

 $V = 4079.6 (10) \text{ Å}^3$ 

Mo  $K\alpha$  radiation

 $0.34 \times 0.20 \times 0.05 \text{ mm}$ 

21816 measured reflections 10014 independent reflections

7598 reflections with  $I > 2\sigma(I)$ 

 $\mu = 0.15 \text{ mm}^{-1}$ 

T = 100 K

 $R_{\rm int} = 0.039$ 

Z = 4

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## Poly[tetrakis(dimethylformamide)tris(µ<sub>4</sub>-terephthalato)trimagnesium]

# Vandavasi Koteswara Rao, Matthias Zeller and Sherri R. Lovelace-Cameron\*

Department of Chemistry, Youngstown State University, One University Plaza, Youngstown, OH 44555, USA Correspondence e-mail: srlovelacecameron@ysu.edu

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Key indicators: single-crystal X-ray study; T = 100 K; mean  $\sigma$ (C–C) = 0.004 Å; disorder in main residue; R factor = 0.066; wR factor = 0.149; data-to-parameter ratio = 17.4.

The title framework compound,  $[Mg_3(C_8H_4O_4)_3(C_3H_7NO)_4]_n$ or  $[Mg_3(bdc)_3(DMF)_4]_n$ , was obtained as a side product of the solvothermal reaction of magnesium nitrate, terephthalic acid (bdcH<sub>2</sub>), and 1,3-bis(4-pyridyl)propane in a 1:2:1 ratio in dimethylformamide (DMF). The asymmetric unit consists of three Mg<sup>II</sup> cations, three terephthalate anions, and four coordinating DMF molecules. One of the four DMF molecules was refined as disordered over two mutually exclusive positions, with an occupancy rate for the major moiety of 0.923 (4). The three Mg<sup>II</sup> cations possess distorted octahedral coordination geometries that form linear Mg trimers. Of the three Mg<sup>II</sup> cations, the central Mg<sup>II</sup> is octahedrally coordinated by six different carboxylate O atoms. The terminal Mg<sup>II</sup> cations are bonded to four O atoms of three bdc linkers and to two O atoms of coordinating DMF molecules. The compound has a two-dimensional 3<sup>6</sup>-network structure parallel to (001) that is formed by connection of the Mg trimers as distorted octahedral nodes to the bdc ligands as linkers.

#### **Related literature**

For background information on Mg- and Zn-bdc metalorganic frameworks, see: Mallick *et al.* (2011); Burrows *et al.* (2005); Edgar *et al.* (2001); Grzesiak *et al.* (2006); Rood *et al.* (2006); Davies *et al.* (2007); Williams *et al.* (2005).



#### **Experimental**

Crystal data

 $\begin{bmatrix} Mg_3(C_8H_4O_4)_3(C_3H_7NO)_4 \end{bmatrix} \\ M_r = 857.65 \\ Monoclinic, P2_1/c \\ a = 18.158 (2) Å \\ b = 9.5046 (13) Å \\ c = 24.066 (3) Å \\ \beta = 100.825 (2)^{\circ} \end{bmatrix}$ 

#### Data collection

Bruker SMART APEX CCD diffractometer Absorption correction: multi-scan (SADABS; Bruker, 2011)  $T_{min} = 0.619, T_{max} = 0.746$ 

#### Refinement

$$\begin{split} R[F^2 > 2\sigma(F^2)] &= 0.066 & 33 \text{ restraints} \\ wR(F^2) &= 0.149 & \text{H-atom parameters constrained} \\ S &= 1.12 & \Delta\rho_{\text{max}} &= 0.46 \text{ e } \text{ Å}^{-3} \\ 10014 \text{ reflections} & \Delta\rho_{\text{min}} &= -0.35 \text{ e } \text{ Å}^{-3} \\ 574 \text{ parameters} & \end{split}$$

Data collection: *APEX2* (Bruker, 2011); cell refinement: *SAINT* (Bruker, 2011); data reduction: *SAINT*; program(s) used to solve structure: *SHELXTL* (Sheldrick, 2008); program(s) used to refine structure: *SHELXLE* (Hübschle *et al.*, 2011) and *SHELXL9*7 (Sheldrick, 2008); molecular graphics: *DIAMOND* (Brandenburg, 2001); software used to prepare material for publication: *publCIF* (Westrip, 2010).

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Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: TK5144).

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# Acta Cryst. (2012). E68, m1291–m1292 [https://doi.org/10.1107/S1600536812038949] Poly[tetrakis(dimethylformamide)tris(µ4-terephthalato)trimagnesium] Vandavasi Koteswara Rao, Matthias Zeller and Sherri R. Lovelace-Cameron

#### S1. Comment

The construction of metal-organic frameworks (MOFs) with light building blocks has been the subject of intense research during the past few years (Mallick *et al.*, 2011). A suitable metal for construction of lightweight frameworks is magnesium. In the present study, the title compound, [Mg<sub>3</sub>(bdc)<sub>3</sub>(DMF)<sub>4</sub>]<sub>n</sub>, was obtained during part of our investigations into the solvothermal synthesis of lightweight metal organic frameworks. Reaction of magnesium nitrate with terephthalic acid (bdcH<sub>2</sub>) and 1,3-bis(4-pyridyl)propane (tmdpyr) at 373 K (100 °C) in dimethyl formamide (DMF) yielded the title compound as a minor product along with an unidentified white powder. The crystals of the title compound are sensitive towards solvent loss and decompose rapidly once taken out of solution.

The asymmetric unit of the title framework consists of three magnesium cations, and three anionic bdc units, and four coordinated DMF molecules, respectively (Fig. 1). One of the four DMF molecules was refined as disordered over two mutually exclusive positions with an occupancy ratio of 0.923 (4) to 0.077 (4).

The three magnesium cations in the structure form secondary building units (SBUs) that each possesses a chain of three magnesium ions bridged by six bdc linkers and coordinated by four terminal DMF molecules (Fig. 2). There are two types of magnesium coordination environments in the structure. The terminal ions, Mg1 and Mg3, in the SBU exhibit distorted octahedral geometries. Of the six bonds, four are from O atoms of three different bdc linkers (one bdc linker binds with magnesium in a chelating mode) and the other two are from DMF O atoms. The central ion, Mg2, is also distorted octahedrally coordinated, but it binds to six different carboxylate O atoms (four of them are in bidentate mode and two are in chelation mode). O—Mg—O angles vary between 60.35 (7) and 178.54 (9)°, with the unusually small angle of 60.35 (7)° being associated with the bdc linker in chelation mode. The three distorted octahedral trimeric magnesiums together act as a node that is connected with other nodes through the bdc linkers to give rise to a two-dimensional layered 3<sup>6</sup>-network (Fig. 3). The layers in the structure are stacked atop of one another, with terminal DMF molecules that are projecting into the inter-lamellar space (Fig. 4). The structure is isoreticular to previously reported magnesium and bdc based framework compounds, Mg<sub>3</sub>(bdc)<sub>3</sub>(X)<sub>4</sub> [X = DMSO, Rood *et al.*, 2006; DMA, Davies *et al.*, 2007] in which the terminal solvent molecules, DMSO and DMA, project in to the inter-lamellar spaces. Similar layered structures have also been reported with zinc-bdc based frameworks (Edgar *et al.*, 2001; Burrows *et al.*, 2005; Williams *et al.*, 2005; Grzesiak *et al.*, 2006).

#### **S2. Experimental**

The compound was synthesized under solvothermal conditions. In a typical synthesis,  $Mg(NO_3)_2.6H_2O$  (0.129 g, 1.0 mmol) and terepthalic acid (0.169 g, 2.0 mmol) were dissolved in DMF (5.0 ml). Then, 1,3-bis(4-pyridyl)propane (0.101 g, 1.0 mmol) was added to the reaction mixture and stirred for one hour before transferring the mixture into a glass vial. The final mixture was heated to 373 K for 24 h. The vial was then slowly cooled to room temperature yielding colorless plates of the title compound as a minor product along with an unidentified white powder. Crystals are sensitive towards

solvent loss and decompose rapidly once taken out of solution.

#### **S3. Refinement**

Reflections 1 1 0, 0 1 1 and 1 0 2 were partially obstructed by the beam stop and were omitted from the refinement.

One of the DMF molecules was refined as disordered over two mutually exclusive positions. The minor moiety was restrained to have a similar geometry as the major moiety, the overlapping O and N atoms were each constrained to have ADPs identical to that in the major moiety, and the ADPs of the C, N and O atoms of the minor moiety were restrained to be similar to each other. The occupancy ratios for the two moieties refined to 0.923 (4) to 0.077 (4).

Carbon-bound hydrogen atoms were placed in calculated positions with C—H bond distances of 0.95 Å (aromatic H and carbonyl H of DMF) and 0.98 Å (methyl H). Methyl group H atoms were allowed to rotate around the C—C bond to best fit the experimental electron density.  $U_{iso}(H)$  values for all H atoms were constrained to a multiple of  $U_{eq}$  of their respective carrier atom (1.2 times for aromatic and carbonyl H atoms, and 1.5 times for methyl H atoms).



Figure 1

View of the title framework compound with the atom numbering scheme and 50% probability displacement ellipsoids. Symmetry operators: (i) -x + 1, y + 1/2, -z + 1/2; (ii) -x, y + 1/2, -z + 1/2; (iii) x, y - 1, z.



#### Figure 2

View of one trimeric SBU that acts as a node, possessing bridging carboxylates and terminal DMF molecules. For clarity, only the carboxylate groups of bdc linkers are shown and hydrogen atoms are omitted.



## Figure 3

View of the two-dimensional 3<sup>6</sup>-net parallel to the [001] direction. Hydrogen atoms are omitted for clarity.



## Figure 4

View of the arrangement of layers parallel to the [100] direction.

 $Poly[tetrakis(dimethylformamide)tris(\mu_4-terephthalato)trimagnesium]$ 

### Crystal data

$[Mg_{3}(C_{8}H_{4}O_{4})_{3}(C_{3}H_{7}NO)_{4}]$ $M_{r} = 857.65$ Monoclinic, $P2_{1}/c$ Hall symbol: -P 2ybc a = 18.158 (2) Å b = 9.5046 (13) Å c = 24.066 (3) Å $\beta = 100.825$ (2)° V = 4079.6 (10) Å <sup>3</sup> 7 = 4	F(000) = 1792 $D_x = 1.396 \text{ Mg m}^{-3}$ Mo $K\alpha$ radiation, $\lambda = 0.71073 \text{ Å}$ Cell parameters from 4706 reflections $\theta = 2.3-30.2^{\circ}$ $\mu = 0.15 \text{ mm}^{-1}$ T = 100  K Plate, colourless $0.34 \times 0.20 \times 0.05 \text{ mm}$
Data collection Bruker SMART APEX CCD diffractometer Radiation source: fine-focus sealed tube Graphite monochromator $\omega$ scans Absorption correction: multi-scan ( <i>SADABS</i> ; Bruker, 2011) $T_{min} = 0.619, T_{max} = 0.746$	21816 measured reflections 10014 independent reflections 7598 reflections with $I > 2\sigma(I)$ $R_{int} = 0.039$ $\theta_{max} = 28.3^{\circ}, \theta_{min} = 1.1^{\circ}$ $h = -16 \rightarrow 24$ $k = -12 \rightarrow 12$ $l = -32 \rightarrow 27$

Refinement

Refinement on $F^2$	Secondary atom site location: difference Fourier
Least-squares matrix: full	map
$R[F^2 > 2\sigma(F^2)] = 0.066$	Hydrogen site location: inferred from
$wR(F^2) = 0.149$	neighbouring sites
S = 1.12	H-atom parameters constrained
10014 reflections	$w = 1/[\sigma^2(F_o^2) + (0.045P)^2 + 5.8483P]$
574 parameters	where $P = (F_o^2 + 2F_c^2)/3$
33 restraints	$(\Delta/\sigma)_{\rm max} < 0.001$
Primary atom site location: structure-invariant	$\Delta  ho_{ m max} = 0.46 \ { m e} \ { m \AA}^{-3}$
direct methods	$\Delta  ho_{\min} = -0.35 \text{ e} \text{ Å}^{-3}$

#### 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  $(\mathring{A}^2)$ 

	x	У	Ζ	$U_{ m iso}*/U_{ m eq}$	Occ. (<1)
Mg1	0.20949 (5)	0.47092 (9)	0.09756 (4)	0.00978 (18)	
Mg2	0.25057 (4)	0.41016 (9)	0.24603 (4)	0.00810 (17)	
Mg3	0.28787 (5)	0.33064 (9)	0.39299 (4)	0.00983 (18)	
01	0.30953 (10)	0.3705 (2)	0.11070 (8)	0.0152 (4)	
O2	0.33782 (10)	0.3615 (2)	0.20560 (8)	0.0146 (4)	
03	0.67833 (10)	0.0492 (2)	0.20601 (8)	0.0138 (4)	
O4	0.64810 (10)	0.0028 (2)	0.11299 (8)	0.0147 (4)	
05	0.14333 (10)	0.3020 (2)	0.10680 (8)	0.0138 (4)	
O6	0.17971 (10)	0.2685 (2)	0.20005 (8)	0.0132 (4)	
07	-0.16247 (10)	-0.0372 (2)	0.21503 (8)	0.0135 (4)	
08	-0.18736 (9)	-0.0683 (2)	0.12085 (8)	0.0134 (4)	
09	0.26181 (10)	0.6786 (2)	0.12084 (8)	0.0140 (4)	
O10	0.21240 (9)	0.55376 (19)	0.18163 (7)	0.0104 (4)	
011	0.23514 (10)	1.1286 (2)	0.36602 (8)	0.0135 (4)	
012	0.28604 (9)	1.25894 (19)	0.30769 (7)	0.0106 (4)	
013	0.21208 (10)	0.4826 (2)	0.01346 (8)	0.0175 (4)	
O14	0.10924 (10)	0.5856 (2)	0.07525 (8)	0.0169 (4)	
016	0.28667 (10)	0.3291 (2)	0.47647 (8)	0.0160 (4)	
N1	0.26651 (13)	0.6147 (3)	-0.04601 (10)	0.0189 (5)	
N2	-0.01117 (12)	0.6279 (3)	0.08363 (11)	0.0204 (5)	
N4	0.24305 (14)	0.4812 (3)	0.53454 (11)	0.0203 (5)	
C1	0.35166 (14)	0.3411 (3)	0.15737 (12)	0.0128 (5)	
C2	0.42644 (14)	0.2735 (3)	0.15462 (12)	0.0143 (5)	
C3	0.44180 (14)	0.2137 (3)	0.10546 (12)	0.0158 (5)	
H3	0.4056	0.2187	0.0714	0.019*	

