0.126*
O2	1.6021 (3)	0.6618 (2)	1.01902 (13)	0.0673 (7)
O3	-0.3575 (3)	0.6172 (2)	0.27642 (14)	0.0818 (9)
Н3	-0.3967	0.5657	0.2566	0.123*
O4	0.2108 (3)	0.5574 (2)	0.48365 (13)	0.0648 (7)
N1	1.0938 (4)	0.5514 (3)	0.85577 (17)	0.0599 (8)
N2	0.7030 (4)	0.4783 (3)	0.67566 (16)	0.0605 (9)
C1	1.8626 (4)	0.6955 (3)	1.0520 (2)	0.0616 (10)
H1	1.8487	0.6892	1.0043	0.074*
C2	2.0045 (4)	0.7167 (3)	1.1011 (2)	0.0622 (10)
H2	2.0861	0.7248	1.0866	0.075*
C3	2.0268 (4)	0.7261 (3)	1.1721 (2)	0.0596 (10)
C4	1.9048 (5)	0.7140 (3)	1.1922 (2)	0.0662 (11)
H4	1.9188	0.7203	1.2399	0.079*
C5	1.7617 (4)	0.6927 (3)	1.14314 (19)	0.0625 (11)
Н5	1.6802	0.6847	1.1578	0.075*
C6	1.7397 (4)	0.6832 (3)	1.07254 (19)	0.0557 (10)
C7	1.4773 (4)	0.6405 (3)	1.03879 (19)	0.0600 (10)
H7A	1.4508	0.6985	1.0600	0.072*
H7B	1.5037	0.5873	1.0735	0.072*
C8	1.3450 (4)	0.6102 (3)	0.97345 (19)	0.0528 (9)
C9	1.2098 (4)	0.5805 (3)	0.9801 (2)	0.0617 (11)
H9	1.2015	0.5800	1.0244	0.074*
C10	1.0896 (4)	0.5522 (3)	0.9206 (2)	0.0625 (10)
H10	1.0001	0.5323	0.9257	0.075*
C11	1.2229 (5)	0.5806 (3)	0.8502 (2)	0.0723 (12)
H11	1.2284	0.5804	0.8053	0.087*
C12	1.3483 (4)	0.6109 (3)	0.9068 (2)	0.0631 (11)
H12	1.4354	0.6318	0.8998	0.076*
C13	0.6144 (5)	0.5569 (4)	0.6534 (2)	0.0676 (11)
H13	0.6493	0.6168	0.6763	0.081*

C14	0.4742 (4)	0.5559 (3)	0.5987 (2)	0.0620 (10)
H14	0.4168	0.6136	0.5854	0.074*
C15	0.4202 (4)	0.4684 (3)	0.56382 (18)	0.0508 (9)
C16	0.5105 (5)	0.3864 (3)	0.5868 (2)	0.0653 (11)
H16	0.4781	0.3255	0.5650	0.078*
C17	0.6492 (5)	0.3944 (4)	0.6421 (2)	0.0677 (11)
H17	0.7085	0.3376	0.6568	0.081*
C18	0.2680 (4)	0.4611 (3)	0.50477 (19)	0.0562 (10)
H18A	0.2775	0.4262	0.4648	0.067*
H18B	0.1983	0.4245	0.5206	0.067*
C19	0.0684 (4)	0.5651 (3)	0.43111 (18)	0.0536 (9)
C20	-0.0174 (4)	0.4872 (3)	0.3943 (2)	0.0585 (10)
H20	0.0204	0.4230	0.4042	0.070*
C21	-0.1600 (4)	0.5033 (3)	0.34252 (19)	0.0604 (10)
H21	-0.2179	0.4500	0.3178	0.072*
C22	-0.2163 (4)	0.5970 (4)	0.32752 (19)	0.0611 (11)
C23	-0.1309 (5)	0.6762 (3)	0.3639 (2)	0.0657 (11)
H23	-0.1688	0.7403	0.3537	0.079*
C24	0.0111 (5)	0.6598 (3)	0.4155 (2)	0.0644 (11)
H24	0.0690	0.7132	0.4402	0.077*
05	-0.6790 (5)	0.5495 (3)	0.15883 (18)	0.1028 (11)
O6	-0.7139 (5)	0.3980 (4)	0.1501 (3)	0.169 (2)
07	-0.4972 (4)	0.4493 (3)	0.21269 (17)	0.0924 (10)
N3	-0.6322 (5)	0.4659 (4)	0.1726 (2)	0.0748 (11)
08	-0.4291 (3)	0.2671 (2)	0.29281 (18)	0.0947 (10)
H31	-0.4422	0.3165	0.2651	0.142*
H32	-0.4804	0.2184	0.2694	0.142*

