

Received 18 January 2019 Accepted 24 January 2019

Edited by M. Zeller, Purdue University, USA

Keywords: co-crystallization; acid salts; crystal structure; molecular conformation; hydrogen bonding; supramolecular assembly.

CCDC references: 1883983; 1883984

Supporting information: this article has supporting information at journals.iucr.org/e

Co-crystallization of 3,5-dinitrobenzoic acid with two antipsychotic agents: a simple 1:1 salt with trihexyphenidyl and a 1:2 acid salt containing a very short O—H···O hydrogen bond with chlorprothixene

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Co-crystallization of racemic 1-cyclohexyl-1-phenyl-3-(piperidin-1-yl)propan-1ol (trihexyphenidyl) with 3,5-dinitrobenzoic acid gives a simple 1:1 salt, namely 1-(3-cyclohexyl-3-hydroxy-3-phenylpropyl)piperidin-1-ium 3,5-dinitrobenzoate, $C_{20}H_{32}NO^+ C_7H_3N_2O_6^-$, (I), whereas a similar co-crystallization using (Z)-3-(2chloro-9*H*-thioxanthen-9-yl)-*N*,*N*-dimethylpropan-1-amine (chlorprothixene) gives a 1:2 acid salt, namely (Z)-3-(2-chloro-9H-thioxanthen-9-vl)-N,N-dimethylpropan-1-aminium hydrogen bis(3,5-dinitrobenzoate), C₁₈H₁₉ClNS⁺·- $[H(C_7H_3N_2O_6)_2]^-$, (II), the anion of which contains a very short $O-H\cdots O$ hydrogen bond, with dimensions O-H = 1.04 (3) Å, $H \cdots O = 1.41$ (3) Å, $O \cdots O = 2.4197 (15) \text{ Å}$ and $O - H \cdots O = 161 (3)^{\circ}$. In the cation of (I), the cyclohexyl and piperidyl rings both adopt chair conformations, whereas in the cation of (II), the central heterocyclic ring adopts a boat conformation, so that the dihedral angle between the two aryl rings is $41.56 (4)^{\circ}$. A combination of $O-H \cdots O, N-H \cdots O$ and $C-H \cdots O$ hydrogen bonds links the ions of (I) into a complex chain of rings, and these chains are linked into sheets by $\pi - \pi$ stacking interactions between inversion-related pairs of anions. In compound (II), a different combination of O-H···O, N-H···O and C-H···O hydrogen bonds links the ions into sheets. Comparisons are made with some related structures.



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1. Chemical context

1-Cyclohexyl-1-phenyl-3-(piperidin-1-yl)propan-1-ol, trihexy-3-(2-chloro-9H-thioxanthen-9-yl)-N.N-diphenidyl, and methylpropan-1-amine, chlorprothixene, can both be used in the treatment of psychotic depression (Roth et al., 1994; Seeman & Tallerico, 1998; Silvestre & Prous, 2005). In addition, trihexyphenidyl is well established as a treatment for symptomatic relief in cases of Parkinson's disease (Doshay et al., 1954). Trihexyphenidyl is generally administered as the hydrochloride salt but, although the structures have been reported for both neutral trihexyphenidyl (Camerman & Camerman, 1972) and neutral chlorprothixene (Post et al., 1974), there are few reported structures for salts derived from either of these two bases, although we note a powder diffraction study of trihexiphenidyl hydrochloride (Maccaroni *et al.*, 2010). Accordingly, we have now investigated the salts formed by trihexyphenidyl and chlorprothixene with 3,5-dinitrobenzoic acid. Crystallization of equimolar mixtures of racemic trihexiphenydine or (Z)-chlorprothixene with 3,5dintrobenzoic acid yielded a simple 1:1 salt in the case of trihexyphenidyl (Fig. 1), but a 1:2 acid salt in the case of chlorprothixene (Fig. 2): within fairly wide limits, regardless of the initial stoichiometry of the co-crystallization mixtures, the same products were always obtained.



2. Structural commentary

Co-crystallization from a methanol solution containing equimolar quantities of racemic trihexyphenidine and 3,5-dinitrobenzoic acid gave a simple 1:1 salt (I) (Fig. 1), but a similar crystallization using equimolar quantities of (Z)-3-(2chloro-9*H*-thioxanthen-9-yl)-*N*,*N*-dimethylpropan-1-amine and 3,5-dinitrobenzoic acid gave an acid salt (II) containing the hydrogen bis(3,5-dinitrobenzoate) anion (Fig. 2). Within



Figure 1

The molecular structure of compound (I), showing the (S)-enantiomer of the cation, the atom-labelling scheme and the hydrogen bonds, drawn as dashed lines, within the selected asymmetric unit. Displacement ellipsoids are drawn at the 50% probability level.

this anion, the O-H···O hydrogen bond (Table 2) is very short (Speakman, 1972; Emsley, 1980; Gerlt *et al.*, 1997) but, although it is nearly linear, it is not symmetric as the two independent O-H distances are significantly different (Table 2).

In the selected asymmetric unit of (I) (Fig. 1), the ionic components are linked by just two hydrogen bonds, one each of $O-H\cdots O$ and $N-H\cdots O$ types (Table 1), to form a compact unit containing an $R_2^2(10)$ (Etter, 1990; Etter *et al.*,





The molecular structure of compound (II) showing the atom-labelling scheme and the hydrogen bonds, drawn as dashed lines, within the selected asymmetric unit. Displacement ellipsoids are drawn at the 50% probability level.

research communications

Table 1	
Hydrogen-bond geometry (Å, $^{\circ}$) for (I).	

$D - H \cdots A$	$D - H \cdots $	H H···A D ···A
$O1 - H1 \cdots O412$ $N31 - H31 \cdots O411$ $C33 - H334 \cdots O452^{i}$	165.9 (16) 175.7 (14)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$C36-H36A\cdots O1^{ii}$ $C36-H36A\cdots O412^{ii}$	144 148	$\begin{array}{cccc} 2.49 & 3.4202 (17) \\ 2.56 & 3.4025 (16) \\ 2.51 & 3.3949 (19) \end{array}$
$C36-H36A\cdots O1$ $C36-H36A\cdots O412^{ii}$,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Symmetry codes: (i) -x + 1, -y, -z; (ii) -x + 1, -y + 1, -z + 1.

1990; Bernstein et al., 1995) ring. By contrast, within the selected asymmetric unit of (II), the components are linked not only by the short $O-H \cdots O$ hydrogen bond referred to above, but also by a three-centre $N-H \cdots (O)_2$ hydrogen bond and a two-centre $C-H \cdots O$ hydrogen bond (Fig. 2, Table 2).

The cyclohexyl and piperidyl rings in the cation of compound (I) both adopt chair conformations with the sole C-substituent occupying an equatorial site in each case (Fig. 1). In the cation of compound (II), the dihedral angle between the two aryl rings is $41.56 (4)^{\circ}$, indicating a butterfly conformation for the tricyclic component; the central ring adopts a boat conformation where the atoms C14A, C14B, C18A and C18B are coplanar with the atoms C19 and S10, which form the bow and stern of the boat (Fig. 3), displaced from the plane of the other four ring atoms by 0.456 (2) and 0.541 (2) Å respectively. The ring-puckering parameters calculated for the atom sequence (S10, C14A, C18B, C19, C18A, C14B) are Q =0.5721 (12) Å, $\theta = 86.71 (13)^{\circ}$ and $\varphi = 0.53 (14)^{\circ}$: for an idealized boat form the puckering angles are $\theta = 90.0^{\circ}$ and $\varphi =$ $60k^{\circ}$, where k represents an integer (Boeyens, 1978).

In the anion of (I), the nitro group containing atom N43 forms a dihedral angle of only $3.03 (3)^\circ$ with the adjacent ring, but the other nitro group and the carboxylate group form angles of 21.3 (2) and 20.4 (2) $^{\circ}$, respectively. Comparable differences are observed also in the anionic component of (II), where the carboxylate groups form dihedral angles with the adjacent rings of 3.6 (2) and 11.8 (2) $^{\circ}$, while the corresponding angles for the four nitro groups range from 3.5 (2) to $18.2 (2)^{\circ}$.

3. Supramolecular features

In addition to the hydrogen bonds within the selected asymmetric unit of compound (I) (Fig. 1, Table 1), the resulting ion-



The boat conformation of the thiopyran ring in compound (II), including all the immediate ring substituent atoms.

pairs are linked by three independent C-H···O hydrogen bonds, which together generate a complex chain structure (Fig. 4). The hydrogen bond involving atom C33 as the donor links inversion-related pairs of cations and anions to form a four-ion aggregate characterized by an $R_4^4(24)$ motif. The hydrogen bond involving atom C36 as the donor, by contrast, forms an almost planar three-centre $C-H \cdot \cdot \cdot (O)_2$ system, again linking inversion-related ion pairs to form a complex motif in which a central $R_2^2(14)$ ring containing only cations is concentric with an outer $R_4^4(14)$ motif involving both cations and anions. The $R_4^4(24)$ rings are centred at $(\frac{1}{2}, n, n)$ and the fourteen-membered rings are centred at $(\frac{1}{2}, n + \frac{1}{2}, n + \frac{1}{2})$, where n represents an integer in each case, so forming a chain of rings running parallel to the [011] direction (Fig. 4). Chains of this type are linked by a π - π stacking interaction involving the anions at (x, y, z) and (1 - x, -y, 1 - z). These rings are strictly parallel, with an interplanar spacing of 3.4413 (6) Å: the ring-centroid separation is 3.5231 (10) Å, corresponding to





Part of the crystal structure of compound (I) showing the formation of a hydrogen-bonded chain of rings parallel to [011]. Hydrogen bonds are drawn as dashed lines and, for the sake of clarity, the H atoms bonded to the C atoms which are not involved in the motifs shown have been omitted.

Table 2Hydrogen-bond geometry (Å, $^\circ)$ for (II).

$D - H \cdots A$	D-H	$H \cdot \cdot \cdot A$	$D \cdot \cdot \cdot A$	$D - H \cdots A$
N1-H1···O212	0.866 (17)	2.046 (17)	2.7476 (16)	137.9 (15)
N1-H1···O311	0.866(17)	2.485 (17)	2.9848 (16)	117.5 (14)
O312−H312···O211	1.04 (3)	1.41 (3)	2.4197 (15)	161 (3)
$C1 - H1B \cdots O211^{i}$	0.99	2.36	3.2621 (18)	151
$C14-H14\cdots O232^{ii}$	0.95	2.41	3.2917 (19)	155
C18−H18···O231	0.95	2.53	3.4386 (19)	161

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

a ring-centroid offset of 0.755 (2) Å (Fig. 5), and this interaction links the hydrogen-bonded chains into a sheet lying parallel to (100).

In the structure of compound (II) there are just two C– H···O hydrogen bonds linking the ion-pairs (Fig. 2, Table 2) into sheets, whose formation is most easily analysed in terms of two simple-one-dimensional sub-structures (Ferguson *et al.*, 1998*a,b*; Gregson *et al.*, 2000). The hydrogen bond involving atom C14 as the donor links the ions into a $C_2^2(7)$ chain running parallel to the [010] direction (Fig. 6), while that having atom C1 as the donor generates a second $C_2^2(7)$ chain, this time running parallel to the [001] direction (Fig. 7). The combination of chains running parallel to [010] and [001] suffices to generate a sheet lying parallel to (100). The only



significant π - π stacking interactions lie within the hydrogenbonded sheets, rather than between adjacent sheets, so that the supramolecular assembly is strictly two-dimensional.

4. Database survey

It is of interest briefly to note the structures of some compounds related to (I) and (II). In neutral trihexyphenidyl, there is an intramolecular $O-H\cdots N$ hydrogen bond forming an S(6) motif, but there are no significant direction-specific interactions between the molecules (Camerman & Camerman, 1972), while in the hydrochloride salt (Maccaroni *et al.*, 2010), a combination of $O-H\cdots Cl$ and $N-H\cdots Cl$ hydrogen bonds links the ions into $C_2^1(7)$ chains. By contrast, in the hydrochloride salt of procyclidine, which differs from trihexy-



Figure 5

Part of the crystal structure of compound (I) showing the π - π stacking overlap between the anions at (x, y, z) and (1 - x, -y, 1 - z). For the sake of clarity, the unit-cell outline and all of the H atoms have been omitted. The atoms marked with an asterisk (*) are at the symmetry position (1 - x, -y, 1 - z).

Figure 6

Part of the crystal structure of compound (II) showing the formation of a hydrogen-bonded $C_2^2(7)$ chain running parallel to the [010] direction. Hydrogen bonds are drawn as dashed lines and, for the sake of clarity, the H atoms not involved in the motif shown have been omitted.



Figure 7

Part of the crystal structure of compound (II) showing the formation of a hydrogen-bonded $C_2^2(7)$ chain running parallel to the [001] direction. Hydrogen bonds are drawn as dashed lines and, for the sake of clarity, the H atoms bonded to the C atoms which are not involved in the motif shown have been omitted.

phenidyl only in having a pyrrolidine ring in place of the piperidine ring, a combination of O-H···Cl and N-H···Cl hydrogen bonds generates an $R_2^1(8)$ ring, so that the hydrogenbonded structure consists of ion pairs rather than chains (Camerman & Camerman, 1971). Neutral 3-(2-chloro-9Hthioxanthen-9-yl)-N,N-dimethylpropan-1-amine can exist in (E) and (Z) isomers, and the structures of both forms have been reported (Post et al., 1974; Sylte & Dahl, 1991). Flupenthixol (sometimes called flupentixol) is an antipsychotic agent related to chlorprothixene, but having a trifluoromethyl substituent in place of the chloro substituent and a 4(2-hydroxyethyl)piperazine substituent in place of the dimethylamino group: the structures of both the E and Zisomers have been reported (Post et al., 1975a,b), as have those of the dihydrochloride salt (Siddegowda et al., 2011) and the tartrate salt (Yamuna et al., 2014).

Very short $O-H\cdots O$ hydrogen bonds have been reported in a number of acid salts derived from simple carboxylic acids. In some examples, the anion lies across a symmetry element so that the two O-H distances are identical. Thus, for example, in sodium hydrogendiacetate the anion lies across a twofold rotation axis with an $O\cdots O$ distance of 2.475 (2) Å (Barrow *et al.*, 1975), while in the analogous potassium salt, which is polymeric, the asymmetric $O-H\cdots O$ unit has an $O\cdots O$ distance of 2.486 Å [CSD (Groom *et al.*, 2016) refcode KHACET02; Courtney & Fronczec, 2005: there are no s.u. values given for the deposited atomic coordinates]. In potassium hydrogenbis(trichloroacetate) (CSD refcode KBTCAC02; Muir et al., 2001), the asymmetric hydrogen bond has an $O \cdots O$ distance of 2.4496 Å (again, there are no s.u. values for the deposited atomic coordinates). By contrast, the anion in sodium hydrogenbis(phenoxyacetate) lies across a twofold rotation axis with an $O \cdots O$ distance of 2.413 (2) Å (Evans et al., 2001). The anions in both ethylenediammonium hydrogenbis(3,5-dinitrobenzoate (Jones et al., 2005) and 2-pyridyl-4'-pyridinium hydrogenbis(3,5-dinitrobenzoate (Chantrapromma et al., 2002) lie in a general position, with O···O distances of 2.507 (2) and 2.579 (2) Å, respectively, in asymmetric $O-H \cdots O$ hydrogen bonds. Finally, we note the extremely short $O \cdots O$ distance of 2.29 (2) Å reported for the simple anion $[H(OH)_2]^-$, which lies across a centre of inversion in a mixed salt containing both sodium and methyltriethylammonium cations, as well as tris(thiobenzohydroximato)chromium(III) anions and water molecules (Abu-Dari et al., 1979).