C4         0.51035 (14)         0.1461 (3)         0.10881 (11)         0.0152 (5)           H4         0.5203         0.1042         0.0722         0.018*           C5         0.56423 (14)         0.1400 (3)         0.15555 (11)         0.0135 (5)           C6         0.54986 (16)         0.2045 (4)         0.20400 (13)         0.0272 (7)           H6         0.870         0.2041         0.2376         0.033*           C7         0.48118 (16)         0.2702 (4)         0.20368 (13)         0.0126 (5)           C8         0.63647 (13)         0.0582 (3)         0.15837 (11)         0.0116 (5)           C9         0.13477 (13)         0.2544 (3)         0.15667 (11)         0.0112 (5)           C11         0.01302 (14)         0.1778 (3)         0.10717 (11)         0.0148 (5)           H11         0.0251         0.1584         0.0713         0.017*           C12         -0.0394 (14)         0.0702 (3)         0.11633 (11)         0.0148 (5)           H14         -0.0325         0.0579         0.2476         0.024*           C15         0.04437 (15)         0.1445 (3)         0.20874 (11)         0.0188 (6)           H14         -0.0325         0.0579         0.2476					
H4 $0.5203$ $0.1042$ $0.0722$ $0.018*$ C5 $0.56423$ (14) $0.1400$ (3) $0.1556$ (11) $0.0135$ (5)C6 $0.54986$ (16) $0.2045$ (4) $0.20400$ (13) $0.0272$ (7)H6 $0.5870$ $0.2041$ $0.2376$ $0.033*$ C7 $0.48118$ (16) $0.2702$ (4) $0.20368$ (13) $0.0280$ (8)H7 $0.4716$ $0.3132$ $0.2372$ $0.034*$ C8 $0.63647$ (13) $0.0582$ (3) $0.15837$ (11) $0.0116$ (5)C9 $0.13477$ (13) $0.2544$ (3) $0.15466$ (11) $0.0112$ (5)C10 $0.06273$ (13) $0.1758$ (3) $0.15677$ (11) $0.0115$ (5)C11 $0.01302$ (14) $0.1792$ (3) $0.10717$ (11) $0.0144$ (5)H11 $0.0251$ $0.1584$ $0.0713$ $0.017*$ C12 $-0.03934$ (14) $0.0702$ (3) $0.11033$ (11) $0.0148$ (5)H12 $-0.0669$ $0.0430$ $0.0766$ $0.018*$ C13 $-0.07311$ (13) $0.0421$ (3) $0.2175$ (12) $0.0196$ (6)H14 $-0.0352$ $0.0579$ $0.2476$ $0.024*$ C15 $0.0437$ (15) $0.1445$ (3) $0.20711$ (11) $0.0108$ (5)C16 $-0.14698$ (13) $-0.0274$ (3) $0.16669$ (11) $0.0108$ (5)C17 $0.24114$ (13) $0.6691$ (3) $0.16770$ (11) $0.0108$ (5)C18 $0.24572$ (14) $0.7916$ (3) $0.27868$ (11) $0.0112$ (5)C19 $0.2399$ $1.0949$ $0.2359$ $0.017*$ <t< td=""><td>C4</td><td>0.51035 (14)</td><td>0.1461 (3)</td><td>0.10581 (11)</td><td>0.0152 (5)</td></t<>	C4	0.51035 (14)	0.1461 (3)	0.10581 (11)	0.0152 (5)
CS $0.56423 (14)$ $0.1400 (3)$ $0.15565 (11)$ $0.0135 (5)$ C6 $0.54986 (16)$ $0.2045 (4)$ $0.2040 (13)$ $0.0272 (7)$ H6 $0.5870$ $0.2041$ $0.2376$ $0.033*$ C7 $0.48118 (16)$ $0.2702 (4)$ $0.20368 (13)$ $0.0280 (8)$ H7 $0.4716$ $0.3132$ $0.2372$ $0.034*$ C8 $0.63647 (13)$ $0.0582 (3)$ $0.15847 (11)$ $0.0116 (5)$ C9 $0.13477 (13)$ $0.2544 (3)$ $0.15446 (11)$ $0.0112 (5)$ C10 $0.06273 (13)$ $0.1758 (3)$ $0.1567 (11)$ $0.0115 (5)$ C11 $0.01302 (14)$ $0.1379 (3)$ $0.10717 (11)$ $0.0114 (5)$ H11 $0.0251$ $0.1584$ $0.0713$ $0.017* (5)$ C12 $-0.05394 (14)$ $0.0702 (3)$ $0.16273 (11)$ $0.0118 (5)$ H12 $-0.0669$ $0.0430$ $0.0766$ $0.018*$ C13 $-0.07311 (13)$ $0.0421 (3)$ $0.16273 (11)$ $0.0119 (5)$ C14 $-0.02315 (15)$ $0.0784 (3)$ $0.2176$ $0.024*$ C15 $0.04437 (15)$ $0.1445 (3)$ $0.20874 (11)$ $0.0183 (6)$ H15 $0.0781$ $0.6691 (3)$ $0.16770 (11)$ $0.0108 (5)$ C17 $0.24114 (13)$ $0.6691 (3)$ $0.16770 (11)$ $0.0108 (5)$ C18 $0.24572 (14)$ $0.7914 (3)$ $0.22864 (12)$ $0.0144 (5)$ H20 $0.2299$ $1.0949$ $0.2359$ $0.017*$ C21 $0.2505 (14)$ $1.0917 (13) (2.2864 (12))$ $0.01$	H4	0.5203	0.1042	0.0722	0.018*
C6 $0.54986$ (16) $0.2045$ (4) $0.20400$ (13) $0.0272$ (7)H6 $0.8870$ $0.2041$ $0.2376$ $0.033*$ C7 $0.48118$ (16) $0.2702$ (4) $0.20368$ (13) $0.0280$ (8)H7 $0.4716$ $0.3132$ $0.2372$ $0.034*$ C8 $0.63647$ (13) $0.0582$ (3) $0.15837$ (11) $0.0116$ (5)C9 $0.13477$ (13) $0.2544$ (3) $0.15466$ (11) $0.0112$ (5)C10 $0.06273$ (13) $0.1758$ (3) $0.1667$ (11) $0.0115$ (5)C11 $0.01302$ (14) $0.1379$ (3) $0.10717$ (11) $0.0141$ (5)H11 $0.0251$ $0.1584$ $0.0713$ $0.017*$ C12 $-0.0394$ (14) $0.0702$ (3) $0.16273$ (11) $0.0119$ (5)C14 $-0.02315$ (15) $0.0784$ (3) $0.21175$ (12) $0.0196$ (6)H14 $-0.0352$ $0.0579$ $0.2476$ $0.024*$ C15 $0.04437$ (15) $0.1445$ (3) $0.20874$ (11) $0.0110$ (5)C17 $0.24114$ (13) $0.6691$ (3) $0.16770$ (11) $0.0108$ (5)C18 $0.24572$ (14) $0.7919$ (3) $0.20711$ (11) $0.0102$ (5)C19 $0.29401$ (14) $0.9017$ $0.1750$ $0.017*$ C20 $0.29669$ (14) $1.0191$ (3) $0.22854$ (12) $0.0144$ (5)H19 $0.3251$ $0.9017$ $0.1750$ $0.017*$ C21 $0.25055$ (14) $1.0230$ (3) $0.27868$ (11) $0.0119$ (5)C21 $0.25055$ (14) $1.0230$ (3) $0.27868$ (11) <t< td=""><td>C5</td><td>0.56423 (14)</td><td>0.1400 (3)</td><td>0.15565 (11)</td><td>0.0135 (5)</td></t<>	C5	0.56423 (14)	0.1400 (3)	0.15565 (11)	0.0135 (5)
H6 $0.5870$ $0.2041$ $0.2376$ $0.033^*$ C7 $0.48118(16)$ $0.2702(4)$ $0.20368(13)$ $0.02380(8)$ H7 $0.4716$ $0.3132$ $0.2372$ $0.034^*$ C8 $0.65647(13)$ $0.0582(3)$ $0.15837(11)$ $0.0116(5)$ C9 $0.13477(13)$ $0.2544(3)$ $0.15446(11)$ $0.0112(5)$ C10 $0.06273(13)$ $0.1758(3)$ $0.1667(11)$ $0.0141(5)$ C11 $0.01302(14)$ $0.1379(3)$ $0.10717(11)$ $0.0141(5)$ H11 $0.0251$ $0.1584$ $0.0713$ $0.017^*$ C12 $-0.05394(14)$ $0.0702(3)$ $0.11033(11)$ $0.0148(5)$ H12 $-0.06869$ $0.0430$ $0.0766$ $0.0118(5)$ C14 $-0.02315(15)$ $0.0784(3)$ $0.21175(12)$ $0.0196(6)$ H14 $-0.0352$ $0.0579$ $0.2476$ $0.024^*$ C15 $0.04437(15)$ $0.1445(3)$ $0.20874(11)$ $0.0118(5)$ C16 $-0.14698(13)$ $-0.0274(3)$ $0.16669(11)$ $0.0110(5)$ C17 $0.24114(13)$ $0.6691(3)$ $0.16770(11)$ $0.0108(5)$ C18 $0.24572(14)$ $0.7919(3)$ $0.22761(11)$ $0.0122(5)$ C19 $0.29469(14)$ $1.0917$ $0.1750$ $0.017^*$ C20 $0.29669(14)$ $1.0917$ $0.1750$ $0.017^*$ C21 $0.25055(14)$ $1.0230(3)$ $0.27864(12)$ $0.0144(5)$ H29 $0.3299$ $1.0949$ $0.2359$ $0.017^*$ C22 $0.20191(14)$	C6	0.54986 (16)	0.2045 (4)	0.20400 (13)	0.0272 (7)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	H6	0.5870	0.2041	0.2376	0.033*
H7 $0.4716$ $0.3132$ $0.2372$ $0.034^*$ C8 $0.63647$ (13) $0.0582$ (3) $0.15837$ (11) $0.0116$ (5)C9 $0.13477$ (13) $0.2544$ (3) $0.15847$ (11) $0.0112$ (5)C10 $0.06273$ (13) $0.1758$ (3) $0.15667$ (11) $0.0115$ (5)C11 $0.01302$ (14) $0.179$ (3) $0.10717$ (11) $0.0141$ (5)H11 $0.0251$ $0.1584$ $0.0713$ $0.017^*$ C12 $-0.05394$ (14) $0.0702$ (3) $0.11033$ (11) $0.0148$ (5)H12 $-0.0869$ $0.430$ $0.0766$ $0.018^*$ C13 $-0.07311$ (13) $0.0421$ (3) $0.16273$ (11) $0.0119$ (5)C14 $-0.02315$ (15) $0.0784$ (3) $0.21175$ (12) $0.0196$ (6)H14 $-0.0352$ $0.0579$ $0.2476$ $0.024^*$ C15 $0.04437$ (15) $0.1445$ (3) $0.20874$ (11) $0.0108$ (5)C17 $0.24114$ (13) $0.6691$ (3) $0.16770$ (11) $0.0108$ (5)C19 $0.29401$ (14) $0.9041$ (3) $0.20265$ (12) $0.0144$ (5)H19 $0.3251$ $0.9017$ $0.1750$ $0.017^*$ C20 $0.29669$ (14) $1.0191$ (3) $0.23864$ (12) $0.0140$ (5)H22 $0.1996$ (15) $0.7962$ (3) $0.24713$ (12) $0.0146$ (5)H23 $0.1666$ $0.7202$ $0.2500$ $0.018^*$ C24 $0.25574$ (13) $1.1429$ (3) $0.31948$ (11) $0.0112$ (5)H24 $0.25574$ (13) $1.1429$ (3) $0.31948$ (11) <td>C7</td> <td>0.48118 (16)</td> <td>0.2702 (4)</td> <td>0.20368 (13)</td> <td>0.0280 (8)</td>	C7	0.48118 (16)	0.2702 (4)	0.20368 (13)	0.0280 (8)
C8 $0.63647(13)$ $0.0582(3)$ $0.15837(11)$ $0.0116(5)$ C9 $0.13477(13)$ $0.2544(3)$ $0.15446(11)$ $0.0112(5)$ C10 $0.06273(13)$ $0.1758(3)$ $0.15667(11)$ $0.0115(5)$ C11 $0.01302(14)$ $0.1379(3)$ $0.10717(11)$ $0.0141(5)$ M11 $0.0251$ $0.1584$ $0.0713$ $0.017*$ C12 $-0.05394(14)$ $0.0702(3)$ $0.11033(11)$ $0.0148(5)$ H12 $-0.0869$ $0.0430$ $0.0766$ $0.0118$ C13 $-0.07311(13)$ $0.0421(3)$ $0.16273(11)$ $0.0119(5)$ C14 $-0.0352$ $0.0579$ $0.2476$ $0.024*$ C15 $0.04437(15)$ $0.1445(3)$ $0.20874(11)$ $0.0118(6)$ H15 $0.0781$ $0.1684$ $0.2426$ $0.022*$ C16 $-0.14698(13)$ $-0.0274(3)$ $0.16669(11)$ $0.0110(5)$ C17 $0.24114(13)$ $0.6691(3)$ $0.16770(11)$ $0.0108(5)$ C18 $0.24572(14)$ $0.7919(3)$ $0.20711(11)$ $0.0122(5)$ C19 $0.29401(14)$ $0.9041(3)$ $0.20265(12)$ $0.0144(5)$ H19 $0.3251$ $0.9017$ $0.1750$ $0.017*$ C20 $0.29669(14)$ $1.0191(3)$ $0.23864(12)$ $0.0146(5)$ H22 $0.1704$ $0.9144$ $0.3103$ $0.017*$ C21 $0.25055(14)$ $1.0230(3)$ $0.2768(11)$ $0.0143(5)$ H22 $0.1704$ $0.9144$ $0.3103$ $0.017*$ C22 $0.20467(15)$ $0.5$	H7	0.4716	0.3132	0.2372	0.034*
C9 $0.13477 (13)$ $0.2544 (3)$ $0.15446 (11)$ $0.0112 (5)$ C10 $0.06273 (13)$ $0.1758 (3)$ $0.15667 (11)$ $0.0115 (5)$ C11 $0.01302 (14)$ $0.1379 (3)$ $0.10717 (11)$ $0.0141 (5)$ C12 $-0.05394 (14)$ $0.0702 (3)$ $0.11033 (11)$ $0.0148 (5)$ H12 $-0.0669$ $0.0430$ $0.0766$ $0.018*$ C13 $-0.07311 (13)$ $0.0421 (3)$ $0.16273 (11)$ $0.0196 (6)$ H14 $-0.03215 (15)$ $0.0784 (3)$ $0.21175 (12)$ $0.0196 (6)$ H14 $-0.03252$ $0.0579$ $0.2476$ $0.0224*$ C15 $0.04437 (15)$ $0.1445 (3)$ $0.20874 (11)$ $0.0183 (6)$ H15 $0.0781$ $0.1684$ $0.2426$ $0.022*$ C16 $-0.14698 (13)$ $-0.0274 (3)$ $0.16669 (11)$ $0.0108 (5)$ C17 $0.24114 (13)$ $0.6691 (3)$ $0.16770 (11)$ $0.0108 (5)$ C18 $0.2457 (14)$ $0.7919 (3)$ $0.20711 (11)$ $0.0122 (5)$ C19 $0.29401 (14)$ $0.9017$ $0.1750$ $0.017*$ C21 $0.25055 (14)$ $1.0230 (3)$ $0.27868 (11)$ $0.0104 (5)$ H20 $0.3299$ $1.0949$ $0.2359$ $0.017*$ C21 $0.25055 (14)$ $1.0230 (3)$ $0.27868 (11)$ $0.0146 (5)$ H22 $0.1704$ $0.9144$ $0.3103$ $0.017*$ C23 $0.19968 (15)$ $0.7962 (3)$ $0.24713 (12)$ $0.0146 (5)$ H23 $0.1666$ $0.7202$ $0.2500$ $0$	C8	0.63647 (13)	0.0582 (3)	0.15837 (11)	0.0116 (5)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C9	0.13477 (13)	0.2544 (3)	0.15446 (11)	0.0112 (5)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C10	0.06273 (13)	0.1758 (3)	0.15667 (11)	0.0115 (5)
H11 $0.0251$ $0.1584$ $0.0713$ $0.017^*$ C12 $-0.05394$ (14) $0.0702$ (3) $0.11033$ (11) $0.0148$ (5)H12 $-0.0869$ $0.0430$ $0.0766$ $0.018^*$ C13 $-0.07311$ (13) $0.0421$ (3) $0.16273$ (11) $0.0119$ (5)C14 $-0.02315$ (15) $0.0784$ (3) $0.21175$ (12) $0.0196$ (6)H14 $-0.0352$ $0.0579$ $0.2476$ $0.024^*$ C15 $0.04437$ (15) $0.1445$ (3) $0.20874$ (11) $0.0183$ (6)H15 $0.0781$ $0.1684$ $0.2426$ $0.022^*$ C16 $-0.14698$ (13) $-0.0274$ (3) $0.16669$ (11) $0.0108$ (5)C17 $0.24114$ (13) $0.6691$ (3) $0.16770$ (11) $0.0108$ (5)C18 $0.24572$ (14) $0.7919$ (3) $0.20711$ (11) $0.0122$ (5)C19 $0.29401$ (14) $0.9041$ (3) $0.20265$ (12) $0.017*$ C20 $0.29669$ (14) $1.0191$ (3) $0.23864$ (12) $0.0140$ (5)H20 $0.3299$ $1.0949$ $0.2359$ $0.017*$ C21 $0.25055$ (14) $1.0230$ (3) $0.27868$ (11) $0.0143$ (5)H22 $0.1704$ $0.9144$ $0.3103$ $0.017*$ C23 $0.19968$ (15) $0.7962$ (3) $0.24713$ (12) $0.0146$ (5)H23 $0.1666$ $0.7202$ $0.2500$ $0.018*$ C24 $0.25574$ (13) $1.1429$ (3) $0.31948$ (11) $0.0112$ (5)C25 $0.26467$ (15) $0.5073$ (3) $-0.01164$ (11) $0.0149$ (5	C11	0.01302 (14)	0.1379 (3)	0.10717 (11)	0.0141 (5)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	H11	0.0251	0.1584	0.0713	0.017*
H12 $-0.0869$ $0.0430$ $0.0766$ $0.018^*$ C13 $-0.07311(13)$ $0.0421(3)$ $0.16273(11)$ $0.0119(5)$ C14 $-0.02315(15)$ $0.0784(3)$ $0.21175(12)$ $0.0196(6)$ H14 $-0.0352$ $0.0579$ $0.2476$ $0.024^*$ C15 $0.04437(15)$ $0.1445(3)$ $0.20874(11)$ $0.0183(6)$ H15 $0.0781$ $0.1684$ $0.2426$ $0.022^*$ C16 $-0.14698(13)$ $-0.0274(3)$ $0.16669(11)$ $0.0110(5)$ C17 $0.24114(13)$ $0.6691(3)$ $0.16770(11)$ $0.0108(5)$ C18 $0.24572(14)$ $0.7919(3)$ $0.20711(11)$ $0.0122(5)$ C19 $0.29401(14)$ $0.9041(3)$ $0.20265(12)$ $0.0144(5)$ H19 $0.3251$ $0.9017$ $0.1750$ $0.017^*$ C20 $0.29669(14)$ $1.0191(3)$ $0.23864(12)$ $0.0146(5)$ H20 $0.3299$ $1.0949$ $0.2359$ $0.017^*$ C21 $0.25055(14)$ $1.0230(3)$ $0.27868(11)$ $0.0119(5)$ C22 $0.20191(14)$ $0.9144$ $0.3103$ $0.017^*$ C23 $0.19968(15)$ $0.7962(3)$ $0.24713(12)$ $0.0146(5)$ H23 $0.1666$ $0.7202$ $0.2500$ $0.018^*$ C24 $0.25574(13)$ $1.1429(3)$ $0.31948(11)$ $0.0112(5)$ C25 $0.26467(15)$ $0.5073(3)$ $-0.0164(411)$ $0.0149(5)$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.047^*$ C26 $0.20341(19)$	C12	-0.05394 (14)	0.0702 (3)	0.11033 (11)	0.0148 (5)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	H12	-0.0869	0.0430	0.0766	0.018*