Atomic displacement parameters (\AA^2)

	U^{11}	U^{22}	U^{33}	U^{12}	U^{13}	U^{23}
Ag1	0.0540 (2)	0.1015 (3)	0.0613 (2)	-0.01044 (19)	0.00368 (15)	-0.00670 (19)
O1	0.0576 (18)	0.114 (3)	0.0640 (17)	-0.0152 (17)	0.0045 (15)	-0.0085 (16)
O2	0.0477 (16)	0.094 (2)	0.0534 (15)	-0.0097 (15)	0.0109 (13)	0.0040 (14)
O3	0.0646 (18)	0.097 (2)	0.0640 (17)	0.0063 (17)	0.0008 (15)	0.0130 (16)
O4	0.0518 (17)	0.0639 (19)	0.0626 (16)	-0.0080 (14)	0.0031 (14)	0.0036 (14)
N1	0.049 (2)	0.061 (2)	0.059 (2)	-0.0014 (17)	0.0082 (16)	-0.0005 (16)
N2	0.050 (2)	0.078 (3)	0.0505 (18)	-0.0069 (18)	0.0148 (16)	-0.0006 (17)
C1	0.060 (3)	0.071 (3)	0.054 (2)	-0.004 (2)	0.021 (2)	0.0004 (19)
C2	0.050 (2)	0.070 (3)	0.062 (2)	-0.003 (2)	0.016 (2)	0.000 (2)
C3	0.048 (2)	0.056 (3)	0.061 (2)	-0.0021 (19)	0.005 (2)	0.0006 (19)
C4	0.063 (3)	0.080 (3)	0.049 (2)	-0.004 (2)	0.015 (2)	-0.004 (2)
C5	0.055 (2)	0.076 (3)	0.054 (2)	-0.002 (2)	0.017 (2)	0.001 (2)
C6	0.048 (2)	0.055 (3)	0.054 (2)	-0.0013 (18)	0.0072 (19)	0.0030 (18)
C7	0.046 (2)	0.071 (3)	0.057 (2)	-0.004 (2)	0.0127 (19)	-0.0061 (19)
C8	0.051 (2)	0.044 (2)	0.057 (2)	0.0041 (18)	0.0119 (18)	-0.0015 (17)
C9	0.054 (2)	0.074 (3)	0.054 (2)	-0.003 (2)	0.017 (2)	0.001 (2)
C10	0.049 (2)	0.072 (3)	0.061 (2)	-0.004 (2)	0.014 (2)	0.002 (2)