5. Synthesis and crystallization

Samples of racemic trihexyphenidine and (Z)-chlorprothixene were gifts from RL Fine Chem Pvt. Ltd., Bengaluru, India. For the synthesis of compound (I), equimolar quantities of trihexyphenidine and 3,5-dinitrobenzoic acid (0.33 mmol of each) were dissolved in hot methanol (10 ml) and the resulting solution was stirred at 333 K for 30 min. The solution was then allowed to cool to ambient temperature, and the resulting crystalline product was collected by filtration. For the synthesis of (II), equimolar quantities of chlorprothixene and 3,5dinitrobenzoic acid (0.60 mmol of each) were dissolved in hot methanol (10 ml) and the resulting solution was stirred at 333 K for 10 min. The solution was then allowed to cool to ambient temperature, and the resulting crystalline product was collected by filtration. Use of initial molar ratios in the range 5:1 to 1:5 always yielded the same products (I) and (II). Crystals of (I) and (II) suitable for single-crystal X-ray diffraction were grown by slow evaporation, at ambient temperature and in the presence of air, of solutions in methanol-dimethylsulfoxide (1:1, v/v) and N,N-dimethylformamide.

6. Refinement

Crystal data, data collection and structure refinement details are summarized in Table 3. All H atoms were located in difference maps. The H atoms bonded to C atoms were then treated as riding atoms in geometrically idealized positions with C-H distances 0.95 Å (aromatic), 0.98 Å (CH₃), 0.99 Å (CH₂) or 1.00 Å (aliphatic C-H) and with $U_{iso}(H) = kU_{eq}(C)$, where k = 1.5 for the methyl groups, which were permitted to rotate but not to tilt, and 1.2 for all other H atoms bonded to C atoms. For atom H312 in the short O-H···O hydrogen bond, the atomic coordinates and the $U_{iso}(H)$ value were all refined;

Table 3Experimental details.

	(I)	(II)
Crystal data		
Chemical formula	$C_{20}H_{22}NO^+ \cdot C_7H_2N_2O_6^-$	$C_{10}H_{10}CINS^+ \cdot C_7H_2N_2O_6^- \cdot C_7H_4N_2O_6$
<i>M</i> .	513.58	740.09
Crystal system, space group	Triclinic, $P\overline{1}$	Monoclinic, $P2_1/c$
Temperature (K)	173	173
a, b, c (Å)	11.2743 (12), 11.2898 (12), 12.6478 (13)	11.3454 (8), 24.3857 (16), 11.6098 (8)
α, β, γ (°)	111.923 (1), 114.325 (1), 95.903 (1)	90, 93.691 (1), 90
$V(A^3)$	1296.6 (2)	3205.4 (4)
Z	2	4
Radiation type	Μο Κα	Μο Κα
$\mu (\text{mm}^{-1})$	0.10	0.26
Crystal size (mm)	$0.61 \times 0.58 \times 0.13$	$0.57 \times 0.32 \times 0.30$
Data collection		
Diffractometer	Bruker APEXII CCD	Bruker APEXII CCD
Absorption correction	Multi-scan (SADABS; Bruker, 2015)	Multi-scan (SADABS; Bruker, 2015)
T_{\min}, \hat{T}_{\max}	0.944, 0.988	0.866, 0.927
No. of measured, independent and observed $[I > 2\sigma(I)]$ reflections	7191, 5525, 4819	17539, 7139, 6365
R _{int}	0.013	0.022
$(\sin \theta / \lambda)_{\max} (\text{\AA}^{-1})$	0.650	0.648
Refinement		
$R[F^2 > 2\sigma(F^2)], wR(F^2), S$	0.040, 0.109, 1.07	0.036, 0.098, 1.04
No. of reflections	5525	7139
No. of parameters	340	469
H-atom treatment	H atoms treated by a mixture of independent	H atoms treated by a mixture of independent
	and constrained refinement	and constrained refinement
$\Delta \rho_{\rm max}, \Delta \rho_{\rm min} \ ({\rm e} \ {\rm \AA}^{-3})$	0.32, -0.22	0.53, -0.40

Computer programs: APEX2 (Bruker, 2014), SAINT (Bruker, 2015), SHELXS97 (Sheldrick, 2008), SHELXL2014 (Sheldrick, 2015) and PLATON (Spek, 2009).

for the remaining H atoms bonded to N or O atoms, the atomic coordinates were refined with $U_{iso}(H) = 1.2U_{eq}(N)$ or $1.5U_{eq}(O)$. The resulting N—H and O—H distances are given in Tables 1 and 2. For compound (II), the largest peak in the final difference map, $0.53 \text{ e} \text{ Å}^{-3}$, was located near the bond C17—H17, at distances from these two atoms of 1.40 and 0.62 Å, but no plausible chemical interpretation of this seems possible.

Acknowledgements

MAES is grateful to the University of Mysore for research facilities.

Funding information

HSY is grateful to the UGC, New Delhi, for the award of a BSR Faculty Fellowship for three years.

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Acta Cryst. (2019). E75, 292-298 [https://doi.org/10.1107/S2056989019001385]

Co-crystallization of 3,5-dinitrobenzoic acid with two antipsychotic agents: a simple 1:1 salt with trihexyphenidyl and a 1:2 acid salt containing a very short O—H…O hydrogen bond with chlorprothixene

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Computing details

For both structures, data collection: *APEX2* (Bruker, 2014); cell refinement: *SAINT* (Bruker, 2015); data reduction: *SAINT* (Bruker, 2015); program(s) used to solve structure: *SHELXS97* (Sheldrick, 2008); program(s) used to refine structure: *SHELXL2014* (Sheldrick, 2015); molecular graphics: *PLATON* (Spek, 2009); software used to prepare material for publication: *SHELXL2014* (Sheldrick, 2015) and *PLATON* (Spek, 2009).

1-(3-Cyclohexyl-3-hydroxy-3-phenylpropyl)piperidin-1-ium 3,5-dinitrobenzoate (I)

Crystal data

 $C_{20}H_{32}NO^+ C_7H_3N_2O_6^ M_r = 513.58$ Triclinic, *P*1 a = 11.2743 (12) Å b = 11.2898 (12) Å c = 12.6478 (13) Å $a = 111.923 (1)^\circ$ $\beta = 114.325 (1)^\circ$ $\gamma = 95.903 (1)^\circ$ $V = 1296.6 (2) Å^3$

Data collection

Bruker APEXII CCD diffractometer Radiation source: fine focus sealed tube Graphite monochromator Detector resolution: 0.3333 pixels mm⁻¹ φ and ω scans Absorption correction: multi-scan (SADABS; Bruker, 2015) $T_{\min} = 0.944, T_{\max} = 0.988$

Refinement

Refinement on F^2 Least-squares matrix: full $R[F^2 > 2\sigma(F^2)] = 0.040$ $wR(F^2) = 0.109$ Z = 2 F(000) = 548 $D_x = 1.315 \text{ Mg m}^{-3}$ Mo K\alpha radiation, $\lambda = 0.71073 \text{ Å}$ Cell parameters from 5525 reflections $\theta = 2.0-27.5^{\circ}$ $\mu = 0.10 \text{ mm}^{-1}$ T = 173 KPlate, colourless $0.61 \times 0.58 \times 0.13 \text{ mm}$

7191 measured reflections 5525 independent reflections 4819 reflections with $I > 2\sigma(I)$ $R_{int} = 0.013$ $\theta_{max} = 27.5^{\circ}, \theta_{min} = 2.0^{\circ}$ $h = -7 \rightarrow 14$ $k = -14 \rightarrow 13$ $l = -16 \rightarrow 15$

S = 1.075525 reflections 340 parameters 0 restraints

Hydrogen site location: mixed	$w = 1/[\sigma^2(F_o^2) + (0.0513P)^2 + 0.3666P]$
H atoms treated by a mixture of independent	where $P = (F_o^2 + 2F_c^2)/3$
and constrained refinement	$(\Delta/\sigma)_{\rm max} < 0.001$
	$\Delta \rho_{\rm max} = 0.32 \text{ e} \text{ Å}^{-3}$
	$\Delta \rho_{\rm min} = -0.22 \text{ e} \text{ Å}^{-3}$

Special details

Geometry. All esds (except the esd in the dihedral angle between two l.s. planes) are estimated using the full covariance matrix. The cell esds are taken into account individually in the estimation of esds in distances, angles and torsion angles; correlations between esds in cell parameters are only used when they are defined by crystal symmetry. An approximate (isotropic) treatment of cell esds is used for estimating esds involving l.s. planes.

Fractional atomic coordinates and isotropic or equivalent isotropic displacement parameters (A^2)

	x	У	Ζ	$U_{ m iso}$ */ $U_{ m eq}$
C1	0.12573 (11)	0.36273 (11)	0.26416 (10)	0.0190 (2)
O1	0.21852 (9)	0.39505 (9)	0.39566 (8)	0.0248 (2)
H1	0.2717 (18)	0.3492 (17)	0.3928 (16)	0.037*
C2	0.19972 (12)	0.32806 (11)	0.18280 (11)	0.0208 (2)
H2A	0.2296	0.2489	0.1838	0.025*
H2B	0.1354	0.3047	0.0911	0.025*
C3	0.32358 (12)	0.44489 (12)	0.23607 (12)	0.0225 (2)
H3A	0.2942	0.5043	0.1959	0.027*
H3B	0.3615	0.4976	0.3315	0.027*
C11	0.07862 (11)	0.48561 (11)	0.26615 (11)	0.0199 (2)
C12	-0.00040 (13)	0.48954 (13)	0.14936 (12)	0.0266 (3)
H12	-0.0193	0.4184	0.0688	0.032*
C13	-0.05172 (14)	0.59666 (15)	0.14980 (14)	0.0329 (3)
H13	-0.1029	0.5994	0.0699	0.039*
C14	-0.02874 (15)	0.69892 (14)	0.26556 (15)	0.0343 (3)
H14	-0.0662	0.7705	0.2652	0.041*
C15	0.04917 (14)	0.69630(13)	0.38178 (14)	0.0312 (3)
H15	0.0659	0.7667	0.4618	0.037*
C16	0.10342 (13)	0.59084 (12)	0.38237 (12)	0.0262 (3)
H16	0.1580	0.5908	0.4630	0.031*
C21	-0.00168 (12)	0.24305 (11)	0.20637 (11)	0.0213 (2)
H21	-0.0682	0.2300	0.1179	0.026*
C22	0.03208 (14)	0.11178 (13)	0.19039 (14)	0.0304 (3)
H22A	0.1027	0.1243	0.2761	0.037*
H22B	0.0703	0.0885	0.1301	0.037*
C23	-0.09347 (16)	-0.00389 (13)	0.13718 (15)	0.0358 (3)
H23A	-0.1593	-0.0241	0.0468	0.043*
H23B	-0.0654	-0.0848	0.1343	0.043*
C24	-0.16323 (16)	0.02887 (14)	0.22054 (15)	0.0373 (3)
H24A	-0.2476	-0.0453	0.1795	0.045*
H24B	-0.1018	0.0384	0.3080	0.045*
C25	-0.19849 (15)	0.15810 (14)	0.23433 (16)	0.0373 (3)
H25A	-0.2393	0.1807	0.2925	0.045*
H25B	-0.2670	0.1454	0.1477	0.045*