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C13	-0.07311 (13)	0.0421 (3)	0.16273 (11)	0.0119 (5)
H14 $-0.0352$ $0.0579$ $0.2476$ $0.024*$ C15 $0.04437$ (15) $0.1445$ (3) $0.20874$ (11) $0.0183$ (6)H15 $0.0781$ $0.1684$ $0.2426$ $0.022*$ C16 $-0.14698$ (13) $-0.0274$ (3) $0.16669$ (11) $0.0110$ (5)C17 $0.24114$ (13) $0.6691$ (3) $0.16770$ (11) $0.0108$ (5)C18 $0.24572$ (14) $0.7919$ (3) $0.20711$ (11) $0.0122$ (5)C19 $0.29401$ (14) $0.9041$ (3) $0.20265$ (12) $0.0144$ (5)H19 $0.3251$ $0.9017$ $0.1750$ $0.017*$ C20 $0.29669$ (14) $1.0191$ (3) $0.23864$ (12) $0.0140$ (5)H20 $0.3299$ $1.0949$ $0.2359$ $0.017*$ C21 $0.25055$ (14) $1.0230$ (3) $0.27868$ (11) $0.0119$ (5)C22 $0.20191$ (14) $0.9115$ (3) $0.28294$ (11) $0.0143$ (5)H22 $0.1704$ $0.9144$ $0.3103$ $0.017*$ C23 $0.19968$ (15) $0.7962$ (3) $0.24713$ (12) $0.0146$ (5)H23 $0.1666$ $0.7202$ $0.2500$ $0.018*$ C24 $0.25574$ (13) $1.1429$ (3) $0.31948$ (11) $0.0112$ (5)C25 $0.26467$ (15) $0.5073$ (3) $-0.01164$ (11) $0.0149$ (5)H26B $0.1740$ $0.7090$ $-0.0597$ (15) $0.0313$ (8)H26B $0.1740$ $0.7090$ $-0.0525$ $0.047*$ H26B $0.1740$ $0.7090$ $-0.0553$ $0.039*$ H27A<	C14	-0.02315 (15)	0.0784 (3)	0.21175 (12)	0.0196 (6)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	H14	-0.0352	0.0579	0.2476	0.024*
H15 $0.0781$ $0.1684$ $0.2426$ $0.022*$ C16 $-0.14698 (13)$ $-0.0274 (3)$ $0.16669 (11)$ $0.0110 (5)$ C17 $0.24114 (13)$ $0.6691 (3)$ $0.16770 (11)$ $0.0108 (5)$ C18 $0.24572 (14)$ $0.7919 (3)$ $0.20711 (11)$ $0.0122 (5)$ C19 $0.29401 (14)$ $0.9041 (3)$ $0.20265 (12)$ $0.0144 (5)$ H19 $0.3251$ $0.9017$ $0.1750$ $0.017*$ C20 $0.29669 (14)$ $1.0191 (3)$ $0.23864 (12)$ $0.0140 (5)$ H20 $0.3299$ $1.0949$ $0.2359$ $0.017*$ C21 $0.25055 (14)$ $1.0230 (3)$ $0.27868 (11)$ $0.0119 (5)$ C22 $0.20191 (14)$ $0.9115 (3)$ $0.28294 (11)$ $0.0143 (5)$ H22 $0.1704$ $0.9144$ $0.3103$ $0.017*$ C23 $0.19968 (15)$ $0.7962 (3)$ $0.24713 (12)$ $0.0146 (5)$ H23 $0.1666$ $0.7202$ $0.2500$ $0.018*$ C24 $0.25574 (13)$ $1.1429 (3)$ $0.31948 (11)$ $0.0112 (5)$ C25 $0.26467 (15)$ $0.5073 (3)$ $-0.01164 (11)$ $0.0149 (5)$ H26A $0.2223$ $0.8077$ $-0.0625$ $0.047*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.047*$ H26B $0.1740$ $0.7344$ $-0.0653$ $0.039*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039*$ H27B $0.3639$ $0.556$	C15	0.04437 (15)	0.1445 (3)	0.20874 (11)	0.0183 (6)
C16 $-0.14698(13)$ $-0.0274(3)$ $0.16669(11)$ $0.0110(5)$ C17 $0.24114(13)$ $0.6691(3)$ $0.16770(11)$ $0.0108(5)$ C18 $0.24572(14)$ $0.7919(3)$ $0.20711(11)$ $0.0122(5)$ C19 $0.29401(14)$ $0.9041(3)$ $0.20265(12)$ $0.0144(5)$ H19 $0.3251$ $0.9017$ $0.1750$ $0.017*$ C20 $0.29669(14)$ $1.0191(3)$ $0.23864(12)$ $0.0140(5)$ H20 $0.3299$ $1.0949$ $0.2359$ $0.017*$ C21 $0.25055(14)$ $1.0230(3)$ $0.27868(11)$ $0.0119(5)$ C22 $0.20191(14)$ $0.9115(3)$ $0.28294(11)$ $0.0146(5)$ H22 $0.1704$ $0.9144$ $0.3103$ $0.017*$ C23 $0.19968(15)$ $0.7962(3)$ $0.24713(12)$ $0.0146(5)$ H23 $0.1666$ $0.7202$ $0.2500$ $0.018*$ C24 $0.25574(13)$ $1.1429(3)$ $0.31948(11)$ $0.0112(5)$ C25 $0.26467(15)$ $0.5073(3)$ $-0.01164(11)$ $0.0149(5)$ H25 $0.3062$ $0.4447$ $-0.0056$ $0.018*$ C26 $0.20341(19)$ $0.7121(4)$ $-0.05927(15)$ $0.0313(8)$ H26A $0.2223$ $0.8077$ $-0.0625$ $0.047*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.047*$ H26C $0.1716$ $0.6848$ $-0.0952$ $0.047*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.39*$ H27B $0.3639$ $0.5785(3)$ $0.10208(12$	H15	0.0781	0.1684	0.2426	0.022*
C17 $0.24114(13)$ $0.6691(3)$ $0.16770(11)$ $0.0108(5)$ C18 $0.24572(14)$ $0.7919(3)$ $0.20711(11)$ $0.0122(5)$ C19 $0.29401(14)$ $0.9041(3)$ $0.20265(12)$ $0.0144(5)$ H19 $0.3251$ $0.9017$ $0.1750$ $0.017^*$ C20 $0.29669(14)$ $1.0191(3)$ $0.23864(12)$ $0.0140(5)$ H20 $0.3299$ $1.0949$ $0.2359$ $0.017^*$ C21 $0.25055(14)$ $1.0230(3)$ $0.27868(11)$ $0.0143(5)$ H22 $0.1704$ $0.9144$ $0.3103$ $0.017^*$ C23 $0.19968(15)$ $0.7962(3)$ $0.24713(12)$ $0.0146(5)$ H23 $0.1666$ $0.7202$ $0.2500$ $0.018^*$ C24 $0.25574(13)$ $1.1429(3)$ $0.31948(11)$ $0.0112(5)$ C25 $0.26467(15)$ $0.5073(3)$ $-0.01164(11)$ $0.0149(5)$ H25 $0.3062$ $0.4447$ $-0.0056$ $0.018^*$ C26 $0.20341(19)$ $0.7121(4)$ $-0.05927(15)$ $0.0313(8)$ H26A $0.2223$ $0.8077$ $-0.0625$ $0.047^*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.047^*$ H26B $0.1740$ $0.7234$ $-0.0653$ $0.039^*$ H27A $0.3083$ $0.6350$ $-0.1173$ $0.039^*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039^*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039^*$ H27B $0.3639$ $0.5785(3)$ $0.10208(12)$ $0.0173$	C16	-0.14698 (13)	-0.0274 (3)	0.16669 (11)	0.0110 (5)
C18 $0.24572 (14)$ $0.7919 (3)$ $0.20711 (11)$ $0.0122 (5)$ C19 $0.29401 (14)$ $0.9041 (3)$ $0.20265 (12)$ $0.0144 (5)$ H19 $0.3251$ $0.9017$ $0.1750$ $0.017^*$ C20 $0.29669 (14)$ $1.0191 (3)$ $0.23864 (12)$ $0.0140 (5)$ H20 $0.3299$ $1.0949$ $0.2359$ $0.017^*$ C21 $0.25055 (14)$ $1.0230 (3)$ $0.27868 (11)$ $0.0143 (5)$ H22 $0.20191 (14)$ $0.9115 (3)$ $0.28294 (11)$ $0.0143 (5)$ H22 $0.1704$ $0.9144$ $0.3103$ $0.017^*$ C23 $0.19968 (15)$ $0.7962 (3)$ $0.24713 (12)$ $0.0146 (5)$ H23 $0.1666$ $0.7202$ $0.2500$ $0.018^*$ C24 $0.25574 (13)$ $1.1429 (3)$ $0.31948 (11)$ $0.0112 (5)$ C25 $0.26467 (15)$ $0.5073 (3)$ $-0.01164 (11)$ $0.0149 (5)$ H25 $0.3062$ $0.4447$ $-0.0056$ $0.018^*$ C26 $0.20341 (19)$ $0.7121 (4)$ $-0.05927 (15)$ $0.0313 (8)$ H26A $0.2223$ $0.8077$ $-0.0625$ $0.047^*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.047^*$ H26B $0.1740$ $0.7090$ $-0.0565 (13)$ $0.0258 (7)$ H27A $0.3083$ $0.6350$ $-0.1173$ $0.039^*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039^*$ H27B $0.3639$ $0.5578 (3)$ $0.10208 (12)$ $0.0173 (6)$ H28 $0.0672$ <td>C17</td> <td>0.24114 (13)</td> <td>0.6691 (3)</td> <td>0.16770 (11)</td> <td>0.0108 (5)</td>	C17	0.24114 (13)	0.6691 (3)	0.16770 (11)	0.0108 (5)
C19 $0.29401(14)$ $0.9041(3)$ $0.20265(12)$ $0.0144(5)$ H19 $0.3251$ $0.9017$ $0.1750$ $0.017^*$ C20 $0.29669(14)$ $1.0191(3)$ $0.23864(12)$ $0.0140(5)$ H20 $0.3299$ $1.0949$ $0.2359$ $0.017^*$ C21 $0.25055(14)$ $1.0230(3)$ $0.27868(11)$ $0.0143(5)$ H22 $0.20191(14)$ $0.9115(3)$ $0.28294(11)$ $0.0143(5)$ H22 $0.1704$ $0.9144$ $0.3103$ $0.017^*$ C23 $0.19968(15)$ $0.7962(3)$ $0.24713(12)$ $0.0146(5)$ H23 $0.1666$ $0.7202$ $0.2500$ $0.018^*$ C24 $0.25574(13)$ $1.1429(3)$ $0.31948(11)$ $0.0112(5)$ C25 $0.26467(15)$ $0.5073(3)$ $-0.01164(11)$ $0.0149(5)$ H25 $0.3062$ $0.4447$ $-0.0056$ $0.018^*$ C26 $0.20341(19)$ $0.7121(4)$ $-0.05927(15)$ $0.0313(8)$ H26A $0.2223$ $0.8077$ $-0.0625$ $0.047^*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.477^*$ H26C $0.1716$ $0.6848$ $-0.0952$ $0.047^*$ H27A $0.3083$ $0.6350$ $-0.1173$ $0.039^*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039^*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039^*$ H27B $0.3634$ $0.7234$ $-0.0653$ $0.039^*$ H27B $0.3621(19)$ $0.5349$ $0.1382$ $0.021^*$ <	C18	0.24572 (14)	0.7919 (3)	0.20711 (11)	0.0122 (5)
H19 $0.3251$ $0.9017$ $0.1750$ $0.017^*$ C20 $0.29669(14)$ $1.0191(3)$ $0.23864(12)$ $0.0140(5)$ H20 $0.3299$ $1.0949$ $0.2359$ $0.017^*$ C21 $0.25055(14)$ $1.0230(3)$ $0.27868(11)$ $0.0119(5)$ C22 $0.20191(14)$ $0.9115(3)$ $0.28294(11)$ $0.0143(5)$ H22 $0.1704$ $0.9144$ $0.3103$ $0.017^*$ C23 $0.19968(15)$ $0.7962(3)$ $0.24713(12)$ $0.0146(5)$ H23 $0.1666$ $0.7202$ $0.2500$ $0.018^*$ C24 $0.25574(13)$ $1.1429(3)$ $0.31948(11)$ $0.0112(5)$ C25 $0.26467(15)$ $0.5073(3)$ $-0.01164(11)$ $0.0149(5)$ H25 $0.3062$ $0.4447$ $-0.0056$ $0.018^*$ C26 $0.20341(19)$ $0.7121(4)$ $-0.05927(15)$ $0.0313(8)$ H26A $0.2223$ $0.8077$ $-0.0625$ $0.047^*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.047^*$ H26C $0.1716$ $0.6848$ $-0.0952$ $0.047^*$ H27A $0.3083$ $0.6350$ $-0.1173$ $0.039^*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039^*$ H27C $0.3534$ $0.7234$ $-0.0653$ $0.039^*$ C28 $0.05722(14)$ $0.5785(3)$ $0.10208(12)$ $0.0173(6)$ H28 $0.0672$ $0.5349$ $0.1382$ $0.021^*$ C29 $-0.03021(19)$ $0.6868$ $0.0092$ $0.058^*$ <t< td=""><td>C19</td><td>0.29401 (14)</td><td>0.9041 (3)</td><td>0.20265 (12)</td><td>0.0144 (5)</td></t<>	C19	0.29401 (14)	0.9041 (3)	0.20265 (12)	0.0144 (5)
C20 $0.29669(14)$ $1.0191(3)$ $0.23864(12)$ $0.0140(5)$ H20 $0.3299$ $1.0949$ $0.2359$ $0.017*$ C21 $0.25055(14)$ $1.0230(3)$ $0.27868(11)$ $0.0119(5)$ C22 $0.20191(14)$ $0.9115(3)$ $0.28294(11)$ $0.0143(5)$ H22 $0.1704$ $0.9144$ $0.3103$ $0.017*$ C23 $0.19968(15)$ $0.7962(3)$ $0.24713(12)$ $0.0146(5)$ H23 $0.1666$ $0.7202$ $0.2500$ $0.018*$ C24 $0.25574(13)$ $1.1429(3)$ $0.31948(11)$ $0.0112(5)$ C25 $0.26467(15)$ $0.5073(3)$ $-0.01164(11)$ $0.0149(5)$ H25 $0.3062$ $0.4447$ $-0.0056$ $0.018*$ C26 $0.20341(19)$ $0.7121(4)$ $-0.05927(15)$ $0.0313(8)$ H26A $0.2223$ $0.8077$ $-0.0625$ $0.047*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.47*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.047*$ H27A $0.3083$ $0.6350$ $-0.1173$ $0.039*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039*$ H27B $0.3634$ $0.7234$ $-0.0653$ $0.039*$ H27B $0.3621(19)$ $0.6338(5)$ $0.02858(15)$ $0.0386(9)$ H28 $0.0672$ $0.5349$ $0.1382$ $0.021*$ C29 $-0.03021(19)$ $0.6938(5)$ $0.02858(15)$ $0.058*$ H2	H19	0.3251	0.9017	0.1750	0.017*
H20 $0.3299$ $1.0949$ $0.2359$ $0.017^*$ C21 $0.25055(14)$ $1.0230(3)$ $0.27868(11)$ $0.0119(5)$ C22 $0.20191(14)$ $0.9115(3)$ $0.28294(11)$ $0.0143(5)$ H22 $0.1704$ $0.9144$ $0.3103$ $0.017^*$ C23 $0.19968(15)$ $0.7962(3)$ $0.24713(12)$ $0.0146(5)$ H23 $0.1666$ $0.7202$ $0.2500$ $0.018^*$ C24 $0.25574(13)$ $1.1429(3)$ $0.31948(11)$ $0.0112(5)$ C25 $0.26467(15)$ $0.5073(3)$ $-0.01164(11)$ $0.0149(5)$ H25 $0.3062$ $0.4447$ $-0.0056$ $0.018^*$ C26 $0.20341(19)$ $0.7121(4)$ $-0.05927(15)$ $0.0313(8)$ H26A $0.2223$ $0.8077$ $-0.0625$ $0.047^*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.047^*$ H26C $0.1716$ $0.6848$ $-0.0952$ $0.047^*$ C27 $0.32811(18)$ $0.6350$ $-0.1173$ $0.039^*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039^*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039^*$ H27C $0.3534$ $0.7234$ $-0.0653$ $0.039^*$ C28 $0.05722(14)$ $0.5785(3)$ $0.10208(12)$ $0.0173(6)$ H28 $0.0672$ $0.5349$ $0.1382$ $0.021^*$ C29 $-0.03021(19)$ $0.6938(5)$ $0.02858(15)$ $0.0386(9)$ H29B $0.0125$ $0.68688$ $0.0092$ $0.058^*$ <td>C20</td> <td>0.29669 (14)</td> <td>1.0191 (3)</td> <td>0.23864 (12)</td> <td>0.0140 (5)</td>	C20	0.29669 (14)	1.0191 (3)	0.23864 (12)	0.0140 (5)
C21 $0.25055(14)$ $1.0230(3)$ $0.27868(11)$ $0.0119(5)$ C22 $0.20191(14)$ $0.9115(3)$ $0.28294(11)$ $0.0143(5)$ H22 $0.1704$ $0.9144$ $0.3103$ $0.017*$ C23 $0.19968(15)$ $0.7962(3)$ $0.24713(12)$ $0.0146(5)$ H23 $0.1666$ $0.7202$ $0.2500$ $0.018*$ C24 $0.25574(13)$ $1.1429(3)$ $0.31948(11)$ $0.0112(5)$ C25 $0.26467(15)$ $0.5073(3)$ $-0.01164(11)$ $0.0149(5)$ H25 $0.3062$ $0.4447$ $-0.0056$ $0.018*$ C26 $0.20341(19)$ $0.7121(4)$ $-0.05927(15)$ $0.0313(8)$ H26A $0.2223$ $0.8077$ $-0.0625$ $0.047*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.047*$ H26C $0.1716$ $0.6848$ $-0.0952$ $0.047*$ H27A $0.3083$ $0.6350$ $-0.1173$ $0.039*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039*$ H27B $0.3634$ $0.7234$ $-0.0653$ $0.039*$ C28 $0.05722(14)$ $0.5785(3)$ $0.10208(12)$ $0.0173(6)$ H28 $0.0672$ $0.5349$ $0.1382$ $0.021*$ C29 $-0.03021(19)$ $0.6460$ $0.0061$ $0.058*$ H29B $0.0125$ $0.6868$ $0.0092$ $0.058*$	H20	0.3299	1.0949	0.2359	0.017*