C11	0.066 (3)	0.096 (4)	0.052 (2)	-0.008 (3)	0.018 (2)	-0.002 (2)
C12	0.055 (2)	0.075 (3)	0.057 (2)	-0.012 (2)	0.017 (2)	-0.003 (2)
C13	0.066 (3)	0.067 (3)	0.062 (2)	-0.015 (2)	0.015 (2)	-0.009 (2)
C14	0.054 (3)	0.061 (3)	0.063 (2)	-0.005 (2)	0.013 (2)	0.001 (2)
C15	0.046 (2)	0.063 (3)	0.0435 (19)	-0.0065 (18)	0.0169 (17)	-0.0004 (17)
C16	0.060 (3)	0.063 (3)	0.061 (2)	0.002 (2)	0.010 (2)	-0.010 (2)
C17	0.062 (3)	0.074 (3)	0.057 (2)	0.005 (2)	0.012 (2)	-0.001 (2)
C18	0.052 (2)	0.065 (3)	0.049 (2)	-0.005 (2)	0.0150 (19)	-0.0022 (18)
C19	0.046 (2)	0.065 (3)	0.048 (2)	-0.009 (2)	0.0151 (18)	0.0033 (19)
C20	0.055 (2)	0.058 (3)	0.057 (2)	0.001 (2)	0.0141 (19)	-0.0002 (19)
C21	0.059 (2)	0.071 (3)	0.0472 (19)	-0.010 (2)	0.0144 (18)	-0.006 (2)
C22	0.056 (3)	0.079 (3)	0.044 (2)	0.000 (2)	0.0134 (19)	0.008 (2)
C23	0.072 (3)	0.057 (3)	0.063 (2)	0.006 (2)	0.019 (2)	0.011 (2)
C24	0.065 (3)	0.061 (3)	0.057 (2)	-0.009 (2)	0.010 (2)	0.002 (2)
O5	0.110 (3)	0.107 (3)	0.076 (2)	0.020 (3)	0.017 (2)	0.013 (2)
O6	0.090 (3)	0.114 (4)	0.244 (6)	-0.034 (3)	-0.006 (3)	-0.019 (4)
O7	0.054 (2)	0.119 (3)	0.088 (2)	0.0052 (19)	0.0086 (18)	-0.010 (2)
N3	0.056 (3)	0.097 (4)	0.066 (2)	-0.005 (2)	0.017 (2)	-0.007 (2)
08	0.072 (2)	0.089 (2)	0.115 (3)	-0.0035 (18)	0.0242 (19)	-0.0212 (19)

Geometric parameters (Å, °)

Ag1—N1	2.126 (3)	C10—H10	0.9300
Ag1—N2	2.128 (3)	C11—C12	1.368 (5)
O1—C3	1.366 (4)	C11—H11	0.9300
O1—H1A	0.8200	C12—H12	0.9300
O2—C6	1.377 (4)	C13—C14	1.374 (5)
O2—C7	1.411 (4)	С13—Н13	0.9300
O3—C22	1.377 (4)	C14—C15	1.374 (5)
O3—H3	0.8201	C14—H14	0.9300
O4—C19	1.373 (4)	C15—C16	1.370 (5)
O4—C18	1.411 (5)	C15—C18	1.491 (5)
N1—C11	1.328 (5)	C16—C17	1.375 (5)
N1—C10	1.330 (5)	C16—H16	0.9300
N2—C17	1.321 (5)	С17—Н17	0.9300
N2—C13	1.323 (5)	C18—H18A	0.9700
C1—C2	1.369 (5)	C18—H18B	0.9700
C1—C6	1.384 (5)	C19—C20	1.368 (5)
C1—H1	0.9300	C19—C24	1.379 (5)
C2—C3	1.380 (5)	C20—C21	1.382 (5)
С2—Н2	0.9300	C20—H20	0.9300
C3—C4	1.371 (5)	C21—C22	1.362 (5)
C4—C5	1.376 (5)	C21—H21	0.9300
C4—H4	0.9300	C22—C23	1.377 (6)
C5—C6	1.373 (5)	C23—C24	1.376 (5)
С5—Н5	0.9300	С23—Н23	0.9300
C7—C8	1.499 (5)	C24—H24	0.9300
С7—Н7А	0.9700	O5—N3	1.206 (5)
С7—Н7В	0.9700	O6—N3	1.176 (5)