H26A -0.0063 0.2902 0.3798 0.035^* H26B -0.0982 0.3556 0.2967 0.035^* N31 $0.43308(10)$ $0.39959(10)$ $0.20951(9)$ $0.0199(2)$ H31 $0.4499(14)$ $0.3329(15)$ $0.2365(14)$ 0.024^* C32 $0.39085(13)$ $0.33636(15)$ $0.06744(12)$ $0.0297(3)$ H32A 0.3700 0.4022 0.0337 0.036^* C33 $0.50410(14)$ $0.28851(17)$ $0.04548(13)$ $0.0387(3)$ H33A 0.4756 0.2497 -0.0487 0.046^* C34 $0.63655(15)$ $0.40357(17)$ $0.12266(15)$ $0.0400(3)$ H34A 0.7101 0.3692 0.1114 0.048^* C35 $0.67691(14)$ $0.46939(15)$ $0.26640(14)$ $0.0349(3)$ H35A 0.6995 0.4051 0.3019 0.042^* C36 $0.56213(13)$ $0.51417(13)$ $0.28592(13)$ $0.0314(3)$ H36A 0.5894 0.5532 0.3798 0.038^* C41 0.5794 0.5478 0.3149 0.042^* C36 $0.56213(13)$ $0.51417(12)$ $0.65226(12)$ $0.0236(2)$ C42 $0.60720(13)$ $0.19029(12)$ $0.58292(12)$ $0.0236(3)$ C43 $0.69222(13)$ $0.1347(13)$ $0.59588(13)$ $0.0273(3)$ H42 0.5743 0.2571 0.6242 0.030^* C43 $0.69222(13)$ $0.1347(13)$ $0.59588(13)$ $0.0273(3)$ H44 0.7981 -0.0018 </th <th>C26</th> <th>-0.07169 (14)</th> <th>0.27333 (13)</th> <th>0.29049 (14)</th> <th>0.0295 (3)</th>	C26	-0.07169 (14)	0.27333 (13)	0.29049 (14)	0.0295 (3)
H26B -0.0982 0.3556 0.2967 $0.035*$ N31 $0.43308(10)$ $0.39959(10)$ $0.20951(9)$ $0.0199(2)$ H31 $0.4499(14)$ $0.3329(15)$ $0.2365(14)$ $0.024*$ C32 $0.39085(13)$ $0.3366(15)$ $0.06744(12)$ $0.0297(3)$ H32A 0.3700 0.4022 0.0337 $0.036*$ H32B 0.3070 0.2594 0.0189 $0.036*$ C33 $0.50410(14)$ $0.28851(17)$ $0.04548(13)$ $0.0387(3)$ H33A 0.4756 0.2497 -0.0487 $0.046*$ H33B 0.5196 0.2174 0.0728 $0.046*$ C34 $0.63655(15)$ $0.40357(17)$ $0.12266(15)$ $0.0400(3)$ H34A 0.7101 0.3692 0.1114 $0.048*$ C35 $0.67691(14)$ 0.4705 0.0893 $0.044*$ C35 $0.67691(14)$ 0.4705 $0.26640(14)$ $0.0349(3)$ H35A 0.6995 0.4051 0.3019 $0.042*$ C36 $0.56213(13)$ $0.51417(13)$ $0.28592(13)$ $0.0314(3)$ H36B 0.5455 0.5847 0.2580 $0.038*$ C41 $0.5704(12)$ $0.14707(12)$ $0.45254(12)$ $0.0260(3)$ C42 $0.60720(13)$ $0.19029(12)$ $0.58292(12)$ $0.0251(3)$ H42 0.5743 0.2571 0.6242 $0.308*$ C41 0.5998 $0.3144(13)$ $0.59588(13)$ $0.0273(3)$ H44 0.7991 -0.0018 0.6448 $0.333*$ </td <td>H26A</td> <td>-0.0063</td> <td>0.2902</td> <td>0.3798</td> <td>0.035*</td>	H26A	-0.0063	0.2902	0.3798	0.035*
N31 $0.43308 (10)$ $0.39959 (10)$ $0.20951 (9)$ $0.0199 (2)$ H31 $0.4499 (14)$ $0.3329 (15)$ $0.2365 (14)$ 0.024^* C32 $0.39085 (13)$ $0.33636 (15)$ $0.06744 (12)$ $0.0297 (3)$ H32A 0.3700 0.4022 0.0337 0.368^* H32B 0.3070 0.2594 0.0189 0.036^* C33 $0.50410 (14)$ $0.28851 (17)$ $0.04548 (13)$ $0.0387 (3)$ H33A 0.4756 0.2497 -0.0487 0.046^* C34 $0.63655 (15)$ $0.40357 (17)$ $0.12266 (15)$ $0.0400 (3)$ H34A 0.7101 0.3692 0.1114 0.048^* H34B 0.6241 0.4705 0.0893 0.048^* C35 $0.67691 (14)$ $0.46939 (15)$ $0.26640 (14)$ $0.0349 (3)$ H35B 0.7594 0.5478 0.3149 0.042^* C36 $0.56213 (13)$ $0.51417 (13)$ $0.28592 (13)$ $0.0314 (3)$ H36A 0.5894 0.5532 0.3798 0.038^* C41 $0.57048 (12)$ $0.14707 (12)$ $0.45254 (12)$ $0.0226 (2)$ C42 $0.60720 (13)$ $0.19029 (12)$ $0.58292 (12)$ $0.0251 (3)$ H42 0.5743 0.2571 0.6242 0.030^* C43 $0.69222 (13)$ $0.13517 (12)$ $0.65226 (12)$ $0.0260 (3)$ C44 $0.73907 (13)$ $0.03474 (13)$ $0.5958 (13)$ $0.0273 (3)$ H44 0.7981 -0.0018 0.6448 0.033^* <	H26B	-0.0982	0.3556	0.2967	0.035*
H31 $0.4499 (14)$ $0.3329 (15)$ $0.2365 (14)$ 0.024^* C32 $0.39085 (13)$ $0.33636 (15)$ $0.06744 (12)$ $0.0297 (3)$ H32A 0.3700 0.4022 0.0337 0.036^* C33 $0.50410 (14)$ $0.28851 (17)$ $0.04548 (13)$ $0.0387 (3)$ H33A 0.4756 0.2497 -0.0487 0.046^* C34 $0.63655 (15)$ 0.2174 0.0728 0.046^* C34 $0.63655 (15)$ $0.40357 (17)$ $0.12266 (15)$ $0.0400 (3)$ H34A 0.7101 0.3692 0.1114 0.048^* H34B 0.6241 0.4705 0.0893 0.048^* C35 $0.67691 (14)$ $0.46939 (15)$ $0.26640 (14)$ $0.0349 (3)$ H35B 0.7594 0.5478 0.3149 0.042^* C36 $0.56213 (13)$ $0.5417 (13)$ $0.28592 (13)$ $0.0314 (3)$ H36B 0.5455 0.5847 0.2580 0.038^* C41 $0.57048 (12)$ $0.14707 (12)$ $0.45254 (12)$ $0.0251 (3)$ C42 $0.60720 (13)$ $0.19029 (12)$ $0.55226 (12)$ $0.0251 (3)$ C44 $0.73907 (13)$ $0.03474 (13)$ $0.59588 (13)$ $0.0273 (3)$ H44 0.7981 -0.0018 0.6448 0.033^* C45 $0.69577 (13)$ $-0.0098 (12)$ $0.3145 (12)$ $0.0213 (2)$ H46 0.5889 0.0134 $0.37987 (13)$ $0.0298 (3)$ C41 0.7391 $-0.0018 (12)$ $0.37987 (13)$ $0.0298 (3)$ </td <td>N31</td> <td>0.43308 (10)</td> <td>0.39959 (10)</td> <td>0.20951 (9)</td> <td>0.0199 (2)</td>	N31	0.43308 (10)	0.39959 (10)	0.20951 (9)	0.0199 (2)
C32 $0.39085(13)$ $0.33636(15)$ $0.06744(12)$ $0.0297(3)$ H32A 0.3700 0.4022 0.0337 $0.036*$ H32B 0.3070 0.2594 0.0189 $0.036*$ C33 $0.50410(14)$ $0.28851(17)$ $0.0487(13)$ $0.0387(3)$ H33A 0.4756 0.2497 -0.0487 $0.046*$ H33B 0.5196 0.2174 0.0728 $0.040(3)$ H34A 0.7101 0.3692 0.1114 $0.048*$ H34B 0.6241 0.4705 0.0893 $0.048*$ C35 $0.67691(14)$ $0.46939(15)$ $0.26640(14)$ $0.0349(3)$ H35A 0.6995 0.4051 0.3019 $0.042*$ C36 $0.56213(13)$ $0.51417(13)$ $0.28592(13)$ $0.038*$ C36 $0.56213(13)$ $0.51417(13)$ $0.28592(13)$ $0.038*$ H36B 0.5455 0.5847 0.2580 $0.038*$ C41 $0.73907(13)$ $0.14707(12)$ $0.45254(12)$ $0.0226(2)$ C42 $0.60720(13)$ $0.19029(12)$ $0.58292(12)$ $0.0221(3)$ H42 0.5743 0.2571 0.6242 $0.030*$ C43 $0.69222(13)$ $0.13517(12)$ $0.65226(12)$ $0.0226(3)$ C44 $0.73907(13)$ $0.03474(13)$ $0.5958(13)$ $0.0273(3)$ H44 0.7981 -0.0018 0.6448 $0.033*$ C45 $0.69577(13)$ $-0.0098(12)$ $0.46483(12)$ $0.0226(3)$ C46 $0.61418(12)$ $0.04496(12)$ $0.39155($	H31	0.4499 (14)	0.3329 (15)	0.2365 (14)	0.024*
H32A 0.3700 0.4022 0.0337 0.036^* H32B 0.3070 0.2594 0.0189 0.036^* C33 0.50410 (14) 0.28851 (17) 0.04548 (13) 0.0387 (3)H33A 0.4756 0.2497 -0.0487 0.046^* C34 0.63655 (15) 0.2174 0.0728 0.046^* C34 0.63655 (15) 0.40357 (17) 0.12266 (15) 0.0400 (3)H34A 0.7101 0.3692 0.1114 0.048^* H34B 0.6241 0.4705 0.0893 0.044^* C35 0.67691 (14) 0.46939 (15) 0.26640 (14) 0.0349 (3)H35A 0.6995 0.4051 0.3019 0.042^* C36 0.56213 (13) 0.51417 (13) 0.28592 (13) 0.0314 (3)H36A 0.5894 0.5532 0.3798 0.038^* C41 0.57048 (12) 0.14707 (12) 0.45254 (12) 0.0226 (2)C42 0.60720 (13) 0.19029 (12) 0.58292 (12) 0.02251 (3)H42 0.5743 0.2571 0.65422 0.030^* C43 0.69222 (13) 0.13517 (12) 0.65226 (12) 0.0260 (3)C44 0.7991 -0.0018 0.6448 0.033^* C45 0.69577 (13) -0.0084 (12) 0.39155 (12) 0.0221 (2)C46 0.61418 (12) 0.04496 (12) 0.39187 (13) 0.0298 (3)C46 0.61418 (12) 0.04496 (12) 0.39165 (13) 0.0726 (3)C4	C32	0.39085 (13)	0.33636 (15)	0.06744 (12)	0.0297 (3)
H32B 0.3070 0.2594 0.0189 0.036^* C33 $0.50410 (14)$ $0.28851 (17)$ $0.04548 (13)$ $0.0387 (3)$ H33A 0.4756 0.2497 -0.0487 0.046^* H33B 0.5196 0.2174 0.0728 0.046^* C34 $0.63655 (15)$ $0.40357 (17)$ $0.12266 (15)$ $0.0400 (3)$ H34A 0.7101 0.3692 0.1114 0.048^* H34B 0.6241 0.4705 0.0893 0.048^* C35 $0.67691 (14)$ $0.46939 (15)$ $0.26640 (14)$ $0.0349 (3)$ H35A 0.6995 0.4051 0.3019 0.042^* H35B 0.7594 0.5478 0.3149 0.038^* C36 $0.56213 (13)$ $0.51417 (13)$ $0.28592 (13)$ $0.0314 (3)$ H36B 0.5455 0.5847 0.2580 0.038^* C41 $0.57048 (12)$ $0.14707 (12)$ $0.45254 (12)$ $0.0251 (3)$ H42 0.5743 0.2571 0.6242 0.030^* C43 $0.69222 (13)$ $0.13517 (12)$ $0.65226 (12)$ $0.0260 (3)$ C44 $0.73907 (13)$ $0.03474 (13)$ $0.59588 (13)$ $0.0273 (3)$ H44 0.7981 -0.0018 0.6448 0.033^* C45 $0.69577 (13)$ $-0.00984 (12)$ $0.39155 (12)$ $0.0218 (2)$ C46 $0.61418 (12)$ $0.04496 (12)$ $0.3916 (13)$ $0.028^* (14)$ C411 $0.48386 (11)$ $0.20351 (11)$ $0.27857 (10)$ $0.0394 (3)$ C45 <td>H32A</td> <td>0.3700</td> <td>0.4022</td> <td>0.0337</td> <td>0.036*</td>	H32A	0.3700	0.4022	0.0337	0.036*
C33 $0.50410(14)$ $0.28851(17)$ $0.04548(13)$ $0.0387(3)$ H33A 0.4756 0.2497 -0.0487 0.046^* H33B 0.5196 0.2174 0.0728 $0.040(3)$ C34 $0.63655(15)$ $0.40357(17)$ $0.12266(15)$ $0.0400(3)$ H34A 0.7101 0.3692 0.1114 0.048^* C35 $0.67691(14)$ 0.4705 0.0893 0.044^* C35 $0.67691(14)$ $0.46939(15)$ $0.26640(14)$ $0.0349(3)$ H35A 0.6995 0.4051 0.3019 0.042^* C36 $0.56213(13)$ $0.51417(13)$ $0.28592(13)$ $0.0314(3)$ H36A 0.5894 0.5532 0.3798 0.038^* C41 $0.57048(12)$ $0.14707(12)$ $0.45254(12)$ $0.0226(2)$ C42 $0.60720(13)$ $0.19029(12)$ $0.58292(12)$ $0.0251(3)$ H42 0.5743 0.2571 0.6242 0.030^* C43 $0.69222(13)$ $0.13517(12)$ $0.65226(12)$ $0.0206(3)$ C44 $0.73907(13)$ $0.03474(13)$ $0.59588(13)$ $0.0273(3)$ H44 0.7981 -0.0018 0.6448 0.033^* C45 $0.69577(13)$ $-0.00984(12)$ $0.39155(12)$ $0.028(3)$ C411 $0.48388(14)$ $0.21494(13)$ $0.37987(13)$ $0.0298(3)$ C44 $0.73907(13)$ $0.02763(14)$ $0.42999(11)$ $0.0571(4)$ H46 0.5889 0.0134 0.3200 0.028^* C411 $0.48388(14)$ </td <td>H32B</td> <td>0.3070</td> <td>0.2594</td> <td>0.0189</td> <td>0.036*</td>	H32B	0.3070	0.2594	0.0189	0.036*
H33A 0.4756 0.2497 -0.0487 0.046^* H33B 0.5196 0.2174 0.0728 0.046^* C34 $0.63655(15)$ $0.40357(17)$ $0.12266(15)$ $0.0400(3)$ H34A 0.7101 0.3692 0.1114 0.048^* H34B 0.6241 0.4705 0.0893 0.048^* C35 $0.67691(14)$ $0.46939(15)$ $0.26640(14)$ $0.0349(3)$ H35A 0.6995 0.4051 0.3019 0.042^* C36 $0.56213(13)$ $0.51417(13)$ $0.28592(13)$ $0.0314(3)$ H36A 0.5894 0.5532 0.3798 0.038^* C41 $0.57048(12)$ $0.14707(12)$ $0.45254(12)$ $0.0226(2)$ C42 $0.60720(13)$ $0.19029(12)$ $0.58292(12)$ $0.0226(3)$ C43 $0.69222(13)$ $0.13517(12)$ $0.65226(12)$ $0.0260(3)$ C44 $0.73907(13)$ $0.03474(13)$ $0.59588(13)$ $0.0273(3)$ H44 0.7981 -0.0018 0.6448 0.033^* C45 $0.69577(13)$ $-0.00984(12)$ $0.39155(12)$ $0.0228(3)$ C411 $0.48388(14)$ $0.2351(11)$ $0.37987(13)$ $0.0298(3)$ C44 $0.73907(13)$ $0.03474(13)$ $0.37987(13)$ $0.0298(3)$ C46 $0.61418(12)$ $0.04496(12)$ $0.39155(12)$ $0.0231(2)$ H46 0.5889 0.0134 0.3020 $0.028*$ C411 $0.48388(14)$ $0.27683(14)$ $0.42999(11)$ $0.0571(4)$ N43 0.7	C33	0.50410 (14)	0.28851 (17)	0.04548 (13)	0.0387 (3)