C22 $0.20191(14)$ $0.9115(3)$ $0.28294(11)$ $0.0143(5)$ H22 $0.1704$ $0.9144$ $0.3103$ $0.017^*$ C23 $0.19968(15)$ $0.7962(3)$ $0.24713(12)$ $0.0146(5)$ H23 $0.1666$ $0.7202$ $0.2500$ $0.018^*$ C24 $0.25574(13)$ $1.1429(3)$ $0.31948(11)$ $0.0112(5)$ C25 $0.26467(15)$ $0.5073(3)$ $-0.01164(11)$ $0.0149(5)$ H25 $0.3062$ $0.4447$ $-0.0056$ $0.018^*$ C26 $0.20341(19)$ $0.7121(4)$ $-0.05927(15)$ $0.0313(8)$ H26A $0.2223$ $0.8077$ $-0.0625$ $0.047^*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.047^*$ H26C $0.1716$ $0.6848$ $-0.0952$ $0.047^*$ H27A $0.3083$ $0.6350$ $-0.1173$ $0.039^*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039^*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039^*$ C28 $0.05722(14)$ $0.5785(3)$ $0.10208(12)$ $0.0173(6)$ H28 $0.0672$ $0.5349$ $0.1382$ $0.021^*$ C29 $-0.03021(19)$ $0.6460$ $0.0061$ $0.058^*$ H29B $0.0125$ $0.6868$ $0.0092$ $0.58^*$ H29B $0.0125$ $0.6868$ $0.0092$ $0.058^*$	C21	0.25055 (14)	1.0230 (3)	0.27868 (11)	0.0119 (5)
H22 $0.1704$ $0.9144$ $0.3103$ $0.017^*$ C23 $0.19968 (15)$ $0.7962 (3)$ $0.24713 (12)$ $0.0146 (5)$ H23 $0.1666$ $0.7202$ $0.2500$ $0.018^*$ C24 $0.25574 (13)$ $1.1429 (3)$ $0.31948 (11)$ $0.0112 (5)$ C25 $0.26467 (15)$ $0.5073 (3)$ $-0.01164 (11)$ $0.0149 (5)$ H25 $0.3062$ $0.4447$ $-0.0056$ $0.018^*$ C26 $0.20341 (19)$ $0.7121 (4)$ $-0.05927 (15)$ $0.0313 (8)$ H26A $0.2223$ $0.8077$ $-0.0625$ $0.047^*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.047^*$ H26C $0.1716$ $0.6848$ $-0.0952$ $0.047^*$ C27 $0.32811 (18)$ $0.6340 (4)$ $-0.07655 (13)$ $0.0258 (7)$ H27A $0.3083$ $0.6350$ $-0.1173$ $0.039^*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039^*$ C28 $0.05722 (14)$ $0.5785 (3)$ $0.10208 (12)$ $0.0173 (6)$ H28 $0.0672$ $0.5349$ $0.1382$ $0.021^*$ C29 $-0.03021 (19)$ $0.6938 (5)$ $0.02858 (15)$ $0.0386 (9)$ H29B $0.0125$ $0.6868$ $0.0092$ $0.058^*$ H29B $0.0125$ $0.6868$ $0.0092$ $0.058^*$ <	C22	0.20191 (14)	0.9115 (3)	0.28294 (11)	0.0143 (5)
C23 $0.19968 (15)$ $0.7962 (3)$ $0.24713 (12)$ $0.0146 (5)$ H23 $0.1666$ $0.7202$ $0.2500$ $0.018*$ C24 $0.25574 (13)$ $1.1429 (3)$ $0.31948 (11)$ $0.0112 (5)$ C25 $0.26467 (15)$ $0.5073 (3)$ $-0.01164 (11)$ $0.0149 (5)$ H25 $0.3062$ $0.4447$ $-0.0056$ $0.018*$ C26 $0.20341 (19)$ $0.7121 (4)$ $-0.05927 (15)$ $0.0313 (8)$ H26A $0.2223$ $0.8077$ $-0.0625$ $0.047*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.047*$ H26C $0.1716$ $0.6848$ $-0.0952$ $0.047*$ C27 $0.32811 (18)$ $0.6340 (4)$ $-0.07655 (13)$ $0.0258 (7)$ H27A $0.3083$ $0.6350$ $-0.1173$ $0.039*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039*$ H27C $0.3534$ $0.7234$ $-0.0653$ $0.039*$ C28 $0.05722 (14)$ $0.5785 (3)$ $0.10208 (12)$ $0.0173 (6)$ H28 $0.0672$ $0.5349$ $0.1382$ $0.021*$ C29 $-0.03021 (19)$ $0.6938 (5)$ $0.02858 (15)$ $0.0386 (9)$ H29B $0.0125$ $0.6868$ $0.0092$ $0.058*$	H22	0.1704	0.9144	0.3103	0.017*
H23 $0.1666$ $0.7202$ $0.2500$ $0.018^*$ C24 $0.25574(13)$ $1.1429(3)$ $0.31948(11)$ $0.0112(5)$ C25 $0.26467(15)$ $0.5073(3)$ $-0.01164(11)$ $0.0149(5)$ H25 $0.3062$ $0.4447$ $-0.0056$ $0.018^*$ C26 $0.20341(19)$ $0.7121(4)$ $-0.05927(15)$ $0.0313(8)$ H26A $0.2223$ $0.8077$ $-0.0625$ $0.047^*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.047^*$ H26C $0.1716$ $0.6848$ $-0.0952$ $0.047^*$ C27 $0.32811(18)$ $0.6340(4)$ $-0.07655(13)$ $0.0258(7)$ H27A $0.3083$ $0.6350$ $-0.1173$ $0.039^*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039^*$ C28 $0.05722(14)$ $0.5785(3)$ $0.10208(12)$ $0.0173(6)$ H28 $0.0672$ $0.5349$ $0.1382$ $0.021^*$ C29 $-0.03021(19)$ $0.6938(5)$ $0.02858(15)$ $0.0386(9)$ H29A $-0.0737$ $0.6460$ $0.0061$ $0.058^*$ H29B $0.0125$ $0.6868$ $0.0092$ $0.058^*$	C23	0.19968 (15)	0.7962 (3)	0.24713 (12)	0.0146 (5)
C24 $0.25574(13)$ $1.1429(3)$ $0.31948(11)$ $0.0112(5)$ C25 $0.26467(15)$ $0.5073(3)$ $-0.01164(11)$ $0.0149(5)$ H25 $0.3062$ $0.4447$ $-0.0056$ $0.018*$ C26 $0.20341(19)$ $0.7121(4)$ $-0.05927(15)$ $0.0313(8)$ H26A $0.2223$ $0.8077$ $-0.0625$ $0.047*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.047*$ H26C $0.1716$ $0.6848$ $-0.0952$ $0.047*$ C27 $0.32811(18)$ $0.6340(4)$ $-0.07655(13)$ $0.0258(7)$ H27A $0.3083$ $0.6350$ $-0.1173$ $0.039*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039*$ H27C $0.3534$ $0.7234$ $-0.0653$ $0.039*$ C28 $0.05722(14)$ $0.5785(3)$ $0.10208(12)$ $0.0173(6)$ H28 $0.0672$ $0.5349$ $0.1382$ $0.021*$ C29 $-0.03021(19)$ $0.6938(5)$ $0.02858(15)$ $0.0386(9)$ H29A $-0.0737$ $0.6460$ $0.0061$ $0.058*$ H29B $0.0125$ $0.6868$ $0.0092$ $0.058*$	H23	0.1666	0.7202	0.2500	0.018*
C25 $0.26467 (15)$ $0.5073 (3)$ $-0.01164 (11)$ $0.0149 (5)$ H25 $0.3062$ $0.4447$ $-0.0056$ $0.018*$ C26 $0.20341 (19)$ $0.7121 (4)$ $-0.05927 (15)$ $0.0313 (8)$ H26A $0.2223$ $0.8077$ $-0.0625$ $0.047*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.047*$ H26C $0.1716$ $0.6848$ $-0.0952$ $0.047*$ C27 $0.32811 (18)$ $0.6340 (4)$ $-0.07655 (13)$ $0.0258 (7)$ H27A $0.3083$ $0.6350$ $-0.1173$ $0.039*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039*$ H27C $0.3534$ $0.7234$ $-0.0653$ $0.039*$ C28 $0.05722 (14)$ $0.5785 (3)$ $0.10208 (12)$ $0.0173 (6)$ H28 $0.0672$ $0.5349$ $0.1382$ $0.021*$ C29 $-0.03021 (19)$ $0.6938 (5)$ $0.02858 (15)$ $0.0386 (9)$ H29A $-0.0737$ $0.6460$ $0.0061$ $0.058*$ H29B $0.0125$ $0.6868$ $0.0092$ $0.058*$	C24	0.25574 (13)	1.1429 (3)	0.31948 (11)	0.0112 (5)
H25 $0.3062$ $0.4447$ $-0.0056$ $0.018^*$ C26 $0.20341 (19)$ $0.7121 (4)$ $-0.05927 (15)$ $0.0313 (8)$ H26A $0.2223$ $0.8077$ $-0.0625$ $0.047^*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.047^*$ H26C $0.1716$ $0.6848$ $-0.0952$ $0.047^*$ C27 $0.32811 (18)$ $0.6340 (4)$ $-0.07655 (13)$ $0.0258 (7)$ H27A $0.3083$ $0.6350$ $-0.1173$ $0.039^*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039^*$ H27C $0.3534$ $0.7234$ $-0.0653$ $0.039^*$ C28 $0.05722 (14)$ $0.5785 (3)$ $0.10208 (12)$ $0.0173 (6)$ H28 $0.0672$ $0.5349$ $0.1382$ $0.021^*$ C29 $-0.03021 (19)$ $0.6938 (5)$ $0.02858 (15)$ $0.0386 (9)$ H29A $-0.0737$ $0.6460$ $0.0061$ $0.058^*$ H29B $0.0125$ $0.6868$ $0.0092$ $0.058^*$	C25	0.26467 (15)	0.5073 (3)	-0.01164 (11)	0.0149 (5)
C26 $0.20341(19)$ $0.7121(4)$ $-0.05927(15)$ $0.0313(8)$ H26A $0.2223$ $0.8077$ $-0.0625$ $0.047*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.047*$ H26C $0.1716$ $0.6848$ $-0.0952$ $0.047*$ C27 $0.32811(18)$ $0.6340(4)$ $-0.07655(13)$ $0.0258(7)$ H27A $0.3083$ $0.6350$ $-0.1173$ $0.039*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.39*$ H27C $0.3534$ $0.7234$ $-0.0653$ $0.039*$ C28 $0.05722(14)$ $0.5785(3)$ $0.10208(12)$ $0.0173(6)$ H28 $0.0672$ $0.5349$ $0.1382$ $0.021*$ C29 $-0.03021(19)$ $0.6938(5)$ $0.02858(15)$ $0.0386(9)$ H29A $-0.0737$ $0.6460$ $0.0061$ $0.058*$ H29B $0.0125$ $0.6868$ $0.0092$ $0.058*$	H25	0.3062	0.4447	-0.0056	0.018*
H26A $0.2223$ $0.8077$ $-0.0625$ $0.047^*$ H26B $0.1740$ $0.7090$ $-0.0291$ $0.047^*$ H26C $0.1716$ $0.6848$ $-0.0952$ $0.047^*$ C27 $0.32811(18)$ $0.6340(4)$ $-0.07655(13)$ $0.0258(7)$ H27A $0.3083$ $0.6350$ $-0.1173$ $0.039^*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039^*$ H27C $0.3534$ $0.7234$ $-0.0653$ $0.039^*$ C28 $0.05722(14)$ $0.5785(3)$ $0.10208(12)$ $0.0173(6)$ H28 $0.0672$ $0.5349$ $0.1382$ $0.021^*$ C29 $-0.03021(19)$ $0.6938(5)$ $0.02858(15)$ $0.0386(9)$ H29A $-0.0737$ $0.6460$ $0.0061$ $0.058^*$ H29B $0.0125$ $0.6868$ $0.0092$ $0.058^*$	C26	0.20341 (19)	0.7121 (4)	-0.05927 (15)	0.0313 (8)
H26B $0.1740$ $0.7090$ $-0.0291$ $0.047^*$ H26C $0.1716$ $0.6848$ $-0.0952$ $0.047^*$ C27 $0.32811(18)$ $0.6340(4)$ $-0.07655(13)$ $0.0258(7)$ H27A $0.3083$ $0.6350$ $-0.1173$ $0.039^*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039^*$ H27C $0.3534$ $0.7234$ $-0.0653$ $0.039^*$ C28 $0.05722(14)$ $0.5785(3)$ $0.10208(12)$ $0.0173(6)$ H28 $0.0672$ $0.5349$ $0.1382$ $0.021^*$ C29 $-0.03021(19)$ $0.6938(5)$ $0.02858(15)$ $0.0386(9)$ H29A $-0.0737$ $0.6460$ $0.0061$ $0.058^*$ H29B $0.0125$ $0.6868$ $0.0092$ $0.058^*$	H26A	0.2223	0.8077	-0.0625	0.047*
H26C $0.1716$ $0.6848$ $-0.0952$ $0.047^*$ C27 $0.32811(18)$ $0.6340(4)$ $-0.07655(13)$ $0.0258(7)$ H27A $0.3083$ $0.6350$ $-0.1173$ $0.039^*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039^*$ H27C $0.3534$ $0.7234$ $-0.0653$ $0.039^*$ C28 $0.05722(14)$ $0.5785(3)$ $0.10208(12)$ $0.0173(6)$ H28 $0.0672$ $0.5349$ $0.1382$ $0.021^*$ C29 $-0.03021(19)$ $0.6938(5)$ $0.02858(15)$ $0.0386(9)$ H29A $-0.0737$ $0.6460$ $0.0061$ $0.058^*$ H29B $0.0125$ $0.6868$ $0.0092$ $0.058^*$	H26B	0.1740	0.7090	-0.0291	0.047*
C27 $0.32811(18)$ $0.6340(4)$ $-0.07655(13)$ $0.0258(7)$ H27A $0.3083$ $0.6350$ $-0.1173$ $0.039*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039*$ H27C $0.3534$ $0.7234$ $-0.0653$ $0.039*$ C28 $0.05722(14)$ $0.5785(3)$ $0.10208(12)$ $0.0173(6)$ H28 $0.0672$ $0.5349$ $0.1382$ $0.021*$ C29 $-0.03021(19)$ $0.6938(5)$ $0.02858(15)$ $0.0386(9)$ H29A $-0.0737$ $0.6460$ $0.0061$ $0.058*$ H29B $0.0125$ $0.6868$ $0.0092$ $0.058*$	H26C	0.1716	0.6848	-0.0952	0.047*
H27A $0.3083$ $0.6350$ $-0.1173$ $0.039^*$ H27B $0.3639$ $0.5565$ $-0.0675$ $0.039^*$ H27C $0.3534$ $0.7234$ $-0.0653$ $0.039^*$ C28 $0.05722 (14)$ $0.5785 (3)$ $0.10208 (12)$ $0.0173 (6)$ H28 $0.0672$ $0.5349$ $0.1382$ $0.021^*$ C29 $-0.03021 (19)$ $0.6938 (5)$ $0.02858 (15)$ $0.0386 (9)$ H29A $-0.0737$ $0.6460$ $0.0061$ $0.058^*$ H29B $0.0125$ $0.6868$ $0.0092$ $0.058^*$	C27	0.32811 (18)	0.6340 (4)	-0.07655 (13)	0.0258 (7)
H27B $0.3639$ $0.5565$ $-0.0675$ $0.039*$ H27C $0.3534$ $0.7234$ $-0.0653$ $0.039*$ C28 $0.05722 (14)$ $0.5785 (3)$ $0.10208 (12)$ $0.0173 (6)$ H28 $0.0672$ $0.5349$ $0.1382$ $0.021*$ C29 $-0.03021 (19)$ $0.6938 (5)$ $0.02858 (15)$ $0.0386 (9)$ H29A $-0.0737$ $0.6460$ $0.0061$ $0.058*$ H29B $0.0125$ $0.6868$ $0.0092$ $0.058*$	H27A	0.3083	0.6350	-0.1173	0.039*
H27C0.35340.7234-0.06530.039*C280.05722 (14)0.5785 (3)0.10208 (12)0.0173 (6)H280.06720.53490.13820.021*C29-0.03021 (19)0.6938 (5)0.02858 (15)0.0386 (9)H29A-0.07370.64600.00610.058*H29B0.01250.68680.00920.058*H20C-0.04230.70310.03320.058*	H27B	0.3639	0.5565	-0.0675	0.039*
C280.05722 (14)0.5785 (3)0.10208 (12)0.0173 (6)H280.06720.53490.13820.021*C29-0.03021 (19)0.6938 (5)0.02858 (15)0.0386 (9)H29A-0.07370.64600.00610.058*H29B0.01250.68680.00920.058*H29C-0.04230.70310.03320.058*	H27C	0.3534	0.7234	-0.0653	0.039*
H280.06720.53490.13820.021*C29-0.03021 (19)0.6938 (5)0.02858 (15)0.0386 (9)H29A-0.07370.64600.00610.058*H29B0.01250.68680.00920.058*H20C-0.04230.70310.03320.058*	C28	0.05722 (14)	0.5785 (3)	0.10208 (12)	0.0173 (6)
C29-0.03021 (19)0.6938 (5)0.02858 (15)0.0386 (9)H29A-0.07370.64600.00610.058*H29B0.01250.68680.00920.058*H20C-0.04230.70310.03320.058*	H28	0.0672	0.5349	0.1382	0.021*
H29A       -0.0737       0.6460       0.0061       0.058*         H29B       0.0125       0.6868       0.0092       0.058*         H20C       -0.0423       0.7031       0.0332       0.058*	C29	-0.03021 (19)	0.6938 (5)	0.02858 (15)	0.0386 (9)
H29B 0.0125 0.6868 0.0092 0.058* H20C -0.0423 0.7021 0.0322 0.058*	H29A	-0.0737	0.6460	0.0061	0.058*
H20C0.0422 0.7021 0.0222 0.058*	H29B	0.0125	0.6868	0.0092	0.058*
129C $-0.0425$ $0.7951$ $0.0552$ $0.038$	H29C	-0.0423	0.7931	0.0332	0.058*