C8—C12	1.364 (5)	O7—N3	1.251 (5)
C8—C9	1.394 (5)	O8—H31	0.8500
C9—C10	1.367 (5)	O8—H32	0.8499
С9—Н9	0.9300		
N1—Ag1—N2	167.10 (13)	C8—C12—C11	119.7 (4)
C3—O1—H1A	109.5	C8—C12—H12	120.2
C6—O2—C7	117.6 (3)	C11—C12—H12	120.2
С22—О3—Н3	109.5	N2-C13-C14	124.3 (4)
C19—O4—C18	117.3 (3)	N2-C13-H13	117.8
C11—N1—C10	116.8 (3)	С14—С13—Н13	117.8
C11—N1—Ag1	121.6 (3)	C15—C14—C13	119.0 (4)
C10—N1—Ag1	121.5 (3)	C15—C14—H14	120.5
C17—N2—C13	116.1 (4)	C13—C14—H14	120.5
C17—N2—Ag1	127.1 (3)	C16—C15—C14	117.1 (4)
C13—N2—Ag1	116.6 (3)	C16—C15—C18	120.7 (4)
C2—C1—C6	120.8 (4)	C14—C15—C18	122.1 (4)
C2—C1—H1	119.6	C15—C16—C17	119.9 (4)
C6—C1—H1	119.6	С15—С16—Н16	120.1
C1—C2—C3	120.2 (4)	С17—С16—Н16	120.1
C1—C2—H2	119.9	N2—C17—C16	123.5 (4)
С3—С2—Н2	119.9	N2—C17—H17	118.2
O1—C3—C4	117.6 (3)	С16—С17—Н17	118.2
O1—C3—C2	123.5 (4)	O4—C18—C15	109.1 (3)
C4—C3—C2	118.8 (4)	O4—C18—H18A	109.9
C3—C4—C5	121.3 (4)	C15—C18—H18A	109.9
C3—C4—H4	119.3	O4—C18—H18B	109.9
C5—C4—H4	119.3	C15—C18—H18B	109.9
C6—C5—C4	119.8 (4)	H18A—C18—H18B	108.3
С6—С5—Н5	120.1	C20—C19—O4	125.0 (4)
С4—С5—Н5	120.1	C20—C19—C24	119.1 (4)
C5—C6—O2	124.8 (3)	O4—C19—C24	115.8 (4)
C5—C6—C1	119.1 (4)	C19—C20—C21	120.3 (4)
O2—C6—C1	116.2 (3)	С19—С20—Н20	119.9
02	108.4 (3)	C21—C20—H20	119.9
02—C7—H7A	110.0	C22-C21-C20	120.4 (4)
С8—С7—Н7А	110.0	C22—C21—H21	119.8
O2—C7—H7B	110.0	C20—C21—H21	119.8
С8—С7—Н7В	110.0	$C_{21} - C_{22} - C_{23}$	120.0 (4)
H7A—C7—H7B	108.4	$C_{21} - C_{22} - O_{3}$	122.7 (4)
C12—C8—C9	117.4 (4)	C23—C22—O3	117.3 (4)
C12—C8—C7	123.5 (4)	C24—C23—C22	119.5 (4)
C9—C8—C7	119.0 (3)	C24—C23—H23	120.2
C10—C9—C8	119.0 (4)	С22—С23—Н23	120.2
С10—С9—Н9	120.5	C23—C24—C19	120.7 (4)
С8—С9—Н9	120.5	C23—C24—H24	119.6
N1—C10—C9	123.5 (4)	C19—C24—H24	119.6
N1—C10—H10	118.2	O6—N3—O5	120.7 (5)
С9—С10—Н10	118.2	O6—N3—O7	118.3 (5)
N1—C11—C12	123.6 (4)	O5—N3—O7	121.0 (5)

N1-C11-H11	118.2	H31—O8—H32	1	09.0
C12—C11—H11	118.2			
Hydrogen-bond geometry (Å, °)				
D—H···A	<i>D</i> —Н	H···A	$D \cdots A$	<i>D</i> —H… <i>A</i>
O1—H1A···O8 ⁱ	0.82	1.90	2.661 (4)	155.
O3—H3…O7	0.82	1.88	2.698 (5)	176.
O8—H31…O7	0.85	2.05	2.885 (5)	167.
08—H32···O3 ⁱⁱ	0.85	2.00	2.833 (4)	165.
Symmetry codes: (i) $-x+2$, $y+1/2$, $-z+3$	/2; (ii) -x-1, y-1/2, -z+	1/2.		

Fig. 1





Fig. 2