H33B 0.5196 0.2174 0.0728 0.046^* C34 $0.63655(15)$ $0.40357(17)$ $0.12266(15)$ $0.0400(3)$ H34A 0.7101 0.3692 0.1114 0.048^* H34B 0.6241 0.4705 0.0893 0.048^* C35 $0.67691(14)$ $0.46939(15)$ $0.26640(14)$ $0.0349(3)$ H35A 0.6995 0.4051 0.3019 0.042^* C36 $0.56213(13)$ $0.51417(13)$ $0.28592(13)$ $0.0314(3)$ H36A 0.5894 0.5532 0.3798 0.038^* H36B 0.5455 0.5847 0.2580 0.038^* C41 $0.57048(12)$ $0.14707(12)$ $0.45254(12)$ $0.0226(2)$ C42 $0.60720(13)$ $0.13517(12)$ $0.65226(12)$ $0.0260(3)$ C43 $0.6922(13)$ $0.13517(12)$ $0.65226(12)$ $0.0260(3)$ C44 $0.73907(13)$ $0.03474(13)$ $0.59588(13)$ $0.0273(3)$ H44 0.7981 -0.0018 0.6448 0.033^* C45 $0.69577(13)$ $-0.00984(12)$ $0.3915(12)$ $0.0246(3)$ C46 $0.61418(12)$ 0.0134 0.3020 0.028^* C411 $0.48388(14)$ $0.27683(14)$ $0.42999(11)$ $0.0571(4)$ H46 0.5889 0.0134 0.3020 0.028^* C411 $0.48388(14)$ $0.27683(14)$ $0.42999(11)$ $0.0571(4)$ H46 0.5889 0.0134 0.3020 0.028^* C411 $0.48388(14)$ $0.27683(14$	H33A	0.4756	0.2497	-0.0487	0.046*
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	H33B	0.5196	0.2174	0.0728	0.046*
H34A0.71010.36920.11140.048*H34B0.62410.47050.08930.048*C350.67691 (14)0.46939 (15)0.26640 (14)0.0349 (3)H35A0.69950.40510.30190.042*H35B0.75940.54780.31490.042*C360.56213 (13)0.51417 (13)0.28592 (13)0.0314 (3)H36A0.58940.55320.37980.038*H36B0.54550.58470.25800.038*C410.57048 (12)0.14707 (12)0.45254 (12)0.0236 (2)C420.60720 (13)0.19029 (12)0.58292 (12)0.0251 (3)H420.57430.25710.62420.030*C430.69222 (13)0.13517 (12)0.65226 (12)0.0260 (3)C440.73907 (13)0.03474 (13)0.59588 (13)0.0273 (3)H440.7981-0.00180.64480.033*C450.69577 (13)-0.00984 (12)0.3155 (12)0.0231 (2)H460.58890.01340.30200.028*C4110.48388 (14)0.21494 (13)0.37987 (13)0.0298 (3)O4110.48388 (14)0.27080 (13)0.739787 (10)0.0394 (3)O4120.42093 (13)0.27683 (14)0.42999 (11)0.0571 (4)N430.73412 (14)0.1813 (13)0.7916 (12)0.0387 (3)O4310.68879 (14)0.27080 (13)0.83989 (11)0.0555 (3)O4320.81408 (17)0.13945 (15) <td< td=""><td>C34</td><td>0.63655 (15)</td><td>0.40357 (17)</td><td>0.12266 (15)</td><td>0.0400 (3)</td></td<>	C34	0.63655 (15)	0.40357 (17)	0.12266 (15)	0.0400 (3)
H34B 0.6241 0.4705 0.0893 $0.048*$ C35 $0.67691 (14)$ $0.46939 (15)$ $0.26640 (14)$ $0.0349 (3)$ H35A 0.6995 0.4051 0.3019 $0.042*$ C36 $0.56213 (13)$ $0.51417 (13)$ $0.28592 (13)$ $0.0314 (3)$ H36A 0.5894 0.5532 0.3798 $0.038*$ H36B 0.5455 0.5847 0.2580 $0.038*$ C41 $0.57048 (12)$ $0.14707 (12)$ $0.45254 (12)$ $0.0236 (2)$ C42 $0.60720 (13)$ $0.19029 (12)$ $0.58292 (12)$ $0.0236 (2)$ C43 $0.69222 (13)$ $0.13517 (12)$ $0.65226 (12)$ $0.0260 (3)$ C44 $0.73907 (13)$ $0.03474 (13)$ $0.59588 (13)$ $0.0273 (3)$ H44 0.7981 -0.0018 0.6448 $0.033*$ C45 $0.69577 (13)$ $-0.00984 (12)$ $0.39155 (12)$ $0.0246 (3)$ C46 $0.61418 (12)$ 0.0134 0.3020 $0.028*$ C411 $0.48388 (14)$ $0.21494 (13)$ $0.37987 (13)$ $0.0298 (3)$ O411 $0.48388 (14)$ $0.21494 (13)$ $0.37987 (13)$ $0.0298 (3)$ O411 $0.48388 (14)$ $0.27683 (14)$ $0.42999 (11)$ $0.0571 (4)$ N43 $0.73412 (14)$ $0.18513 (13)$ $0.7916 (12)$ $0.0387 (3)$ O432 $0.81408 (17)$ $0.13945 (15)$ $0.85243 (12)$ $0.0690 (4)$ N45 $0.73858 (13)$ $-0.12129 (12)$ $0.40094 (12)$ $0.0341 (3)$ O451 $0.83761 (16)$	H34A	0.7101	0.3692	0.1114	0.048*
C35 $0.67691 (14)$ $0.46939 (15)$ $0.26640 (14)$ $0.0349 (3)$ H35A 0.6995 0.4051 0.3019 $0.042*$ H35B 0.7594 0.5478 0.3149 $0.042*$ C36 $0.56213 (13)$ $0.51417 (13)$ $0.28592 (13)$ $0.0314 (3)$ H36A 0.5894 0.5532 0.3798 $0.038*$ C41 $0.57048 (12)$ $0.14707 (12)$ $0.45254 (12)$ $0.0236 (2)$ C42 $0.60720 (13)$ $0.19029 (12)$ $0.58292 (12)$ $0.0251 (3)$ H42 0.5743 0.2571 0.6242 $0.030*$ C43 $0.69222 (13)$ $0.13517 (12)$ $0.65226 (12)$ $0.0260 (3)$ C44 $0.73907 (13)$ $0.03474 (13)$ $0.59588 (13)$ $0.0273 (3)$ H44 0.7981 -0.0018 0.6448 $0.033*$ C45 $0.69577 (13)$ $-0.00984 (12)$ $0.39155 (12)$ $0.0226 (3)$ C46 $0.61418 (12)$ $0.04496 (12)$ $0.39155 (12)$ $0.0228 (3)$ C411 $0.48388 (14)$ $0.21494 (13)$ $0.37987 (13)$ $0.0298 (3)$ O411 $0.48388 (14)$ $0.21649 (13)$ $0.7987 (13)$ $0.0298 (3)$ O411 $0.48586 (11)$ $0.27683 (14)$ $0.42999 (11)$ $0.0571 (4)$ N43 $0.73412 (14)$ $0.18513 (13)$ $0.79160 (12)$ $0.0387 (3)$ O431 $0.6879 (14)$ $0.27080 (13)$ $0.83989 (11)$ $0.0555 (3)$ O432 $0.81408 (17)$ $0.13945 (15)$ $0.82243 (12)$ $0.0690 (4)$ N45 $0.73858 ($	H34B	0.6241	0.4705	0.0893	0.048*
H35A 0.6995 0.4051 0.3019 $0.042*$ H35B 0.7594 0.5478 0.3149 $0.042*$ C36 $0.56213 (13)$ $0.51417 (13)$ $0.28592 (13)$ $0.0314 (3)$ H36A 0.5894 0.5532 0.3798 $0.038*$ H36B 0.5455 0.5847 0.2580 $0.038*$ C41 $0.57048 (12)$ $0.14707 (12)$ $0.45254 (12)$ $0.0236 (2)$ C42 $0.60720 (13)$ $0.19029 (12)$ $0.58292 (12)$ $0.0251 (3)$ H42 0.5743 0.2571 0.6242 $0.030*$ C43 $0.69222 (13)$ $0.13517 (12)$ $0.65226 (12)$ $0.0260 (3)$ C44 $0.73907 (13)$ $0.03474 (13)$ $0.59588 (13)$ $0.0273 (3)$ H44 0.7981 -0.0018 0.6448 $0.033*$ C45 $0.69577 (13)$ $-0.00984 (12)$ $0.39155 (12)$ $0.0226 (3)$ C46 $0.61418 (12)$ $0.04496 (12)$ $0.39155 (12)$ $0.028*$ C411 $0.48388 (14)$ $0.21494 (13)$ $0.37987 (13)$ $0.0298 (3)$ O411 $0.48586 (11)$ $0.20351 (11)$ $0.27857 (10)$ $0.0394 (3)$ O412 $0.42093 (13)$ $0.27683 (14)$ $0.42999 (11)$ $0.0571 (4)$ N43 $0.73412 (14)$ $0.18513 (13)$ $0.79160 (12)$ $0.0387 (3)$ O431 $0.68879 (14)$ $0.27080 (13)$ $0.83989 (11)$ $0.0555 (3)$ O432 $0.81408 (17)$ $0.13945 (15)$ $0.85243 (12)$ $0.0690 (4)$ N45 $0.73858 (13)$ $-0.12129 $	C35	0.67691 (14)	0.46939 (15)	0.26640 (14)	0.0349 (3)
H35B0.75940.54780.31490.042*C360.56213 (13)0.51417 (13)0.28592 (13)0.0314 (3)H36A0.58940.55320.37980.038*H36B0.54550.58470.25800.038*C410.57048 (12)0.14707 (12)0.45254 (12)0.0236 (2)C420.60720 (13)0.19029 (12)0.58292 (12)0.0251 (3)H420.57430.25710.62420.030*C430.69222 (13)0.13517 (12)0.65226 (12)0.0260 (3)C440.73907 (13)0.03474 (13)0.59588 (13)0.0273 (3)H440.7981-0.00180.64480.033*C450.69577 (13)-0.00984 (12)0.46483 (12)0.0246 (3)C460.61418 (12)0.04496 (12)0.39155 (12)0.0231 (2)H460.58890.01340.30200.028*C4110.48388 (14)0.21494 (13)0.37987 (13)0.0298 (3)O4110.48586 (11)0.20351 (11)0.27857 (10)0.0394 (3)O4120.42093 (13)0.27683 (14)0.42999 (11)0.0571 (4)N430.73412 (14)0.18513 (13)0.79160 (12)0.0387 (3)O4310.68879 (14)0.27080 (13)0.83989 (11)0.0555 (3)O4320.81408 (17)0.13945 (15)0.85243 (12)0.0690 (4)N450.73858 (13)-0.12129 (12)0.40094 (12)0.0341 (3)O4510.83761 (16)-0.14320 (16)0.46933 (13)0.0756 (5) <td>H35A</td> <td>0.6995</td> <td>0.4051</td> <td>0.3019</td> <td>0.042*</td>	H35A	0.6995	0.4051	0.3019	0.042*
C36 $0.56213(13)$ $0.51417(13)$ $0.28592(13)$ $0.0314(3)$ H36A 0.5894 0.5532 0.3798 $0.038*$ H36B 0.5455 0.5847 0.2580 $0.038*$ C41 $0.57048(12)$ $0.14707(12)$ $0.45254(12)$ $0.0236(2)$ C42 $0.60720(13)$ $0.19029(12)$ $0.58292(12)$ $0.0251(3)$ H42 0.5743 0.2571 0.6242 $0.030*$ C43 $0.69222(13)$ $0.13517(12)$ $0.65226(12)$ $0.0260(3)$ C44 $0.73907(13)$ $0.03474(13)$ $0.59588(13)$ $0.0273(3)$ H44 0.7981 -0.0018 0.6448 $0.033*$ C45 $0.69577(13)$ $-0.00984(12)$ $0.39155(12)$ $0.0231(2)$ H46 0.5889 0.0134 0.3020 $0.028*$ C411 $0.48388(14)$ $0.21494(13)$ $0.37987(13)$ $0.0298(3)$ O411 $0.48586(11)$ $0.20351(11)$ $0.27857(10)$ $0.0394(3)$ O412 $0.42093(13)$ $0.27683(14)$ $0.42999(11)$ $0.0571(4)$ N43 $0.73412(14)$ $0.18513(13)$ $0.79160(12)$ $0.0387(3)$ O431 $0.68879(14)$ $0.27080(13)$ $0.83989(11)$ $0.0555(3)$ O432 $0.81408(17)$ $0.13945(15)$ $0.82243(12)$ $0.0690(4)$ N45 $0.73858(13)$ $-0.12129(12)$ $0.40094(12)$ $0.0341(3)$ O451 $0.83761(16)$ $-0.14320(16)$ $0.46933(13)$ $0.0756(5)$ O452 $0.67240(12)$ $-0.18761(10)$ $0.28288(10)$ <td>H35B</td> <td>0.7594</td> <td>0.5478</td> <td>0.3149</td> <td>0.042*</td>	H35B	0.7594	0.5478	0.3149	0.042*
H36A 0.5894 0.5532 0.3798 0.038^* H36B 0.5455 0.5847 0.2580 0.038^* C41 0.57048 (12) 0.14707 (12) 0.45254 (12) 0.0236 (2)C42 0.60720 (13) 0.19029 (12) 0.58292 (12) 0.0251 (3)H42 0.5743 0.2571 0.6242 0.030^* C43 0.69222 (13) 0.13517 (12) 0.65226 (12) 0.0260 (3)C44 0.73907 (13) 0.03474 (13) 0.59588 (13) 0.0273 (3)H44 0.7981 -0.0018 0.6448 0.033^* C45 0.69577 (13) -0.00984 (12) 0.39155 (12) 0.0246 (3)C46 0.61418 (12) 0.04496 (12) 0.39155 (12) 0.0231 (2)H46 0.5889 0.0134 0.3020 0.028^* C411 0.48388 (14) 0.21494 (13) 0.37987 (13) 0.0298 (3)O411 0.48586 (11) 0.20351 (11) 0.27857 (10) 0.0394 (3)O412 0.42093 (13) 0.27683 (14) 0.422999 (11) 0.0571 (4)N43 0.73412 (14) 0.18513 (13) 0.79160 (12) 0.0387 (3)O431 0.68879 (14) 0.27080 (13) 0.83989 (11) 0.0555 (3)O432 0.81408 (17) 0.13945 (15) 0.85243 (12) 0.0690 (4)N45 0.73858 (13) -0.12129 (12) 0.40094 (12) 0.0341 (3)O451 0.83761 (16) -0.14320 (16) 0.46933 (13) 0.0756 (5)O452 <td< td=""><td>C36</td><td>0.56213 (13)</td><td>0.51417 (13)</td><td>0.28592 (13)</td><td>0.0314 (3)</td></td<>	C36	0.56213 (13)	0.51417 (13)	0.28592 (13)	0.0314 (3)
H36B 0.5455 0.5847 0.2580 $0.038*$ C41 $0.57048 (12)$ $0.14707 (12)$ $0.45254 (12)$ $0.0236 (2)$ C42 $0.60720 (13)$ $0.19029 (12)$ $0.58292 (12)$ $0.0251 (3)$ H42 0.5743 0.2571 0.6242 $0.030*$ C43 $0.69222 (13)$ $0.13517 (12)$ $0.65226 (12)$ $0.0260 (3)$ C44 $0.73907 (13)$ $0.03474 (13)$ $0.59588 (13)$ $0.0273 (3)$ H44 0.7981 -0.0018 0.6448 $0.033*$ C45 $0.69577 (13)$ $-0.00984 (12)$ $0.46483 (12)$ $0.0246 (3)$ C46 $0.61418 (12)$ $0.04496 (12)$ $0.39155 (12)$ $0.0231 (2)$ H46 0.5889 0.0134 0.3020 $0.028*$ C411 $0.48388 (14)$ $0.21494 (13)$ $0.37987 (13)$ $0.0298 (3)$ O411 $0.48586 (11)$ $0.20351 (11)$ $0.27857 (10)$ $0.0394 (3)$ O412 $0.42093 (13)$ $0.27683 (14)$ $0.42999 (11)$ $0.0571 (4)$ N43 $0.73412 (14)$ $0.18513 (13)$ $0.79160 (12)$ $0.0387 (3)$ O431 $0.68879 (14)$ $0.27080 (13)$ $0.83989 (11)$ $0.0555 (3)$ O432 $0.81408 (17)$ $0.13945 (15)$ $0.85243 (12)$ $0.0690 (4)$ N45 $0.73858 (13)$ $-0.12129 (12)$ $0.40094 (12)$ $0.0341 (3)$ O451 $0.83761 (16)$ $-0.14320 (16)$ $0.42933 (13)$ $0.0756 (5)$ O452 $0.67240 (12)$ $-0.18761 (10)$ $0.28288 (10)$ $0.0433 (3)$ <td>H36A</td> <td>0.5894</td> <td>0.5532</td> <td>0.3798</td> <td>0.038*</td>	H36A	0.5894	0.5532	0.3798	0.038*