C30	-0.07011 (17)	0.6193 (4)	0.11684 (15)	0.0325 (8)	
H30A	-0.1142	0.5730	0.0945	0.049*	
H30B	-0.0837	0.7143	0.1271	0.049*	
H30C	-0.0522	0.5648	0.1513	0.049*	
O15	0.39003 (12)	0.2178 (3)	0.41379 (13)	0.0163 (6)	0.923 (4)
C31	0.43687 (16)	0.2254 (4)	0.38262 (14)	0.0205 (7)	0.923 (4)
H31	0.4223	0.2736	0.3477	0.025*	0.923 (4)
N3	0.50494 (17)	0.1726 (3)	0.39358 (14)	0.0223 (7)	0.923 (4)
C32	0.55482 (19)	0.1786 (4)	0.35236 (17)	0.0331 (9)	0.923 (4)
H32A	0.6058	0.2014	0.3718	0.050*	0.923 (4)
H32B	0.5371	0.2512	0.3241	0.050*	0.923 (4)
H32C	0.5549	0.0871	0.3336	0.050*	0.923 (4)
C33	0.5317 (2)	0.0975 (6)	0.44580 (19)	0.0518 (14)	0.923 (4)
H33A	0.5822	0.1304	0.4624	0.078*	0.923 (4)
H33B	0.5332	-0.0035	0.4380	0.078*	0.923 (4)
H33C	0.4978	0.1149	0.4723	0.078*	0.923 (4)
O15B	0.3792 (13)	0.193 (4)	0.423 (2)	0.0163 (6)	0.077 (4)
C31B	0.4482 (14)	0.211 (4)	0.4268 (15)	0.021 (4)	0.077 (4)
H31B	0.4709	0.2819	0.4521	0.026*	0.077 (4)
N3B	0.4921 (15)	0.140 (4)	0.3991 (18)	0.0223 (7)	0.077 (4)
C32B	0.461 (2)	0.052 (5)	0.3498 (16)	0.034 (8)	0.077 (4)
H32D	0.4994	0.0368	0.3268	0.051*	0.077 (4)
H32E	0.4178	0.1004	0.3270	0.051*	0.077 (4)
H32F	0.4448	-0.0384	0.3627	0.051*	0.077 (4)
C33B	0.5715 (15)	0.168 (5)	0.405 (2)	0.041 (9)	0.077 (4)
H33D	0.5894	0.1304	0.3717	0.061*	0.077 (4)
H33E	0.5988	0.1230	0.4391	0.061*	0.077 (4)
H33F	0.5801	0.2698	0.4070	0.061*	0.077 (4)
C34	0.23760 (16)	0.3682 (3)	0.50274 (12)	0.0186 (6)	
H34	0.1934	0.3128	0.4996	0.022*	
C35	0.31082 (17)	0.5676 (4)	0.54180 (15)	0.0290 (7)	
H35A	0.2977	0.6662	0.5469	0.044*	
H35B	0.3338	0.5591	0.5082	0.044*	
H35C	0.3464	0.5355	0.5752	0.044*	
C36	0.18345 (18)	0.5209 (4)	0.56510 (14)	0.0275 (7)	
H36A	0.1673	0.6176	0.5551	0.041*	
H36B	0.2025	0.5149	0.6059	0.041*	
H36C	0.1408	0.4569	0.5547	0.041*	