C41 $0.57048(12)$ $0.14707(12)$ $0.45254(12)$ $0.0236(2)$ C42 $0.60720(13)$ $0.19029(12)$ $0.58292(12)$ $0.0251(3)$ H42 0.5743 0.2571 0.6242 0.030^* C43 $0.69222(13)$ $0.13517(12)$ $0.65226(12)$ $0.0260(3)$ C44 $0.73907(13)$ $0.03474(13)$ $0.59588(13)$ $0.0273(3)$ H44 0.7981 -0.0018 0.6448 0.033^* C45 $0.69577(13)$ $-0.00984(12)$ $0.46483(12)$ $0.0246(3)$ C46 $0.61418(12)$ $0.04496(12)$ $0.39155(12)$ $0.0231(2)$ H46 0.5889 0.0134 0.3020 0.028^* C411 $0.48388(14)$ $0.21494(13)$ $0.37987(13)$ $0.0298(3)$ O412 $0.42093(13)$ $0.27683(14)$ $0.42999(11)$ $0.0571(4)$ N43 $0.73412(14)$ $0.18513(13)$ $0.79160(12)$ $0.0387(3)$ O431 $0.68879(14)$ $0.27080(13)$ $0.83989(11)$ $0.0555(3)$ O432 $0.81408(17)$ $0.13945(15)$ $0.85243(12)$ $0.0690(4)$ N45 $0.73858(13)$ $-0.12129(12)$ $0.40094(12)$ $0.0341(3)$ O451 $0.83761(16)$ $-0.18761(10)$ $0.28288(10)$ $0.0433(3)$	H36B	0.5455	0.5847	0.2580	0.038*
C42 $0.60720 (13)$ $0.19029 (12)$ $0.58292 (12)$ $0.0251 (3)$ H42 0.5743 0.2571 0.6242 0.030^* C43 $0.69222 (13)$ $0.13517 (12)$ $0.65226 (12)$ $0.0260 (3)$ C44 $0.73907 (13)$ $0.03474 (13)$ $0.59588 (13)$ $0.0273 (3)$ H44 0.7981 -0.0018 0.6448 0.033^* C45 $0.69577 (13)$ $-0.00984 (12)$ $0.46483 (12)$ $0.0246 (3)$ C46 $0.61418 (12)$ $0.04496 (12)$ $0.39155 (12)$ $0.0231 (2)$ H46 0.5889 0.0134 0.3020 $0.028*$ C411 $0.48388 (14)$ $0.21494 (13)$ $0.37987 (13)$ $0.0298 (3)$ O411 $0.48586 (11)$ $0.27683 (14)$ $0.42999 (11)$ $0.0571 (4)$ N43 $0.73412 (14)$ $0.18513 (13)$ $0.79160 (12)$ $0.0387 (3)$ O431 $0.68879 (14)$ $0.27080 (13)$ $0.83989 (11)$ $0.0555 (3)$ O432 $0.81408 (17)$ $0.13945 (15)$ $0.85243 (12)$ $0.0690 (4)$ N45 $0.73858 (13)$ $-0.12129 (12)$ $0.40094 (12)$ $0.0341 (3)$ O451 $0.83761 (16)$ $-0.14320 (16)$ $0.46933 (13)$ $0.0756 (5)$ O452 $0.67240 (12)$ $-0.18761 (10)$ $0.28288 (10)$ $0.0433 (3)$	C41	0.57048 (12)	0.14707 (12)	0.45254 (12)	0.0236 (2)
H42 0.5743 0.2571 0.6242 0.030^* C43 $0.69222 (13)$ $0.13517 (12)$ $0.65226 (12)$ $0.0260 (3)$ C44 $0.73907 (13)$ $0.03474 (13)$ $0.59588 (13)$ $0.0273 (3)$ H44 0.7981 -0.0018 0.6448 0.033^* C45 $0.69577 (13)$ $-0.00984 (12)$ $0.46483 (12)$ $0.0246 (3)$ C46 $0.61418 (12)$ $0.04496 (12)$ $0.39155 (12)$ $0.0231 (2)$ H46 0.5889 0.0134 0.3020 0.028^* C411 $0.48388 (14)$ $0.21494 (13)$ $0.37987 (13)$ $0.0298 (3)$ O411 $0.48586 (11)$ $0.20351 (11)$ $0.27857 (10)$ $0.0394 (3)$ O412 $0.42093 (13)$ $0.27683 (14)$ $0.42999 (11)$ $0.0571 (4)$ N43 $0.73412 (14)$ $0.18513 (13)$ $0.79160 (12)$ $0.0387 (3)$ O431 $0.68879 (14)$ $0.27080 (13)$ $0.83989 (11)$ $0.0555 (3)$ O432 $0.81408 (17)$ $0.13945 (15)$ $0.85243 (12)$ $0.0690 (4)$ N45 $0.73858 (13)$ $-0.12129 (12)$ $0.40094 (12)$ $0.0341 (3)$ O451 $0.83761 (16)$ $-0.14320 (16)$ $0.46933 (13)$ $0.0756 (5)$ O452 $0.67240 (12)$ $-0.18761 (10)$ $0.28288 (10)$ $0.0433 (3)$	C42	0.60720 (13)	0.19029 (12)	0.58292 (12)	0.0251 (3)
C43 $0.69222 (13)$ $0.13517 (12)$ $0.65226 (12)$ $0.0260 (3)$ C44 $0.73907 (13)$ $0.03474 (13)$ $0.59588 (13)$ $0.0273 (3)$ H44 0.7981 -0.0018 0.6448 0.033^* C45 $0.69577 (13)$ $-0.00984 (12)$ $0.46483 (12)$ $0.0246 (3)$ C46 $0.61418 (12)$ $0.04496 (12)$ $0.39155 (12)$ $0.0231 (2)$ H46 0.5889 0.0134 0.3020 0.028^* C411 $0.48388 (14)$ $0.21494 (13)$ $0.37987 (13)$ $0.0298 (3)$ O411 $0.48586 (11)$ $0.20351 (11)$ $0.27857 (10)$ $0.0394 (3)$ O412 $0.42093 (13)$ $0.27683 (14)$ $0.42999 (11)$ $0.0571 (4)$ N43 $0.73412 (14)$ $0.18513 (13)$ $0.79160 (12)$ $0.0387 (3)$ O431 $0.68879 (14)$ $0.27080 (13)$ $0.83989 (11)$ $0.0555 (3)$ O432 $0.81408 (17)$ $0.13945 (15)$ $0.85243 (12)$ $0.0690 (4)$ N45 $0.73858 (13)$ $-0.12129 (12)$ $0.40094 (12)$ $0.0341 (3)$ O451 $0.83761 (16)$ $-0.18761 (10)$ $0.28288 (10)$ $0.0433 (3)$	H42	0.5743	0.2571	0.6242	0.030*
C44 $0.73907(13)$ $0.03474(13)$ $0.59588(13)$ $0.0273(3)$ H44 0.7981 -0.0018 0.6448 0.033^* C45 $0.69577(13)$ $-0.00984(12)$ $0.46483(12)$ $0.0246(3)$ C46 $0.61418(12)$ $0.04496(12)$ $0.39155(12)$ $0.0231(2)$ H46 0.5889 0.0134 0.3020 0.028^* C411 $0.48388(14)$ $0.21494(13)$ $0.37987(13)$ $0.0298(3)$ O411 $0.48586(11)$ $0.20351(11)$ $0.27857(10)$ $0.0394(3)$ O412 $0.42093(13)$ $0.27683(14)$ $0.42999(11)$ $0.0571(4)$ N43 $0.73412(14)$ $0.18513(13)$ $0.79160(12)$ $0.0387(3)$ O431 $0.68879(14)$ $0.27080(13)$ $0.83989(11)$ $0.0555(3)$ O432 $0.81408(17)$ $0.13945(15)$ $0.85243(12)$ $0.0690(4)$ N45 $0.73858(13)$ $-0.12129(12)$ $0.40094(12)$ $0.0341(3)$ O451 $0.83761(16)$ $-0.18761(10)$ $0.28288(10)$ $0.0433(3)$	C43	0.69222 (13)	0.13517 (12)	0.65226 (12)	0.0260 (3)
H44 0.7981 -0.0018 0.6448 0.033^* C45 $0.69577 (13)$ $-0.00984 (12)$ $0.46483 (12)$ $0.0246 (3)$ C46 $0.61418 (12)$ $0.04496 (12)$ $0.39155 (12)$ $0.0231 (2)$ H46 0.5889 0.0134 0.3020 0.028^* C411 $0.48388 (14)$ $0.21494 (13)$ $0.37987 (13)$ $0.0298 (3)$ O411 $0.48586 (11)$ $0.20351 (11)$ $0.27857 (10)$ $0.0394 (3)$ O412 $0.42093 (13)$ $0.27683 (14)$ $0.42999 (11)$ $0.0571 (4)$ N43 $0.73412 (14)$ $0.18513 (13)$ $0.79160 (12)$ $0.0387 (3)$ O431 $0.68879 (14)$ $0.27080 (13)$ $0.83989 (11)$ $0.0555 (3)$ O432 $0.81408 (17)$ $0.13945 (15)$ $0.85243 (12)$ $0.0690 (4)$ N45 $0.73858 (13)$ $-0.12129 (12)$ $0.40094 (12)$ $0.0341 (3)$ O451 $0.83761 (16)$ $-0.14320 (16)$ $0.46933 (13)$ $0.0756 (5)$ O452 $0.67240 (12)$ $-0.18761 (10)$ $0.28288 (10)$ $0.0433 (3)$	C44	0.73907 (13)	0.03474 (13)	0.59588 (13)	0.0273 (3)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	H44	0.7981	-0.0018	0.6448	0.033*
C46 $0.61418(12)$ $0.04496(12)$ $0.39155(12)$ $0.0231(2)$ H46 0.5889 0.0134 0.3020 $0.028*$ C411 $0.48388(14)$ $0.21494(13)$ $0.37987(13)$ $0.0298(3)$ O411 $0.48586(11)$ $0.20351(11)$ $0.27857(10)$ $0.0394(3)$ O412 $0.42093(13)$ $0.27683(14)$ $0.42999(11)$ $0.0571(4)$ N43 $0.73412(14)$ $0.18513(13)$ $0.79160(12)$ $0.0387(3)$ O431 $0.68879(14)$ $0.27080(13)$ $0.83989(11)$ $0.0555(3)$ O432 $0.81408(17)$ $0.13945(15)$ $0.85243(12)$ $0.0690(4)$ N45 $0.73858(13)$ $-0.12129(12)$ $0.40094(12)$ $0.0341(3)$ O451 $0.83761(16)$ $-0.14320(16)$ $0.46933(13)$ $0.0756(5)$ O452 $0.67240(12)$ $-0.18761(10)$ $0.28288(10)$ $0.0433(3)$	C45	0.69577 (13)	-0.00984 (12)	0.46483 (12)	0.0246 (3)
H46 0.5889 0.0134 0.3020 $0.028*$ C411 $0.48388 (14)$ $0.21494 (13)$ $0.37987 (13)$ $0.0298 (3)$ O411 $0.48586 (11)$ $0.20351 (11)$ $0.27857 (10)$ $0.0394 (3)$ O412 $0.42093 (13)$ $0.27683 (14)$ $0.42999 (11)$ $0.0571 (4)$ N43 $0.73412 (14)$ $0.18513 (13)$ $0.79160 (12)$ $0.0387 (3)$ O431 $0.68879 (14)$ $0.27080 (13)$ $0.83989 (11)$ $0.0555 (3)$ O432 $0.81408 (17)$ $0.13945 (15)$ $0.85243 (12)$ $0.0690 (4)$ N45 $0.73858 (13)$ $-0.12129 (12)$ $0.40094 (12)$ $0.0341 (3)$ O451 $0.83761 (16)$ $-0.18761 (10)$ $0.28288 (10)$ $0.0433 (3)$	C46	0.61418 (12)	0.04496 (12)	0.39155 (12)	0.0231 (2)
C411 $0.48388 (14)$ $0.21494 (13)$ $0.37987 (13)$ $0.0298 (3)$ O411 $0.48586 (11)$ $0.20351 (11)$ $0.27857 (10)$ $0.0394 (3)$ O412 $0.42093 (13)$ $0.27683 (14)$ $0.42999 (11)$ $0.0571 (4)$ N43 $0.73412 (14)$ $0.18513 (13)$ $0.79160 (12)$ $0.0387 (3)$ O431 $0.68879 (14)$ $0.27080 (13)$ $0.83989 (11)$ $0.0555 (3)$ O432 $0.81408 (17)$ $0.13945 (15)$ $0.85243 (12)$ $0.0690 (4)$ N45 $0.73858 (13)$ $-0.12129 (12)$ $0.40094 (12)$ $0.0341 (3)$ O451 $0.83761 (16)$ $-0.18761 (10)$ $0.28288 (10)$ $0.0433 (3)$	H46	0.5889	0.0134	0.3020	0.028*
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C411	0.48388 (14)	0.21494 (13)	0.37987 (13)	0.0298 (3)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	O411	0.48586 (11)	0.20351 (11)	0.27857 (10)	0.0394 (3)
N430.73412 (14)0.18513 (13)0.79160 (12)0.0387 (3)O4310.68879 (14)0.27080 (13)0.83989 (11)0.0555 (3)O4320.81408 (17)0.13945 (15)0.85243 (12)0.0690 (4)N450.73858 (13)-0.12129 (12)0.40094 (12)0.0341 (3)O4510.83761 (16)-0.14320 (16)0.46933 (13)0.0756 (5)O4520.67240 (12)-0.18761 (10)0.28288 (10)0.0433 (3)	O412	0.42093 (13)	0.27683 (14)	0.42999 (11)	0.0571 (4)
O4310.68879 (14)0.27080 (13)0.83989 (11)0.0555 (3)O4320.81408 (17)0.13945 (15)0.85243 (12)0.0690 (4)N450.73858 (13)-0.12129 (12)0.40094 (12)0.0341 (3)O4510.83761 (16)-0.14320 (16)0.46933 (13)0.0756 (5)O4520.67240 (12)-0.18761 (10)0.28288 (10)0.0433 (3)	N43	0.73412 (14)	0.18513 (13)	0.79160 (12)	0.0387 (3)
O4320.81408 (17)0.13945 (15)0.85243 (12)0.0690 (4)N450.73858 (13)-0.12129 (12)0.40094 (12)0.0341 (3)O4510.83761 (16)-0.14320 (16)0.46933 (13)0.0756 (5)O4520.67240 (12)-0.18761 (10)0.28288 (10)0.0433 (3)	O431	0.68879 (14)	0.27080 (13)	0.83989 (11)	0.0555 (3)
N450.73858 (13)-0.12129 (12)0.40094 (12)0.0341 (3)O4510.83761 (16)-0.14320 (16)0.46933 (13)0.0756 (5)O4520.67240 (12)-0.18761 (10)0.28288 (10)0.0433 (3)	O432	0.81408 (17)	0.13945 (15)	0.85243 (12)	0.0690 (4)
O4510.83761 (16)-0.14320 (16)0.46933 (13)0.0756 (5)O4520.67240 (12)-0.18761 (10)0.28288 (10)0.0433 (3)	N45	0.73858 (13)	-0.12129 (12)	0.40094 (12)	0.0341 (3)
O452 0.67240 (12) -0.18761 (10) 0.28288 (10) 0.0433 (3)	O451	0.83761 (16)	-0.14320 (16)	0.46933 (13)	0.0756 (5)
	O452	0.67240 (12)	-0.18761 (10)	0.28288 (10)	0.0433 (3)

Atomic displacement parameters (\AA^2)

	U^{11}	U^{22}	U^{33}	U^{12}	U^{13}	U^{23}
C1	0.0193 (5)	0.0205 (5)	0.0185 (5)	0.0088 (4)	0.0076 (4)	0.0113 (4)
01	0.0246 (4)	0.0304 (5)	0.0200 (4)	0.0149 (4)	0.0079 (3)	0.0138 (3)
C2	0.0215 (6)	0.0198 (5)	0.0226 (5)	0.0083 (4)	0.0106 (4)	0.0109 (4)
C3	0.0228 (6)	0.0197 (5)	0.0284 (6)	0.0097 (5)	0.0135 (5)	0.0122 (5)
C11	0.0186 (5)	0.0205 (5)	0.0254 (6)	0.0078 (4)	0.0111 (5)	0.0141 (4)
C12	0.0270 (6)	0.0309 (6)	0.0272 (6)	0.0139 (5)	0.0129 (5)	0.0177 (5)

C13	0.0325 (7)	0.0411 (8)	0.0423 (7)	0.0212 (6)	0.0195 (6)	0.0317 (6)
C14	0.0382 (8)	0.0309 (7)	0.0569 (9)	0.0223 (6)	0.0311 (7)	0.0305 (7)
C15	0.0370 (7)	0.0220 (6)	0.0412 (7)	0.0119 (5)	0.0243 (6)	0.0141 (5)
C16	0.0285 (6)	0.0233 (6)	0.0277 (6)	0.0098 (5)	0.0133 (5)	0.0126 (5)
C21	0.0220 (6)	0.0211 (6)	0.0241 (5)	0.0081 (5)	0.0109 (5)	0.0134 (4)
C22	0.0348 (7)	0.0226 (6)	0.0418 (7)	0.0121 (5)	0.0234 (6)	0.0163 (5)
C23	0.0438 (8)	0.0223 (6)	0.0441 (8)	0.0077 (6)	0.0258 (7)	0.0136 (6)
C24	0.0436 (8)	0.0274 (7)	0.0463 (8)	0.0052 (6)	0.0271 (7)	0.0179 (6)
C25	0.0354 (8)	0.0332 (7)	0.0540 (9)	0.0105 (6)	0.0295 (7)	0.0216 (6)
C26	0.0325 (7)	0.0246 (6)	0.0402 (7)	0.0108 (5)	0.0238 (6)	0.0159 (5)
N31	0.0189 (5)	0.0217 (5)	0.0220 (5)	0.0080 (4)	0.0092 (4)	0.0132 (4)
C32	0.0229 (6)	0.0426 (7)	0.0208 (6)	0.0083 (5)	0.0083 (5)	0.0148 (5)
C33	0.0294 (7)	0.0573 (9)	0.0252 (6)	0.0126 (7)	0.0154 (6)	0.0127 (6)
C34	0.0297 (7)	0.0611 (10)	0.0410 (8)	0.0148 (7)	0.0222 (6)	0.0290 (7)
C35	0.0204 (6)	0.0411 (8)	0.0362 (7)	0.0053 (6)	0.0116 (5)	0.0146 (6)
C36	0.0225 (6)	0.0275 (6)	0.0341 (7)	0.0025 (5)	0.0112 (5)	0.0087 (5)
C41	0.0199 (6)	0.0206 (5)	0.0314 (6)	0.0074 (5)	0.0102 (5)	0.0154 (5)
C42	0.0256 (6)	0.0197 (6)	0.0322 (6)	0.0090 (5)	0.0146 (5)	0.0131 (5)
C43	0.0297 (6)	0.0236 (6)	0.0273 (6)	0.0083 (5)	0.0137 (5)	0.0144 (5)
C44	0.0305 (7)	0.0274 (6)	0.0321 (6)	0.0144 (5)	0.0148 (5)	0.0205 (5)
C45	0.0264 (6)	0.0221 (6)	0.0329 (6)	0.0120 (5)	0.0162 (5)	0.0169 (5)
C46	0.0228 (6)	0.0215 (6)	0.0279 (6)	0.0077 (5)	0.0116 (5)	0.0149 (5)
C411	0.0291 (7)	0.0258 (6)	0.0328 (7)	0.0148 (5)	0.0100 (5)	0.0158 (5)
O411	0.0495 (6)	0.0435 (6)	0.0468 (6)	0.0300 (5)	0.0264 (5)	0.0343 (5)
O412	0.0659 (8)	0.0780 (9)	0.0382 (6)	0.0600 (7)	0.0233 (6)	0.0298 (6)
N43	0.0522 (8)	0.0376 (7)	0.0314 (6)	0.0204 (6)	0.0202 (6)	0.0192 (5)
O431	0.0820 (9)	0.0577 (7)	0.0393 (6)	0.0412 (7)	0.0359 (6)	0.0222 (5)
O432	0.1064 (11)	0.0804 (9)	0.0373 (6)	0.0633 (9)	0.0315 (7)	0.0383 (6)
N45	0.0459 (7)	0.0346 (6)	0.0365 (6)	0.0258 (6)	0.0237 (6)	0.0231 (5)
O451	0.0945 (11)	0.1011 (11)	0.0485 (7)	0.0853 (10)	0.0330 (7)	0.0385 (7)
O452	0.0612 (7)	0.0328 (5)	0.0372 (6)	0.0235 (5)	0.0239 (5)	0.0151 (4)

Geometric parameters (Å, °)

C1—01	1.4243 (13)	C26—H26A	0.9900
C1-C11	1.5310 (15)	C26—H26B	0.9900
C1—C2	1.5432 (16)	N31—C32	1.4941 (15)
C1—C21	1.5562 (16)	N31—C36	1.4984 (15)
01—H1	0.834 (18)	N31—H31	0.942 (15)
C2—C3	1.5252 (16)	C32—C33	1.5236 (19)
C2—H2A	0.9900	C32—H32A	0.9900
C2—H2B	0.9900	C32—H32B	0.9900
C3—N31	1.4972 (15)	C33—C34	1.524 (2)
С3—НЗА	0.9900	С33—Н33А	0.9900
С3—Н3В	0.9900	С33—Н33В	0.9900
C11—C16	1.3926 (17)	C34—C35	1.518 (2)
C11—C12	1.3966 (16)	C34—H34A	0.9900
C12—C13	1.3924 (18)	C34—H34B	0.9900

C12—H12	0.9500	C35—C36	1.5151 (19)
C13—C14	1.381 (2)	С35—Н35А	0.9900
С13—Н13	0.9500	С35—Н35В	0.9900
C14—C15	1.381 (2)	С36—Н36А	0.9900
C14—H14	0.9500	С36—Н36В	0.9900
C15—C16	1.3945 (18)	C41—C42	1.3870 (18)
C15—H15	0.9500	C41 - C46	1 3902 (17)
C16—H16	0.9500	C_{41} C_{411}	1.5750(16)
C_{21} C_{22}	1 5290 (16)	C42— $C43$	1.3230(10) 1.3831(17)
C_{21} C_{22}	1.5290(10) 1.5322(17)	C_{42} H_{42}	0.9500
$C_{21} = C_{20}$	1.0000	$C_{42} = 1142$	1.3704(18)
$C_{21} = 1121$	1.0000	C_{43} N_{43}	1.3794(18) 1.4712(17)
C_{22}	1.3298 (19)	C43—IN43	1.4/12(17)
C22—H22A	0.9900	C44 - C43	1.3780 (18)
C22—H22B	0.9900	C44—H44	0.9500
C23—C24	1.523 (2)	C45 - C46	1.3895 (16)
С23—Н23А	0.9900	C45—N45	1.4684 (16)
С23—Н23В	0.9900	C46—H46	0.9500
C24—C25	1.518 (2)	C411—O412	1.2392 (17)
C24—H24A	0.9900	C411—O411	1.2488 (17)
C24—H24B	0.9900	N43—O431	1.2195 (17)
C25—C26	1.5269 (18)	N43—O432	1.2211 (16)
C25—H25A	0.9900	N45—O451	1.2153 (16)
C25—H25B	0.9900	N45—O452	1.2163 (16)
O1—C1—C11	107.31 (9)	C25—C26—H26A	109.2
O1—C1—C2	109.01 (9)	C21—C26—H26A	109.2
C11—C1—C2	111.07 (9)	C25—C26—H26B	109.2
O1—C1—C21	110.45 (9)	C21—C26—H26B	109.2
C11—C1—C21	108.41 (9)	H26A—C26—H26B	107.9
C2—C1—C21	110.55 (9)	C32—N31—C3	112.66 (9)
C1	106.8 (11)	C32—N31—C36	110.68 (10)
C3—C2—C1	111.54 (9)	C3—N31—C36	110.31 (9)
$C_3 - C_2 - H_2 A$	109.3	C_{32} N31 H31	106.4 (9)
C1 - C2 - H2A	109.3	C3—N31—H31	107.9 (9)
$C_3 - C_2 - H_2B$	109.3	C_{36} N31 H31	107.9(9)
C1 - C2 - H2B	109.3	N31-C32-C33	100.0(9)
$H_2 \Delta (C_2) = H_2 B$	108.0	N31_C32_H32A	109.5
$N_{21} = C_2 = C_2$	112 50 (0)	C_{32} C_{32} H_{32A}	109.5
$N_{31} = C_{3} = C_{2}$	112.30 (9)	N21 C22 H22P	109.5
131 - 03 - 113A	109.1	N31 - C32 - H32B	109.5
С2—С3—ПЗА N21—С2—Н2Р	109.1		109.3
N31 - C3 - H3B	109.1	H32A—C32—H32B	108.1
C2—C3—H3B	109.1	$C_{32} = C_{33} = C_{34}$	111.08 (13)
H3A—C3—H3B	107.8	C32—C33—H33A	109.4
C16—C11—C12	118.22 (11)	C34—C33—H33A	109.4
C16—C11—C1	121.30 (10)	C32—C33—H33B	109.4
C12—C11—C1	120.27 (11)	C34—C33—H33B	109.4
C13—C12—C11	120.64 (12)	H33A—C33—H33B	108.0
C13—C12—H12	119.7	C35—C34—C33	109.98 (11)

C11—C12—H12	119.7	C35—C34—H34A	109.7
C14—C13—C12	120.50 (12)	C33—C34—H34A	109.7
C14—C13—H13	119.8	C35—C34—H34B	109.7
C12—C13—H13	119.8	C33—C34—H34B	109.7
C13—C14—C15	119.46 (12)	H34A—C34—H34B	108.2
C13—C14—H14	120.3	C36—C35—C34	110.94 (11)
C15—C14—H14	120.3	С36—С35—Н35А	109.5
C14—C15—C16	120.36 (13)	C34—C35—H35A	109.5
C14-C15-H15	119.8	C36—C35—H35B	109.5
C16-C15-H15	119.8	C34—C35—H35B	109.5
C_{11} $-C_{16}$ $-C_{15}$	120.79 (12)	H35A_C35_H35B	108.0
C_{11} C_{16} H_{16}	119.6	N31-C36-C35	111 39 (11)
C_{15} C_{16} H_{16}	119.6	N31 C36 H36A	100.3
$C_{13}^{$	100.28 (10)	C_{25} C_{26} H_{26A}	109.3
$C_{22} = C_{21} = C_{20}$	109.28(10) 112.00(10)	N21 C26 U26D	109.3
$C_{22} = C_{21} = C_{1}$	112.90 (10)	N31-C30-H30B	109.3
C_{20} C_{21} C_{11}	111.07 (10)		109.5
C22—C21—H21	107.8	H36A-C36-H36B	108.0
C26—C21—H21	107.8	C42-C41-C46	119.83 (11)
C1—C21—H21	107.8	C42—C41—C411	118.64 (11)
C21—C22—C23	112.23 (11)	C46—C41—C411	121.53 (11)
C21—C22—H22A	109.2	C43—C42—C41	119.35 (11)
C23—C22—H22A	109.2	C43—C42—H42	120.3
C21—C22—H22B	109.2	C41—C42—H42	120.3
C23—C22—H22B	109.2	C44—C43—C42	122.62 (12)
H22A—C22—H22B	107.9	C44—C43—N43	118.58 (11)
C24—C23—C22	112.00 (12)	C42—C43—N43	118.80 (12)
C24—C23—H23A	109.2	C45—C44—C43	116.45 (11)
С22—С23—Н23А	109.2	C45—C44—H44	121.8
С24—С23—Н23В	109.2	C43—C44—H44	121.8
С22—С23—Н23В	109.2	C44—C45—C46	123.31 (12)
H23A—C23—H23B	107.9	C44—C45—N45	117.53 (11)
C25—C24—C23	110.25 (12)	C46—C45—N45	119.15 (11)
C25—C24—H24A	109.6	C45—C46—C41	118.33 (11)
C23—C24—H24A	109.6	C45—C46—H46	120.8
C25—C24—H24B	109.6	C41—C46—H46	120.8
C23—C24—H24B	109.6	O412—C411—O411	127.63 (12)
H24A—C24—H24B	108.1	O412—C411—C41	115.60 (12)
C_{24} C_{25} C_{26}	111.10 (12)	O411—C411—C41	116.77 (11)
C24—C25—H25A	109.4	0431 - N43 - 0432	123.94 (13)
C26—C25—H25A	109.4	0431 - N43 - C43	118 29 (12)
C_{24} C_{25} H_{25R}	109.1	0432 - N43 - C43	117 76 (12)
C26—C25—H25B	109.4	0451—N45—0452	123 51 (13)
$H_{25}A = C_{25} = H_{25}B$	109.4	0451 - N45 - C45	123.51(13) 118.05(12)
C_{25} C	111 08 (11)	0452 - N45 - C45	118.03(12) 118.43(11)
025-020-021	111.20 (11)	UTJ2—INTJ—UTJ	110.43 (11)
O1—C1—C2—C3	-59.48 (12)	C2-C3-N31-C36	-168.65 (10)
C11—C1—C2—C3	58.55 (12)	C3—N31—C32—C33	-178.36 (11)
C21—C1—C2—C3	178.93 (9)	C36—N31—C32—C33	57.61 (14)

C1—C2—C3—N31	151.06 (9)	N31—C32—C33—C34	-57.20(16)
O1—C1—C11—C16	-13.05(15)	C32—C33—C34—C35	55.72 (17)
C2-C1-C11-C16	-132.11 (11)	C33—C34—C35—C36	-55.20 (17)
C21—C1—C11—C16	106.24 (12)	C32—N31—C36—C35	-57.67 (14)
O1—C1—C11—C12	172.21 (10)	C3—N31—C36—C35	176.97 (10)
C2-C1-C11-C12	53.16 (14)	C34—C35—C36—N31	56.62 (16)
C21—C1—C11—C12	-68.49 (13)	C46—C41—C42—C43	2.93 (18)
C16—C11—C12—C13	0.57 (19)	C411—C41—C42—C43	-176.29 (11)
C1-C11-C12-C13	175.46 (12)	C41—C42—C43—C44	-2.27 (19)
C11—C12—C13—C14	-2.0 (2)	C41—C42—C43—N43	177.95 (11)
C12—C13—C14—C15	1.9 (2)	C42—C43—C44—C45	-0.52 (19)
C13—C14—C15—C16	-0.5 (2)	N43—C43—C44—C45	179.25 (12)
C12—C11—C16—C15	0.85 (18)	C43—C44—C45—C46	2.75 (19)
C1-C11-C16-C15	-173.99 (11)	C43—C44—C45—N45	-177.01 (11)
C14—C15—C16—C11	-0.9 (2)	C44—C45—C46—C41	-2.10 (19)
O1—C1—C21—C22	-66.93 (13)	N45—C45—C46—C41	177.65 (11)
C11—C1—C21—C22	175.76 (10)	C42—C41—C46—C45	-0.84 (18)
C2-C1-C21-C22	53.80 (12)	C411—C41—C46—C45	178.36 (11)
O1—C1—C21—C26	56.22 (12)	C42—C41—C411—O412	-19.47 (18)
C11—C1—C21—C26	-61.08 (12)	C46—C41—C411—O412	161.32 (13)
C2-C1-C21-C26	176.96 (9)	C42—C41—C411—O411	159.59 (12)
C26—C21—C22—C23	54.22 (15)	C46—C41—C411—O411	-19.62 (18)
C1—C21—C22—C23	178.36 (10)	C44—C43—N43—O431	-177.62 (14)
C21—C22—C23—C24	-55.07 (16)	C42—C43—N43—O431	2.2 (2)
C22—C23—C24—C25	54.99 (17)	C44—C43—N43—O432	3.4 (2)
C23—C24—C25—C26	-56.14 (17)	C42—C43—N43—O432	-176.77 (14)
C24—C25—C26—C21	57.78 (15)	C44—C45—N45—O451	-20.5 (2)
C22—C21—C26—C25	-55.75 (14)	C46—C45—N45—O451	159.71 (14)
C1-C21-C26-C25	179.04 (10)	C44—C45—N45—O452	158.66 (13)
C2—C3—N31—C32	67.11 (12)	C46—C45—N45—O452	-21.11 (18)

Hydrogen-bond geometry (Å, °)

D—H···A	<i>D</i> —Н	H···A	$D \cdots A$	D—H··· A
01—H1…O412	0.84 (2)	1.91 (2)	2.724 (2)	165.9 (16)
N31—H31…O411	0.942 (18)	1.762 (18)	2.7026 (18)	175.7 (14)
C33—H33 <i>A</i> ···O452 ⁱ	0.99	2.49	3.4202 (17)	157
C36—H36A···O1 ⁱⁱ	0.99	2.56	3.4025 (16)	144
C36—H36A···O412 ⁱⁱ	0.99	2.51	3.3949 (19)	148

Symmetry codes: (i) -*x*+1, -*y*, -*z*; (ii) -*x*+1, -*y*+1, -*z*+1.