Atomic displacement parameters  $(\AA^2)$ 

	$U^{11}$	$U^{22}$	$U^{33}$	$U^{12}$	$U^{13}$	$U^{23}$
Mg1	0.0078 (4)	0.0106 (4)	0.0116 (4)	0.0001 (3)	0.0037 (3)	-0.0002 (3)
Mg2	0.0061 (4)	0.0082 (4)	0.0103 (4)	0.0000 (3)	0.0024 (3)	-0.0007 (3)
Mg3	0.0090 (4)	0.0092 (4)	0.0117 (4)	-0.0002 (3)	0.0030 (3)	-0.0006 (3)
01	0.0104 (9)	0.0187 (10)	0.0168 (10)	0.0035 (7)	0.0032 (7)	-0.0010 (8)
O2	0.0094 (8)	0.0197 (10)	0.0163 (10)	0.0038 (7)	0.0068 (7)	0.0006 (8)
03	0.0107 (8)	0.0142 (10)	0.0159 (9)	0.0041 (7)	0.0007 (7)	0.0016 (8)

04	0.0125 (9)	0.0167 (10)	0.0159 (10)	0.0066 (7)	0.0056 (7)	0.0014 (8)
05	0.0131 (9)	0.0147 (9)	0.0142 (9)	-0.0053 (7)	0.0045 (7)	0.0003 (8)
06	0.0109 (8)	0.0132 (9)	0.0146 (9)	-0.0035 (7)	-0.0002 (7)	-0.0018 (8)
07	0.0110 (8)	0.0176 (10)	0.0135 (9)	-0.0025 (7)	0.0067 (7)	0.0001 (8)
08	0.0097 (8)	0.0166 (10)	0.0140 (9)	-0.0026 (7)	0.0028 (7)	0.0007 (8)
09	0.0168 (9)	0.0127 (9)	0.0142 (9)	-0.0011 (7)	0.0070 (7)	0.0001 (8)
O10	0.0111 (8)	0.0078 (8)	0.0122 (9)	0.0000 (6)	0.0017 (7)	0.0009 (7)
011	0.0159 (9)	0.0117 (9)	0.0147 (9)	-0.0014 (7)	0.0075 (7)	-0.0018 (7)
012	0.0101 (8)	0.0101 (9)	0.0119 (9)	-0.0008 (6)	0.0030 (7)	-0.0002 (7)
013	0.0159 (9)	0.0250 (11)	0.0124 (9)	-0.0017 (8)	0.0049 (7)	-0.0014 (8)
014	0.0121 (9)	0.0226 (11)	0.0166 (10)	0.0060 (8)	0.0046 (7)	0.0033 (8)
016	0.0190 (9)	0.0188 (10)	0.0109 (9)	0.0029 (8)	0.0050 (7)	0.0003 (8)
N1	0.0228 (12)	0.0161 (12)	0.0194 (12)	-0.0002 (9)	0.0078 (10)	0.0002 (10)
N2	0.0111 (11)	0.0288 (14)	0.0217 (13)	0.0066 (10)	0.0042 (9)	0.0019 (11)
N4	0.0222 (12)	0.0177 (13)	0.0227 (13)	-0.0023 (9)	0.0082 (10)	-0.0024 (10)
C1	0.0094 (11)	0.0113 (12)	0.0185 (13)	-0.0007 (9)	0.0046 (10)	-0.0002(10)
C2	0.0113 (12)	0.0156 (13)	0.0170 (13)	0.0032 (10)	0.0047 (10)	-0.0005 (11)
C3	0.0119 (12)	0.0212 (14)	0.0140 (13)	0.0043 (10)	0.0013 (10)	-0.0003 (11)
C4	0.0130 (12)	0.0201 (14)	0.0126 (13)	0.0070 (10)	0.0030 (10)	-0.0021 (11)
C5	0.0093 (11)	0.0155 (13)	0.0168 (13)	0.0025 (9)	0.0053 (10)	0.0010 (11)
C6	0.0144 (14)	0.048 (2)	0.0176 (15)	0.0133 (13)	-0.0013 (11)	-0.0077 (14)
C7	0.0175 (14)	0.051 (2)	0.0165 (14)	0.0158 (14)	0.0042 (11)	-0.0103 (14)
C8	0.0089 (11)	0.0093 (12)	0.0176 (13)	0.0001 (9)	0.0051 (9)	0.0026 (10)
C9	0.0080 (11)	0.0121 (12)	0.0142 (12)	-0.0002 (9)	0.0041 (9)	-0.0006 (10)
C10	0.0077 (11)	0.0134 (13)	0.0139 (13)	-0.0015 (9)	0.0033 (9)	0.0016 (10)
C11	0.0111 (12)	0.0203 (14)	0.0120 (12)	-0.0021 (10)	0.0051 (9)	0.0023 (11)
C12	0.0111 (12)	0.0194 (14)	0.0135 (13)	-0.0034 (10)	0.0013 (9)	0.0004 (11)
C13	0.0087 (11)	0.0157 (13)	0.0126 (12)	-0.0026 (9)	0.0054 (9)	0.0009 (10)
C14	0.0155 (13)	0.0323 (17)	0.0123 (13)	-0.0078 (12)	0.0055 (10)	0.0005 (12)
C15	0.0150 (13)	0.0284 (16)	0.0111 (13)	-0.0089 (11)	0.0014 (10)	-0.0006 (12)
C16	0.0095 (11)	0.0084 (12)	0.0159 (13)	0.0002 (9)	0.0048 (9)	0.0018 (10)
C17	0.0093 (11)	0.0093 (12)	0.0136 (12)	0.0022 (9)	0.0015 (9)	-0.0005 (10)
C18	0.0133 (12)	0.0084 (12)	0.0140 (13)	0.0005 (9)	0.0005 (10)	0.0008 (10)
C19	0.0144 (12)	0.0128 (13)	0.0177 (13)	-0.0016 (10)	0.0072 (10)	-0.0023 (11)
C20	0.0163 (12)	0.0079 (12)	0.0187 (13)	-0.0018 (9)	0.0055 (10)	0.0013 (10)
C21	0.0113 (11)	0.0096 (12)	0.0147 (13)	0.0022 (9)	0.0020 (9)	-0.0011 (10)
C22	0.0169 (12)	0.0110 (12)	0.0162 (13)	-0.0004 (10)	0.0067 (10)	-0.0005 (10)
C23	0.0164 (13)	0.0101 (12)	0.0186 (14)	-0.0026 (10)	0.0064 (10)	-0.0010 (10)
C24	0.0106 (11)	0.0100 (12)	0.0130 (12)	0.0007 (9)	0.0022 (9)	-0.0003 (10)
C25	0.0154 (12)	0.0154 (13)	0.0139 (13)	0.0003 (10)	0.0031 (10)	-0.0018 (10)
C26	0.0373 (19)	0.0222 (17)	0.0322 (18)	0.0086 (14)	0.0009 (14)	0.0043 (14)
C27	0.0329 (17)	0.0253 (17)	0.0223 (16)	-0.0101 (13)	0.0130 (13)	0.0015 (13)
C28	0.0141 (12)	0.0189 (14)	0.0190 (14)	0.0029 (10)	0.0032 (10)	0.0011 (11)
C29	0.0261 (17)	0.059 (3)	0.0301 (19)	0.0200 (17)	0.0031 (14)	0.0126 (18)
C30	0.0196 (15)	0.045 (2)	0.038 (2)	0.0080 (14)	0.0167 (14)	0.0013 (17)
015	0.0123 (11)	0.0183 (14)	0.0193 (15)	0.0039 (9)	0.0054 (9)	0.0026 (9)
C31	0.0144 (14)	0.0218 (17)	0.0253 (17)	0.0065 (12)	0.0036 (12)	0.0014 (14)
N3	0.0122 (13)	0.0260 (18)	0.0293 (16)	0.0041 (11)	0.0056 (11)	0.0071 (14)