(Z)-3-(2-Chloro-9H-thioxanthen-9-yl)-N,N-dimethylpropan-1-aminium hydrogen bis(3,5-dinitrobenzoate) (II)

<i>b</i> = 24.3857 (16) Å
c = 11.6098 (8) Å
$\beta = 93.691 (1)^{\circ}$
$V = 3205.4 (4) \text{ Å}^3$

Z = 4 F(000) = 1528 $D_x = 1.534 \text{ Mg m}^{-3}$ Mo K\alpha radiation, $\lambda = 0.71073 \text{ Å}$ Cell parameters from 7139 reflections

Data collection

Dura concerión	
Bruker APEXII CCD	17539 measured reflections
diffractometer	7139 independent reflections
Radiation source: fine focus sealed tube	6365 reflections with $I > 2\sigma(I)$
Graphite monochromator	$R_{\rm int} = 0.022$
Detector resolution: 0.3333 pixels mm ⁻¹	$\theta_{\max} = 27.4^{\circ}, \ \theta_{\min} = 1.8^{\circ}$
φ and ω scans	$h = -14 \rightarrow 10$
Absorption correction: multi-scan	$k = -31 \rightarrow 29$
(SADABS; Bruker, 2015)	$l = -14 \rightarrow 14$
$T_{\min} = 0.866, \ T_{\max} = 0.927$	
Refinement	
Refinement on F^2	Hydrogen site location: mixed

 $\theta = 1.8 - 27.4^{\circ}$

 $\mu = 0.26 \text{ mm}^{-1}$

Block, colourless

 $0.57 \times 0.32 \times 0.30 \text{ mm}$

H atoms treated by a mixture of independent

 $w = 1/[\sigma^2(F_o^2) + (0.0482P)^2 + 1.3713P]$

and constrained refinement

where $P = (F_o^2 + 2F_c^2)/3$

 $(\Delta/\sigma)_{\rm max} = 0.001$ $\Delta\rho_{\rm max} = 0.53 \text{ e} \text{ Å}^{-3}$

 $\Delta \rho_{\rm min} = -0.40 \ {\rm e} \ {\rm \AA}^{-3}$

T = 173 K

Refinement on F^2 Least-squares matrix: full $R[F^2 > 2\sigma(F^2)] = 0.036$ $wR(F^2) = 0.098$ S = 1.047139 reflections 469 parameters 0 restraints

Special details

Geometry. All esds (except the esd in the dihedral angle between two l.s. planes) are estimated using the full covariance matrix. The cell esds are taken into account individually in the estimation of esds in distances, angles and torsion angles; correlations between esds in cell parameters are only used when they are defined by crystal symmetry. An approximate (isotropic) treatment of cell esds is used for estimating esds involving l.s. planes.

Fractional atomic coordinates and isotropic or equivalent isotropic displacement parameters $(Å^2)$

	X	У	Ζ	$U_{ m iso}$ */ $U_{ m eq}$	
N1	0.46269 (10)	0.12939 (5)	0.57731 (10)	0.0223 (2)	
H1	0.4447 (15)	0.1572 (7)	0.6191 (15)	0.027*	
C1	0.38593 (12)	0.13344 (6)	0.46761 (12)	0.0246 (3)	
H1A	0.3964	0.0999	0.4214	0.029*	
H1B	0.4126	0.1650	0.4223	0.029*	
C2	0.25502 (12)	0.14048 (6)	0.48634 (12)	0.0261 (3)	
H2A	0.2230	0.1063	0.5182	0.031*	
H2B	0.2439	0.1706	0.5418	0.031*	
C3	0.19115 (12)	0.15364 (6)	0.37157 (12)	0.0245 (3)	
H4	0.2297	0.1786	0.3237	0.029*	
C11	-0.01624 (12)	0.11072 (5)	0.50768 (12)	0.0239 (3)	
H11	0.0195	0.1416	0.5457	0.029*	
C12	-0.09218 (12)	0.07758 (6)	0.56502 (12)	0.0262 (3)	
Cl12	-0.12220 (4)	0.09270 (2)	0.70590 (3)	0.03840 (11)	
C13	-0.14546 (13)	0.03194 (6)	0.51215 (14)	0.0295 (3)	
H13	-0.1956	0.0089	0.5533	0.035*	

C14	-0.12428(13)	0.02074 (6)	0.39893 (13)	0.0291 (3)
H14	-0.1610	-0.0100	0.3615	0.035*
C14A	-0.04963(12)	0.05410 (5)	0.33893 (12)	0.0242 (3)
C14B	-0.01152 (12)	0.10620 (6)	0.13901 (12)	0.0244 (3)
C15	-0.04959(12)	0.11668 (7)	0.02414 (12)	0.0290 (3)
H15	-0.0848	0.0883	-0.0223	0.035*
C16	-0.03588(13)	0.16844(7)	-0.02156(13)	0.0319(3)
H16	-0.0612	0.1756	-0.0997	0.0319 (3)
C17	0.0012	0.1750 0.21007(7)	0.0997 0.04673 (13)	0.030
H17	0.0233	0.2458	0.0155	0.0319 (5)
C18	0.0235	0.2456	0.0155	0.033
U10	0.03333 (12)	0.13304 (0)	0.10030 (12)	0.0273 (3)
	0.0000	0.2264 0.14727(6)	0.2003	0.033°
CION	0.04243(11) 0.00708(11)	0.14/2/(0)	0.20842(11) 0.20287(12)	0.0228(3)
	0.00798(11)	0.09882(3)	0.39387 (12)	0.0218(3)
C19 C10	0.08673(12)	0.13438(5)	0.32901 (11)	0.0224(3)
S10	-0.02859 (4)	0.03901 (2)	0.19275 (3)	0.03131 (10)
CIII	0.58939 (13)	0.13566 (7)	0.55300 (14)	0.0342 (3)
H11A	0.6382	0.1352	0.6258	0.051*
H11B	0.6005	0.1705	0.5132	0.051*
H11C	0.6128	0.1053	0.5040	0.051*
C112	0.44364 (15)	0.07721 (6)	0.63983 (13)	0.0339 (3)
H11D	0.4597	0.0461	0.5897	0.051*
H11E	0.3617	0.0754	0.6615	0.051*
H11F	0.4971	0.0757	0.7095	0.051*
C21	0.34839 (11)	0.33156 (5)	0.58695 (11)	0.0213 (3)
C22	0.29675 (12)	0.32558 (6)	0.47617 (12)	0.0235 (3)
H22	0.2962	0.2910	0.4383	0.028*
C23	0.24587 (12)	0.37130 (6)	0.42191 (12)	0.0246 (3)
C24	0.24301 (12)	0.42245 (6)	0.47285 (12)	0.0258 (3)
H24	0.2080	0.4532	0.4337	0.031*
C25	0.29399 (12)	0.42643 (6)	0.58389(12)	0.0239 (3)
C26	0.34720 (11)	0.38231 (6)	0.64140 (12)	0.0226 (3)
H26	0.3825	0.3867	0.7173	0.027*
C211	0.40906 (11)	0.28301 (5)	0.64702 (11)	0.0222(3)
O211	0.45673 (10)	0.29421 (4)	0.74604 (9)	0.0345 (3)
0212	0.40959 (10)	0.23880 (4)	0.59644 (9)	0.0335(2)
N23	0.19402 (11)	0.36503 (6)	0.30332 (11)	0.0324(3)
0231	0.19102(11) 0.18250(13)	0.31902(5)	0.26351(10)	0.0521(3)
0231	0.16581(13)	0.91902(5) 0.40671(5)	0.24991 (11)	0.0313(3) 0.0484(3)
N25	0.29378(11)	0.48001(5)	0.21991(11) 0.64322(12)	0.0314(3)
0251	0.25334(12)	0.51046 (5)	0.58850(11)	0.0314(3)
0251	0.23334(12) 0.33426(12)	0.51940(5) 0.48210(5)	0.38830(11) 0.74342(11)	0.0440(3)
C21	0.53420(12) 0.63540(11)	0.40210(5) 0.17006(6)	1,00227(12)	0.0434(3)
C31 C22	0.03340(11) 0.70062(12)	0.17000(0)	1.00227(12) 1.07526(12)	0.0231(3)
U32	0.70002(12)	0.20309 (3)	1.07320 (12)	0.0233(3)
пэ2 С22	0.7188	0.241/	1.0304	0.0251(2)
C33	0.73852 (12)	0.18/80(0)	1.18400 (12)	0.0251(3)
034	0.71344 (12)	0.13625 (6)	1.22519 (13)	0.0277 (3)
H34	0.7381	0.1250	1.3013	0.033*

C35	0.65054 (12)	0.10178 (6)	1.14944 (13)	0.0274 (3)	
C36	0.61247 (12)	0.11696 (6)	1.03830 (13)	0.0255 (3)	
H36	0.5716	0.0917	0.9878	0.031*	
C311	0.57941 (12)	0.18953 (6)	0.88847 (12)	0.0248 (3)	
O311	0.52336 (11)	0.15826 (5)	0.82386 (9)	0.0390 (3)	
O312	0.59247 (10)	0.24171 (4)	0.87186 (9)	0.0317 (2)	
H312	0.533 (3)	0.2576 (13)	0.808 (3)	0.099 (10)*	
N33	0.80516 (11)	0.22598 (5)	1.26284 (11)	0.0321 (3)	
O331	0.82007 (12)	0.27274 (5)	1.22899 (11)	0.0449 (3)	
O332	0.84145 (11)	0.20876 (5)	1.35770 (10)	0.0441 (3)	
N35	0.61594 (12)	0.04780 (5)	1.19234 (13)	0.0363 (3)	
O351	0.62170 (13)	0.04108 (6)	1.29795 (12)	0.0563 (4)	
O352	0.57984 (13)	0.01343 (5)	1.12204 (13)	0.0514 (3)	

Atomic displacement parameters $(Å^2)$

	U^{11}	U^{22}	U^{33}	U^{12}	U^{13}	<i>U</i> ²³
N1	0.0241 (6)	0.0184 (5)	0.0237 (6)	-0.0004 (4)	-0.0040 (4)	0.0005 (4)
C1	0.0263 (7)	0.0260 (7)	0.0207 (6)	-0.0005 (5)	-0.0043 (5)	0.0021 (5)
C2	0.0249 (7)	0.0294 (7)	0.0233 (7)	-0.0052 (5)	-0.0043 (5)	0.0028 (5)
C3	0.0239 (6)	0.0254 (7)	0.0239 (7)	-0.0021 (5)	-0.0022 (5)	0.0027 (5)
C11	0.0239 (7)	0.0202 (6)	0.0269 (7)	0.0015 (5)	-0.0040 (5)	0.0014 (5)
C12	0.0251 (7)	0.0259 (7)	0.0273 (7)	0.0052 (5)	-0.0003 (5)	0.0042 (5)
Cl12	0.0427 (2)	0.0438 (2)	0.02942 (19)	0.00309 (17)	0.00775 (15)	0.00411 (15)
C13	0.0239 (7)	0.0250 (7)	0.0393 (8)	-0.0008 (5)	-0.0004 (6)	0.0081 (6)
C14	0.0267 (7)	0.0198 (7)	0.0397 (8)	-0.0019 (5)	-0.0071 (6)	0.0015 (6)
C14A	0.0239 (7)	0.0198 (6)	0.0279 (7)	0.0036 (5)	-0.0063 (5)	0.0000 (5)
C14B	0.0202 (6)	0.0270 (7)	0.0259 (7)	0.0046 (5)	-0.0005 (5)	-0.0018 (5)
C15	0.0236 (7)	0.0390 (8)	0.0240 (7)	0.0046 (6)	-0.0023 (5)	-0.0047 (6)
C16	0.0266 (7)	0.0461 (9)	0.0226 (7)	0.0071 (6)	-0.0014 (5)	0.0033 (6)
C17	0.0279 (7)	0.0369 (8)	0.0308 (8)	0.0029 (6)	0.0015 (6)	0.0100 (6)
C18	0.0230 (7)	0.0296 (7)	0.0297 (7)	-0.0009 (5)	-0.0010 (5)	0.0023 (6)
C18A	0.0175 (6)	0.0275 (7)	0.0233 (6)	0.0022 (5)	-0.0009 (5)	0.0003 (5)
C18B	0.0199 (6)	0.0184 (6)	0.0263 (7)	0.0019 (5)	-0.0045 (5)	0.0017 (5)
C19	0.0225 (6)	0.0206 (6)	0.0235 (6)	0.0017 (5)	-0.0023 (5)	-0.0006 (5)
S10	0.0409 (2)	0.02266 (18)	0.02939 (19)	0.00226 (14)	-0.00557 (15)	-0.00520 (13)
C111	0.0230 (7)	0.0406 (9)	0.0384 (8)	0.0024 (6)	-0.0031 (6)	0.0023 (7)
C112	0.0449 (9)	0.0243 (7)	0.0311 (8)	-0.0040 (6)	-0.0090 (6)	0.0084 (6)
C21	0.0179 (6)	0.0223 (6)	0.0240 (6)	-0.0001 (5)	0.0026 (5)	0.0033 (5)
C22	0.0222 (6)	0.0236 (7)	0.0246 (6)	-0.0027 (5)	0.0014 (5)	0.0018 (5)
C23	0.0209 (6)	0.0296 (7)	0.0230 (7)	-0.0028 (5)	-0.0005 (5)	0.0051 (5)
C24	0.0213 (6)	0.0258 (7)	0.0304 (7)	0.0023 (5)	0.0030 (5)	0.0089 (5)
C25	0.0206 (6)	0.0212 (6)	0.0304 (7)	0.0012 (5)	0.0051 (5)	0.0015 (5)
C26	0.0196 (6)	0.0251 (7)	0.0231 (6)	-0.0007 (5)	0.0017 (5)	0.0022 (5)
C211	0.0207 (6)	0.0224 (6)	0.0236 (6)	0.0015 (5)	0.0013 (5)	0.0025 (5)
O211	0.0464 (6)	0.0297 (5)	0.0260 (5)	0.0143 (5)	-0.0089 (4)	-0.0024 (4)
O212	0.0435 (6)	0.0210 (5)	0.0344 (6)	0.0046 (4)	-0.0092 (5)	-0.0014 (4)
N23	0.0331 (7)	0.0376 (7)	0.0257 (6)	-0.0022 (5)	-0.0035 (5)	0.0070 (5)

O231	0.0792 (10)	0.0407 (7)	0.0320 (6)	-0.0072 (6)	-0.0157 (6)	-0.0005 (5)
O232	0.0626 (8)	0.0452 (7)	0.0350 (6)	0.0073 (6)	-0.0147 (6)	0.0137 (5)
N25	0.0315 (6)	0.0240 (6)	0.0391 (7)	0.0038 (5)	0.0071 (5)	-0.0005 (5)
O251	0.0621 (8)	0.0255 (6)	0.0474 (7)	0.0155 (5)	0.0130 (6)	0.0065 (5)
O252	0.0563 (8)	0.0337 (6)	0.0447 (7)	0.0083 (5)	-0.0094 (6)	-0.0113 (5)
C31	0.0211 (6)	0.0228 (6)	0.0260 (7)	0.0041 (5)	0.0055 (5)	0.0020 (5)
C32	0.0223 (6)	0.0195 (6)	0.0291 (7)	0.0040 (5)	0.0036 (5)	0.0026 (5)
C33	0.0214 (6)	0.0249 (7)	0.0289 (7)	0.0055 (5)	0.0016 (5)	-0.0004(5)
C34	0.0234 (7)	0.0297 (7)	0.0300(7)	0.0076 (5)	0.0024 (5)	0.0070 (6)
C35	0.0221 (7)	0.0213 (7)	0.0393 (8)	0.0048 (5)	0.0061 (6)	0.0090 (6)
C36	0.0217 (6)	0.0229 (7)	0.0323 (7)	0.0022 (5)	0.0050 (5)	0.0005 (5)
C311	0.0226 (6)	0.0269 (7)	0.0255 (7)	0.0015 (5)	0.0049 (5)	0.0011 (5)
O311	0.0533 (7)	0.0325 (6)	0.0300 (6)	-0.0053 (5)	-0.0068(5)	-0.0006 (4)
O312	0.0335 (6)	0.0264 (5)	0.0340 (6)	-0.0007 (4)	-0.0064 (4)	0.0083 (4)
N33	0.0312 (7)	0.0320 (7)	0.0327 (7)	0.0075 (5)	-0.0026 (5)	-0.0048 (5)
O331	0.0566 (8)	0.0308 (6)	0.0460 (7)	-0.0070 (5)	-0.0067 (6)	-0.0034 (5)
O332	0.0502 (7)	0.0450 (7)	0.0351 (6)	0.0144 (6)	-0.0146 (5)	-0.0037 (5)
N35	0.0291 (7)	0.0271 (7)	0.0525 (9)	0.0005 (5)	0.0003 (6)	0.0147 (6)
O351	0.0582 (8)	0.0542 (8)	0.0540 (8)	-0.0174 (6)	-0.0167 (6)	0.0333 (7)
O352	0.0638 (9)	0.0254 (6)	0.0670 (9)	-0.0057 (6)	0.0196 (7)	0.0031 (6)

Geometric parameters (Å, °)

N1—C112	1.4874 (18)	C112—H11E	0.9800
N1-C111	1.4905 (19)	C112—H11F	0.9800
N1C1	1.4993 (16)	C21—C22	1.3862 (19)
N1—H1	0.867 (18)	C21—C26	1.3902 (19)
C1—C2	1.5245 (19)	C21—C211	1.5167 (18)
C1—H1A	0.9900	C22—C23	1.3879 (19)
C1—H1B	0.9900	C22—H22	0.9500
C2—C3	1.5096 (18)	C23—C24	1.382 (2)
C2—H2A	0.9900	C23—N23	1.4699 (18)
C2—H2B	0.9900	C24—C25	1.382 (2)
C3—C19	1.3390 (19)	C24—H24	0.9500
С3—Н4	0.9500	C25—C26	1.3842 (19)
C11—C12	1.383 (2)	C25—N25	1.4771 (18)
C11—C18B	1.3973 (19)	C26—H26	0.9500
C11—H11	0.9500	C211—O212	1.2278 (17)
C12—C13	1.390 (2)	C211—O211	1.2684 (17)
C12-C112	1.7317 (15)	N23—O231	1.2173 (19)
C13—C14	1.379 (2)	N23—O232	1.2226 (17)
С13—Н13	0.9500	N25—O252	1.2239 (18)
C14—C14A	1.393 (2)	N25—O251	1.2254 (17)
C14—H14	0.9500	C31—C36	1.3905 (19)
C14A—C18B	1.4034 (18)	C31—C32	1.3928 (19)
C14A—S10	1.7677 (14)	C31—C311	1.5054 (19)
C14B—C15	1.3986 (19)	C32—C33	1.3846 (19)
C14B—C18A	1.4013 (19)	С32—Н32	0.9500

C14B—S10	1.7685 (15)	C33—C34	1.380 (2)
C15—C16	1.382 (2)	C33—N33	1.4735 (19)
C15—H15	0.9500	C34—C35	1.381 (2)
C16—C17	1.390 (2)	C34—H34	0.9500
C16—H16	0.9500	C35—C36	1.384(2)
C17 $C18$	1.387(2)	C35 N35	1.367(2)
C17 - U17	0.0500	C36 H36	0.0500
C_{1}^{1}	0.9300	C311 0211	1,2105 (19)
	1.403 (2)		1.2193 (18)
	0.9500	0311-0312	1.2968 (18)
C18A—C19	1.4901 (18)	O312—H312	1.04 (3)
C18B—C19	1.4847 (19)	N33—O331	1.2215 (18)
C111—H11A	0.9800	N33—O332	1.2249 (17)
C111—H11B	0.9800	N35—O352	1.222 (2)
C111—H11C	0.9800	N35—O351	1.2346 (19)
C112—H11D	0.9800		
C112—N1—C111	110.63 (12)	H11A—C111—H11C	109.5
C112—N1—C1	112.10 (11)	H11B—C111—H11C	109.5
C111—N1—C1	110.30 (11)	N1-C112-H11D	109.5
C112—N1—H1	110.50(11)	N1-C112-H11F	109.5
C111 N1 H1	106.9 (11)	HIID CI12 HIIE	109.5
C1 N1 H1	106.2(11)	N1 C112 H11E	109.5
	100.2(11) 112.84(11)		109.5
	113.84 (11)	HIID—CII2—HIIF	109.5
NI—CI—HIA	108.8	HIIE—CII2—HIIF	109.5
C2—C1—H1A	108.8	C22—C21—C26	119.97 (12)
N1—C1—H1B	108.8	C22—C21—C211	119.78 (12)
C2—C1—H1B	108.8	C26—C21—C211	120.22 (12)
H1A—C1—H1B	107.7	C21—C22—C23	118.38 (13)
C3—C2—C1	108.34 (11)	C21—C22—H22	120.8
C3—C2—H2A	110.0	С23—С22—Н22	120.8
C1—C2—H2A	110.0	C24—C23—C22	123.46 (13)
C3—C2—H2B	110.0	C24—C23—N23	118.42 (12)
C1—C2—H2B	110.0	C22—C23—N23	118.12 (13)
H2A—C2—H2B	108.4	C_{23} — C_{24} — C_{25}	116.29 (12)
C19 - C3 - C2	127.90 (13)	C_{23} C_{24} H_{24}	121.9
C19 - C3 - H4	116.1	$C_{25} = C_{24} = H_{24}$	121.9
$C_2 C_3 H_4$	116.1	$C_{23} C_{24} C_{25} C_{26}$	121.9 122.50(13)
$C_2 = C_3 = 114$	110.1 120.02(12)	$C_{24} = C_{25} = C_{20}$	122.39(13) 118.05(12)
	120.02 (13)	$C_{24} = C_{25} = N_{25}$	110.93(12)
	120.0	$C_{20} = C_{23} = N_{23}$	118.45 (12)
CI8B—CII—HII	120.0	C25—C26—C21	119.30 (12)
C11—C12—C13	121.47 (13)	C25—C26—H26	120.3
C11—C12—C112	119.77 (11)	C21—C26—H26	120.3
C13—C12—C112	118.76 (11)	O212—C211—O211	127.43 (13)
C14—C13—C12	118.81 (13)	O212—C211—C21	118.79 (12)
C14—C13—H13	120.6	O211—C211—C21	113.76 (12)
С12—С13—Н13	120.6	С211—О211—Н312	122.5 (12)
C13—C14—C14A	120.66 (13)	O231—N23—O232	123.75 (13)
C13—C14—H14	119.7	O231—N23—C23	118.57 (12)

C14A—C14—H14	119.7	O232—N23—C23	117.68 (13)
C14—C14A—C18B	120.45 (13)	O252—N25—O251	124.41 (13)
C14—C14A—S10	118.85 (11)	O252—N25—C25	117.92 (12)
C18B—C14A—S10	120.70 (11)	O251—N25—C25	117.67 (13)
C15—C14B—C18A	120.96 (13)	C36—C31—C32	120.02 (13)
C15-C14B-S10	118.13 (11)	C36—C31—C311	118.77 (13)
C18A - C14B - S10	120.87 (10)	C_{32} C_{31} C_{311}	120.98(12)
C16-C15-C14B	119.83 (14)	$C_{33} - C_{32} - C_{31}$	118.92 (13)
C16-C15-H15	120.1	C_{33} C_{32} H_{32}	120.5
C14B— $C15$ — $H15$	120.1	$C_{31} - C_{32} - H_{32}$	120.5
C_{15} C_{16} C_{17}	120.1 120.05(13)	C_{34} C_{33} C_{32}	120.3 122.73(13)
$C_{15} = C_{16} = C_{17}$	120.05 (15)	$C_{34} = C_{33} = C_{32}$	122.75(13) 118.31(13)
C17 C16 H16	120.0	$C_{34} = C_{33} = N_{33}$	118.31(13) 118.03(13)
C17 - C10 - H10	120.0 120.18 (14)	$C_{32} = C_{33} = N_{33}$	116.93(13) 116.57(12)
$C_{10} = C_{17} = C_{10}$	120.16 (14)	$C_{33} = C_{34} = C_{35}$	110.37 (13)
C16 - C17 - H17	119.9	C_{33} C_{34} H_{34}	121.7
	119.9	C35—C34—H34	121.7
C17—C18—C18A	120.97 (14)	C34—C35—C36	123.23 (13)
С17—С18—Н18	119.5	C34—C35—N35	117.87 (13)
C18A—C18—H18	119.5	C36—C35—N35	118.76 (14)
C14B—C18A—C18	117.97 (12)	C35—C36—C31	118.44 (13)
C14B—C18A—C19	119.87 (12)	C35—C36—H36	120.8
C18—C18A—C19	122.16 (12)	C31—C36—H36	120.8
C11—C18B—C14A	118.49 (13)	O311—C311—O312	125.60 (13)
C11—C18B—C19	121.32 (12)	O311—C311—C31	121.09 (13)
C14A—C18B—C19	120.08 (12)	O312—C311—C31	113.22 (12)
C3—C19—C18B	124.38 (12)	С311—О312—Н312	113.3 (17)
C3—C19—C18A	120.64 (12)	O331—N33—O332	124.32 (14)
C18B-C19-C18A	114.98 (11)	O331—N33—C33	117.84 (12)
C14A—S10—C14B	99.81 (6)	O332—N33—C33	117.84 (13)
N1—C111—H11A	109.5	O352—N35—O351	124.48 (14)
N1—C111—H11B	109.5	O352—N35—C35	118.25 (14)
H11A—C111—H11B	109.5	O351—N35—C35	117.21 (14)
N1—C111—H11C	109.5		
C112—N1—C1—C2	69.34 (16)	C21—C22—C23—N23	178.42 (12)
C111—N1—C1—C2	-166.89(12)	C22—C23—C24—C25	-0.3(2)
N1-C1-C2-C3	170 47 (11)	N23-C23-C24-C25	-17931(12)
C1 - C2 - C3 - C19	138 56 (15)	C^{23} C^{24} C^{25} C^{26}	11(2)
C18B-C11-C12-C13	0.3(2)	$C_{23} = C_{24} = C_{25} = 0.20$	-179.97(12)
C18B-C11-C12-C112	-17978(10)	C_{24} C_{25} C_{26} C_{21} C_{26} C_{21}	-10(2)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-10(2)	N25 C25 C26 C21	$-170\ 94\ (12)$
$C_{112} = C_{12} = C_{13} = C_{14}$	1.9(2) 178 18(11)	$C_{22} = C_{23} = C_{20} = C_{21}$	179.94(12) 0.08(10)
$C_{12} = C_{12} = C_{13} = C_{14}$	0.8(2)	$C_{22} = C_{21} = C_{20} = C_{23}$	17825(12)
$C_{12} = C_{13} = C_{14} = C_{14} + C$	1.8(2)	$C_{211} = C_{21} = C_{20} = C_{23}$	-1.10(10)
$C_{13} = C_{14} = C_{14A} = C_{10}$	1.0(2) -178.21(11)	$C_{22} = C_{21} = C_{211} = O_{212}$	1.10(19) -170.29(12)
C13 - C14 - C14A - S10	-1/0.51(11) -1.1(2)	C_{20} C_{21} C_{211} C_{211	-1/9.38(13)
C10A - C14D - C13 - C10	$^{-1.1}(2)$	$C_{22} = C_{21} = C_{211} = O_{211}$	1/.41(12)
SIV - CI4B - CI5 - CI6	-1/8.89(11)	C_{20} C_{21} C_{211} C_{211} C_{211} C_{221} C_{221} C_{221} C_{221} C_{221}	-0.8/(18)
U14B-U13-U16-U1/	-0.4 (2)	U24—U25—N25—U251	-1/0.63(14)

C15-C16-C17-C18	0.9 (2)	C22—C23—N23—O231	10.3 (2)
C16—C17—C18—C18A	0.1 (2)	C24—C23—N23—O232	10.0 (2)
C15—C14B—C18A—C18	2.1 (2)	C22—C23—N23—O232	-169.06 (14)
S10-C14B-C18A-C18	179.79 (10)	C24—C25—N25—O252	176.56 (13)
C15—C14B—C18A—C19	-177.44 (12)	C26—C25—N25—O252	-4.5 (2)
S10-C14B-C18A-C19	0.28 (18)	C24—C25—N25—O251	-3.67 (19)
C17—C18—C18A—C14B	-1.6 (2)	C26—C25—N25—O251	175.28 (13)
C17—C18—C18A—C19	177.92 (13)	C36—C31—C32—C33	-2.00 (19)
C12-C11-C18B-C14A	2.32 (19)	C311—C31—C32—C33	172.38 (12)
C12-C11-C18B-C19	178.45 (12)	C31—C32—C33—C34	-0.7 (2)
C14—C14A—C18B—C11	-3.39 (19)	C31—C32—C33—N33	-178.60 (12)
S10-C14A-C18B-C11	176.76 (10)	C32—C33—C34—C35	1.9 (2)
C14—C14A—C18B—C19	-179.57 (12)	N33—C33—C34—C35	179.82 (12)
S10-C14A-C18B-C19	0.58 (17)	C33—C34—C35—C36	-0.5 (2)
C2-C3-C19-C18B	5.4 (2)	C33—C34—C35—N35	-176.22 (12)
C2-C3-C19-C18A	-173.53 (13)	C34—C35—C36—C31	-2.1 (2)
C11—C18B—C19—C3	45.7 (2)	N35—C35—C36—C31	173.65 (12)
C14A—C18B—C19—C3	-138.19 (14)	C32—C31—C36—C35	3.3 (2)
C11—C18B—C19—C18A	-135.27 (13)	C311—C31—C36—C35	-171.21 (12)
C14A—C18B—C19—C18A	40.80 (17)	C36—C31—C311—O311	-6.4 (2)
C14B—C18A—C19—C3	137.78 (14)	C32—C31—C311—O311	179.19 (13)
C18—C18A—C19—C3	-41.7 (2)	C36—C31—C311—O312	170.31 (12)
C14B—C18A—C19—C18B	-41.26 (17)	C32—C31—C311—O312	-4.14 (18)
C18—C18A—C19—C18B	139.25 (13)	C34—C33—N33—O331	-175.17 (14)
C14—C14A—S10—C14B	146.45 (11)	C32—C33—N33—O331	2.87 (19)
C18B—C14A—S10—C14B	-33.69 (12)	C34—C33—N33—O332	4.49 (19)
C15—C14B—S10—C14A	-148.97 (11)	C32—C33—N33—O332	-177.47 (13)
C18A—C14B—S10—C14A	33.25 (12)	C34—C35—N35—O352	-166.90 (14)
C26—C21—C22—C23	0.70 (19)	C36—C35—N35—O352	17.1 (2)
C211—C21—C22—C23	-177.59 (12)	C34—C35—N35—O351	15.6 (2)
C21—C22—C23—C24	-0.6 (2)	C36—C35—N35—O351	-160.41 (14)

Hydrogen-bond geometry (Å, °)

D—H···A	<i>D</i> —Н	H···A	$D \cdots A$	D—H···A
N1—H1…O212	0.866 (17)	2.046 (17)	2.7476 (16)	137.9 (15)
N1—H1…O311	0.866 (17)	2.485 (17)	2.9848 (16)	117.5 (14)
O312—H312…O211	1.04 (3)	1.41 (3)	2.4197 (15)	161 (3)
C1—H1 <i>B</i> ···O211 ⁱ	0.99	2.36	3.2621 (18)	151
C14—H14…O232 ⁱⁱ	0.95	2.41	3.2917 (19)	155
C18—H18···O231	0.95	2.53	3.4386 (19)	161

Symmetry codes: (i) *x*, –*y*+1/2, *z*–1/2; (ii) –*x*, *y*–1/2, –*z*+1/2.