C32	0.0197 (17)	0.039 (2)	0.043 (2)	0.0097 (15)	0.0128 (16)	0.0039 (18)
C33	0.030 (2)	0.079 (4)	0.046 (3)	0.025 (2)	0.0068 (18)	0.030 (3)
O15B	0.0123 (11)	0.0183 (14)	0.0193 (15)	0.0039 (9)	0.0054 (9)	0.0026 (9)
C31B	0.015 (7)	0.024 (7)	0.026 (7)	0.007 (7)	0.005 (7)	0.006 (7)
N3B	0.0122 (13)	0.0260 (18)	0.0293 (16)	0.0041 (11)	0.0056 (11)	0.0071 (14)
C32B	0.021 (14)	0.037 (16)	0.049 (16)	-0.008 (13)	0.019 (13)	0.006 (15)
C33B	0.015 (14)	0.052 (17)	0.057 (17)	0.004 (14)	0.011 (14)	-0.013 (16)
C34	0.0201 (14)	0.0173 (14)	0.0188 (14)	-0.0015 (11)	0.0045 (11)	0.0010 (12)
C35	0.0259 (16)	0.0258 (17)	0.0372 (19)	-0.0053 (13)	0.0105 (14)	-0.0102 (15)
C36	0.0290 (17)	0.0271 (17)	0.0295 (17)	-0.0036 (13)	0.0138 (13)	-0.0079 (14)

## Geometric parameters (Å, °)

Mg1—O1	2.024 (2)	C10—C15	1.388 (4)
Mg1-013	2.036 (2)	C10—C11	1.400 (4)
Mg1—O5	2.042 (2)	C11—C12	1.390 (4)
Mg1-014	2.103 (2)	C11—H11	0.9500
Mg1-010	2.162 (2)	C12—C13	1.396 (4)
Mg1—09	2.217 (2)	C12—H12	0.9500
Mg1—C17	2.522 (3)	C13—C14	1.390 (4)
Mg1—Mg2	3.5575 (13)	C13—C16	1.514 (3)
Mg2—06	2.0393 (19)	C14—C15	1.392 (4)
Mg2—O3 <sup>i</sup>	2.046 (2)	C14—H14	0.9500
Mg2—O2	2.0614 (19)	C15—H15	0.9500
Mg2—O7 <sup>ii</sup>	2.0619 (19)	C17—C18	1.497 (4)
Mg2—O12 <sup>iii</sup>	2.079 (2)	C18—C23	1.390 (4)
Mg2-010	2.0837 (19)	C18—C19	1.397 (4)
Mg2—Mg3	3.5550 (13)	C19—C20	1.390 (4)
Mg3—016	2.013 (2)	C19—H19	0.9500
Mg3—O4 <sup>i</sup>	2.028 (2)	C20—C21	1.391 (4)
Mg3—O8 <sup>ii</sup>	2.0338 (19)	C20—H20	0.9500
Mg3—015	2.120 (2)	C21—C22	1.396 (4)
Mg3—O15B	2.127 (18)	C21—C24	1.496 (4)
Mg3—O12 <sup>iii</sup>	2.157 (2)	C22—C23	1.390 (4)
Mg3—O11 <sup>iii</sup>	2.189 (2)	C22—H22	0.9500
Mg3—C24 <sup>iii</sup>	2.503 (3)	C23—H23	0.9500
01—C1	1.266 (3)	C24—Mg3 <sup>vi</sup>	2.503 (3)
O2—C1	1.248 (3)	C25—H25	0.9500
O3—C8	1.254 (3)	C26—H26A	0.9800
O3—Mg2 <sup>iv</sup>	2.0456 (19)	C26—H26B	0.9800
O4—C8	1.265 (3)	C26—H26C	0.9800
O4—Mg3 <sup>iv</sup>	2.028 (2)	C27—H27A	0.9800
05–C9	1.270 (3)	C27—H27B	0.9800
O6—C9	1.246 (3)	C27—H27C	0.9800
O7—C16	1.251 (3)	C28—H28	0.9500
O7—Mg2 <sup>v</sup>	2.0618 (19)	C29—H29A	0.9800
O8—C16	1.266 (3)	C29—H29B	0.9800
O8—Mg3 <sup>v</sup>	2.0338 (19)	C29—H29C	0.9800

O9—C17	1.257 (3)	C30—H30A	0.9800
O10—C17	1.285 (3)	С30—Н30В	0.9800
O11—C24	1.253 (3)	С30—Н30С	0.9800
O11—Mg3 <sup>vi</sup>	2.189 (2)	O15—C31	1.237 (4)
O12—C24	1.288 (3)	C31—N3	1.314 (4)
O12—Mg2 <sup>vi</sup>	2.079 (2)	C31—H31	0.9500
O12—Mg3 <sup>vi</sup>	2.157 (2)	N3—C33	1.448 (5)
O13—C25	1.244 (3)	N3—C32	1.465 (4)
O14—C28	1.242 (3)	С32—Н32А	0.9800
O16—C34	1.242 (3)	C32—H32B	0.9800
N1—C25	1.318 (4)	C32—H32C	0.9800
N1—C26	1.461 (4)	С33—Н33А	0.9800
N1—C27	1.461 (4)	С33—Н33В	0.9800
N2—C28	1.324 (3)	С33—Н33С	0.9800
N2—C29	1.447 (4)	O15B—C31B	1.250 (19)
N2—C30	1.453 (4)	C31B—N3B	1.318 (18)
N4—C34	1.312 (4)	C31B—H31B	0.9500
N4—C35	1.463 (4)	N3B—C33B	1.448 (18)
N4—C36	1.468 (4)	N3B—C32B	1.473 (19)
C1—C2	1.515 (3)	C32B—H32D	0.9800
C2-C3	1.388 (4)	C32B—H32E	0.9800
C2—C7	1.394 (4)	C32B—H32F	0.9800
C3—C4	1.399 (4)	C33B—H33D	0.9800
C3—H3	0.9500	C33B—H33E	0.9800
C4—C5	1 399 (4)	C33B—H33F	0.9800
C4—H4	0.9500	C34—H34	0.9500
C5—C6	1 383 (4)	C35—H35A	0.9800
C5—C8	1.516 (3)	C35—H35B	0.9800
C6—C7	1.393 (4)	C35—H35C	0.9800
С6—Н6	0.9500	C36—H36A	0.9800
С7—Н7	0.9500	C36—H36B	0.9800
C9—C10	1.516 (3)	C36—H36C	0.9800
			0.0000
O1—Mg1—O13	89.62 (8)	C5—C6—C7	120.3 (3)
01—Mg1—05	98.14 (9)	С5—С6—Н6	119.9
O13—Mg1—O5	105.97 (9)	С7—С6—Н6	119.9
01—Mg1—014	173.16 (9)	C6—C7—C2	120.7 (3)
O13—Mg1—O14	84.17 (8)	С6—С7—Н7	119.7
O5—Mg1—O14	86.35 (8)	С2—С7—Н7	119.7
01—Mg1—010	99.32 (8)	03	126.1 (2)
013—Mg1—010	155.37 (9)	O3—C8—C5	116.5 (2)
O5—Mg1—O10	95.50 (8)	O4—C8—C5	117.4 (2)
O14—Mg1—O10	85.30 (8)	06	125.9 (2)
01—Mg1—09	92.91 (8)	O6—C9—C10	116.7 (2)
013—Mg1—O9	96.53 (8)	O5—C9—C10	117.4 (2)
O5—Mg1—O9	154.90 (8)	C15—C10—C11	119.2 (2)
014—Mg1—09	84.98 (8)	C15—C10—C9	119.5 (2)
O10—Mg1—O9	60.35 (7)	C11—C10—C9	121.3 (2)

O1—Mg1—C17	99.35 (8)	C12—C11—C10	120.2 (2)
O13—Mg1—C17	125.41 (9)	C12—C11—H11	119.9
O5—Mg1—C17	125.37 (9)	C10-C11-H11	119.9
O14—Mg1—C17	82.04 (8)	C11—C12—C13	120.5 (2)
O10—Mg1—C17	30.63 (7)	C11—C12—H12	119.8
O9—Mg1—C17	29.88 (8)	C13—C12—H12	119.8
O1—Mg1—Mg2	75.75 (6)	C14—C13—C12	119.0 (2)
O13—Mg1—Mg2	165.35 (7)	C14—C13—C16	120.0 (2)
O5—Mg1—Mg2	77.27 (6)	C12—C13—C16	121.0 (2)
O14—Mg1—Mg2	110.41 (6)	C13—C14—C15	120.6 (3)
O10—Mg1—Mg2	32.40 (5)	C13—C14—H14	119.7
O9—Mg1—Mg2	83.78 (6)	C15—C14—H14	119.7
C17—Mg1—Mg2	58.04 (6)	C10-C15-C14	120.5 (2)
$O6-Mg2-O3^{i}$	178.51 (9)	C10-C15-H15	119.8
O6—Mg2—O2	93.34 (8)	C14—C15—H15	119.8
O3 <sup>i</sup> —Mg2—O2	87.23 (8)	O7—C16—O8	126.4 (2)
06—Mg2—07 <sup>ii</sup>	86.70 (8)	Q7—C16—C13	116.6 (2)
$O3^{i}$ Mg2 $O7^{ii}$	92.76 (8)	08—C16—C13	117.0(2)
$\Omega_2$ —Mg2— $\Omega_7^{ii}$	178.54 (9)	09-C17-O10	120.0(2)
$06-Mg2-012^{iii}$	90.58 (8)	O9-C17-C18	120.0(2) 121.5(2)
$O3^{i} - Mg2 - O12^{iii}$	88.04 (8)	010-017-018	121.5(2) 118.5(2)
$\Omega^2 - Mg^2 - \Omega^2^{iii}$	91 11 (8)	09-C17-Mg1	61 46 (14)
$0.2^{ii}$ Mg2 $0.12^{iii}$	90 35 (8)	O10-C17-Mg1	59.02 (13)
$06 - Mg^2 - 010$	86 62 (8)	C18— $C17$ — $Mg1$	$170\ 10\ (17)$
$\Omega_{3^{i}} Mg^{2} = \Omega_{10}$	94 77 (8)	$C^{23}$ $C^{18}$ $C^{19}$	1199(2)
$\Omega^2 - Mg^2 - \Omega^{10}$	88 49 (8)	$C_{23}$ $C_{18}$ $C_{17}$	119.5(2)
$0.2^{ii}$ Mg2 010	90.06 (8)	$C_{23} = C_{13} = C_{17}$	119.5(2) 120.5(2)
$012^{iii}$ Mg2 010	177 14 (8)	$C_{10}^{-} - C_{10}^{-} - C_{18}^{-}$	120.3(2) 120.1(2)
$O_{12} = M_{12} = O_{10}$	112 48 (6)	$C_{20} = C_{10} = C_{10}$	120.1 (2)
$\Omega_{i}^{i}$ Mg2 Mg3	66 04 (6)	$C_{20} = C_{19} = H_{19}$	120.0
$O_2 M g_2 M g_3$	11372(6)	$C_{10} = C_{10} = C_{10}$	120.0 110.8(2)
O2 - Mg2 - Mg3 $O7^{ii} Mg2 - Mg3$	67 58 (6)	$C_{19} = C_{20} = C_{21}$	119.8 (2)
$O_1^{iii}$ Ma2 Ma3	07.58 (0) 33.64 (5)	$C_{19} = C_{20} = H_{20}$	120.1
O12 - Mg2 - Mg3	148.62(6)	$C_{21} = C_{20} = 1120$	120.1
$O_1 O_1 O_1 O_2 O_1 O_2 O_2 O_2 O_2 O_2 O_2 O_2 O_2 O_2 O_2$	140.03(0)	$C_{20} = C_{21} = C_{22}$	120.2(2)
$O_{i}^{i}$ Ma2 Ma1	04.33(0)	$C_{20} = C_{21} = C_{24}$	120.2(2)
$O_2 = M_{02} = M_{01}$	110.95(0)	$C_{22} = C_{21} = C_{24}$	119.3(2)
$O_2 - Mg_2 - Mg_1$	00.24(0)	$C_{23} = C_{22} = C_{21}$	119.9 (2)
$O_{12}$ Mg2 Mg1	112.51 (6)	C23-C22-H22	120.1
Olo Mc2 Mc1	143.84(0)	C21—C22—H22	120.1
Olo—Mg2—Mg1	33.79(5)	C18 - C23 - C22	120.1 (2)
Mg3—Mg2—Mg1	1/6.90 (3)	C18—C23—H23	120.0
$016 - Mg3 - 04^{\circ}$	100.97 (9)	C22—C23—H23	120.0
$U10 - Mg3 - U8^{"}$	89.38 (8)	011 - 024 - 012	120.1 (2)
$U4^{-}Mg3-U8^{+}$	90.07 (9)	011 - 024 - 021	120.8 (2)
016—Mg3—015	86.20 (10)	012—024—021	119.0 (2)
04 <sup>1</sup> —Mg3—015	86.40 (10)	$O11 - C24 - Mg3^{v_1}$	60.98 (14)
08 <sup>u</sup> —Mg3—O15	175.03 (10)	$O12$ — $C24$ — $Mg3^{v_1}$	59.53 (13)
O16—Mg3—O15B	79.4 (12)	$C21$ — $C24$ — $Mg3^{vi}$	169.95 (18)

O4 <sup>i</sup> —Mg3—O15B	95.7 (10)	O13—C25—N1	124.3 (3)
O8 <sup>ii</sup> —Mg3—O15B	164.7 (9)	O13—C25—H25	117.9
O15—Mg3—O15B	10.6 (9)	N1—C25—H25	117.9
O16—Mg3—O12 <sup>iii</sup>	161.12 (9)	N1—C26—H26A	109.5
O4 <sup>i</sup> —Mg3—O12 <sup>iii</sup>	95.39 (8)	N1—C26—H26B	109.5
O8 <sup>ii</sup> —Mg3—O12 <sup>iii</sup>	98.07 (8)	H26A—C26—H26B	109.5
O15—Mg3—O12 <sup>iii</sup>	85.49 (11)	N1—C26—H26C	109.5
O15B—Mg3—O12 <sup>iii</sup>	89.8 (13)	H26A—C26—H26C	109.5
O16—Mg3—O11 <sup>iii</sup>	101.73 (8)	H26B—C26—H26C	109.5
O4 <sup>i</sup> —Mg3—O11 <sup>iii</sup>	155.71 (9)	N1—C27—H27A	109.5
O8 <sup>ii</sup> —Mg3—O11 <sup>iii</sup>	92.10 (8)	N1—C27—H27B	109.5
O15—Mg3—O11 <sup>iii</sup>	86.60 (10)	H27A—C27—H27B	109.5
O15B—Mg3—O11 <sup>iii</sup>	80.2 (12)	N1—C27—H27C	109.5
O12 <sup>iii</sup> —Mg3—O11 <sup>iii</sup>	60.87 (7)	Н27А—С27—Н27С	109.5
O16—Mg3—C24 <sup>iii</sup>	130.95 (9)	H27B—C27—H27C	109.5
O4 <sup>i</sup> —Mg3—C24 <sup>iii</sup>	125.85 (9)	O14—C28—N2	124.3 (3)
O8 <sup>ii</sup> —Mg3—C24 <sup>iii</sup>	97.93 (8)	O14—C28—H28	117.8
O15—Mg3—C24 <sup>iii</sup>	83.32 (11)	N2—C28—H28	117.8
O15B—Mg3—C24 <sup>iii</sup>	82.0 (14)	N2—C29—H29A	109.5
O12 <sup>iii</sup> —Mg3—C24 <sup>iii</sup>	30.96 (8)	N2—C29—H29B	109.5
O11 <sup>iii</sup> —Mg3—C24 <sup>iii</sup>	30.04 (8)	H29A—C29—H29B	109.5
O16—Mg3—Mg2	163.43 (7)	N2—C29—H29C	109.5
O4 <sup>i</sup> —Mg3—Mg2	76.26 (6)	H29A—C29—H29C	109.5
O8 <sup>ii</sup> —Mg3—Mg2	74.89 (6)	H29B—C29—H29C	109.5
O15—Mg3—Mg2	109.72 (9)	N2-C30-H30A	109.5
O15B—Mg3—Mg2	117.1 (12)	N2-C30-H30B	109.5
O12 <sup>iii</sup> —Mg3—Mg2	32.27 (5)	H30A—C30—H30B	109.5
O11 <sup>iii</sup> —Mg3—Mg2	84.30 (6)	N2-C30-H30C	109.5
C24 <sup>iii</sup> —Mg3—Mg2	58.19 (6)	H30A—C30—H30C	109.5
C1—O1—Mg1	128.18 (18)	H30B-C30-H30C	109.5
C1—O2—Mg2	141.34 (17)	C31—O15—Mg3	119.9 (2)
C8—O3—Mg2 <sup>iv</sup>	140.36 (18)	O15—C31—N3	125.7 (3)
C8—O4—Mg3 <sup>iv</sup>	126.01 (17)	O15—C31—H31	117.1
C9—O5—Mg1	123.60 (17)	N3—C31—H31	117.1
C9—O6—Mg2	142.32 (18)	C31—N3—C33	120.8 (3)
C16—O7—Mg2 <sup>v</sup>	140.37 (17)	C31—N3—C32	121.8 (3)
C16—O8—Mg3 <sup>v</sup>	130.02 (17)	C33—N3—C32	117.2 (3)
C17—O9—Mg1	88.66 (15)	C31B—O15B—Mg3	130 (3)
C17—O10—Mg2	131.15 (16)	O15B—C31B—N3B	126 (3)
C17—O10—Mg1	90.35 (15)	O15B—C31B—H31B	117.2
Mg2—O10—Mg1	113.81 (9)	N3B—C31B—H31B	117.2
C24—O11—Mg3 <sup>vi</sup>	88.98 (15)	C31B—N3B—C33B	123 (2)
C24—O12—Mg2 <sup>vi</sup>	131.40 (16)	C31B—N3B—C32B	121 (2)
C24—O12—Mg3 <sup>vi</sup>	89.52 (15)	C33B—N3B—C32B	114 (2)
$Mg2^{vi}$ —O12—Mg $3^{vi}$	114.08 (9)	N3B—C32B—H32D	109.5
C25—O13—Mg1	130.98 (18)	N3B—C32B—H32E	109.5
C28—O14—Mg1	123.08 (18)	H32D—C32B—H32E	109.5
C34—O16—Mg3	130.47 (19)	N3B—C32B—H32F	109.5

C25—N1—C26	121.1 (3)	H32D—C32B—H32F	109.5
C25—N1—C27	121.7 (3)	H32E—C32B—H32F	109.5
C26—N1—C27	117.0 (3)	N3B—C33B—H33D	109.5
C28—N2—C29	120.5 (3)	N3B—C33B—H33E	109.5
C28—N2—C30	122.5 (3)	H33D—C33B—H33E	109.5
C29—N2—C30	117.0 (2)	N3B—C33B—H33F	109.5
C34—N4—C35	120.0 (3)	H33D—C33B—H33F	109.5
C34—N4—C36	121.4 (3)	H33E—C33B—H33F	109.5
C35—N4—C36	118.6 (3)	O16—C34—N4	124.0 (3)
02—C1—O1	126.7 (2)	O16—C34—H34	118.0
02-C1-C2	116.5 (2)	N4—C34—H34	118.0
01	116.9 (2)	N4—C35—H35A	109.5
$C_{3}-C_{2}-C_{7}$	119.2 (2)	N4—C35—H35B	109.5
$C_{3}$ $-C_{2}$ $-C_{1}$	122.4 (2)	H35A—C35—H35B	109.5
C7-C2-C1	118 4 (2)	N4—C35—H35C	109.5
$C^2 - C^3 - C^4$	120.3(2)	H35A-C35-H35C	109.5
$C_2 = C_3 = H_3$	119.9	H35B-C35-H35C	109.5
$C_4 - C_3 - H_3$	119.9	N4_C36_H36A	109.5
$C_{5} - C_{4} - C_{3}$	120 1 (2)	N4—C36—H36B	109.5
$C_{5}$ $C_{4}$ $H_{4}$	110.0	H364_C36_H36B	109.5
$C_3 - C_4 - H_4$	119.9	N4-C36-H36C	109.5
C6-C5-C4	119.9	$H_{364} = C_{36} = H_{36C}$	109.5
C6-C5-C8	119.4 (2)	H36B_C36_H36C	109.5
$C_{4}$ $C_{5}$ $C_{8}$	119.3(2) 121.2(2)	11500 - 050 - 11500	109.5
64-63-68	121.2 (2)		
$\Omega_1 - M_{\sigma_1} - M_{\sigma_2} - \Omega_6$	-98.15(9)	09 - Mg1 - 013 - C25	53.0(3)
013 - Mg1 - Mg2 = 00	-100.7(3)	C17 - Mg1 - O13 - C25	61.3(3)
05-Mg1-Mg2-06	3 81 (8)	Mg2 - Mg1 - 013 - C25	-374(5)
014 - Mg1 - Mg2 = 00	84 97 (9)	Mg2 Mg1 - 015 C25	1521(2)
010 - Mg1 - Mg2 - 00	126 44 (11)	015 - Mg1 - 014 - 028	45.6(2)
09 - Mg1 - Mg2 - 06	167 24 (8)	010 - Mg1 - 014 - 028	-502(2)
$C_17$ Mg1 Mg2 $C_6$	150.00 (0)	00 Mg1 014 C28	-1108(2)
$\Omega_1 = Mg_1 = Mg_2 = O_0^{i}$	150.99 (9) 81 68 (0)	$C_{17} M_{g1} = 0.14 C_{28}$	-80.8(2)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	70 1 (2)	$M_{a2} = M_{a1} = 014 = 028$	-20.3(2)
$013 - Mg1 - Mg2 - 03^{i}$	-176.36(0)	Mg2 - Mg1 - 014 - 020	29.3(2)
03 - Mg1 - Mg2 - 03	-05.20(9)	04 - Mg3 - 016 - C34	101.4(3)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-53.20(9)	$0.5 \text{ Mg}_{3} = 0.16 \text{ C}_{34}$	-173.0(3)
$00 \text{ Mg1} \text{ Mg2} \text{ O3}^{i}$	-12.02(0)	015 - Mg3 - 016 - 000	-164.8(11)
$C_{17} M_{g1} M_{g2} - C_{3i}$	-20.18(0)	013B - Mg3 - 016 - 034	-109.0(3)
C1/-Mg1-Mg2-O3	29.18 (9)	012 - Mg3 - 010 - C34	-97.2(3)
O1 - Mg1 - Mg2 - O2	0.12 (9) 5.5 (2)	$C_{11} = M_{23} = 0.16 = 0.24$	-67.3(3)
013 - Mg1 - Mg2 - 02	3.3(3)	$M_{2} = M_{2} = 016 - 024$	-93.3(3)
03 - Mg1 - Mg2 - 02	110.07 (9)	Mg2 - Mg3 - O10 - C34	22.7 (4)
$M_{14} - M_{12} - M_{12} - M_{22} - M_{22}$	-108.77(9)	$M_{2} = 02 = 01 = 01$	13.8(3)
$M_{10} - M_{10} = M_{10} - M_{10} = 02$	-12/.30(11)	Mg2 - 02 - 01 - 02	-165.9(2)
Mg1 - Mg2 - O2	-80.30(8)	Mg1 = 01 = C1 = C2	4.5 (4)
$C_1$ /Mg1Mg2O2	-102.74 (9)	Mg1 - U1 - U1 - U2	-1/5.96(1/)
U1 - Mg1 - Mg2 - U''	-1/2.71(9)	02-01-02-03	163.9 (3)
$O13$ —Mg1—Mg2— $O7^n$	-175.3 (3)	O1-C1-C2-C3	-15.9 (4)

O5—Mg1—Mg2—O7 <sup>ii</sup>	-70.76 (9)	O2—C1—C2—C7	-15.3 (4)
O14—Mg1—Mg2—O7 <sup>ii</sup>	10.41 (10)	O1—C1—C2—C7	164.9 (3)
O10—Mg1—Mg2—O7 <sup>ii</sup>	51.87 (11)	C7—C2—C3—C4	2.5 (4)
O9—Mg1—Mg2—O7 <sup>ii</sup>	92.68 (8)	C1—C2—C3—C4	-176.7(3)
$C17$ —Mg1—Mg2— $O7^{ii}$	76.43 (9)	C2—C3—C4—C5	-0.8(4)
$01 - Mg1 - Mg2 - 012^{iii}$	-47.37 (12)	C3—C4—C5—C6	-1.7(4)
$013 - Mg1 - Mg2 - 012^{iii}$	-50.0(3)	$C_{3}$ — $C_{4}$ — $C_{5}$ — $C_{8}$	175.4 (3)
$05 - Mg1 - Mg2 - 012^{iii}$	54 58 (11)	C4-C5-C6-C7	2.5 (5)
014 Mg1 Mg2 $012$	135 75 (11)	$C_{8} - C_{5} - C_{6} - C_{7}$	-174.6(3)
$010 - Mg1 - Mg2 - 012^{iii}$	177 21 (14)	$C_{5} - C_{6} - C_{7} - C_{2}^{2}$	-0.8(6)
09 - Mg1 - Mg2 - 012	-141.99(11)	$C_{3} - C_{7} - C_{6}$	-1.7(5)
$C_{17} M_{g1} M_{g2} O_{12}^{iii}$	-15823(12)	$C_1 - C_2 - C_7 - C_6$	1775(3)
$\Omega_1 - Mg_1 - Mg_2 - \Omega_10$	135.23(12) 135.42(11)	$M_{\alpha}2^{iv}$ 03 08 04	-342(4)
013 - Mg1 - Mg2 - 010	133.42(11) 132.8(3)	$Mg2^{iv}$ 03 08 04	144.0(2)
$O_5 Mg_1 Mg_2 O_10$	-122.6(3)	$Mg2 = -05 = C6 = C5$ $Mg2^{iv} = 04 = C8 = 03$	24.5(4)
$O_{14}$ Mg1 Mg2 $O_{10}$	-41.47(11)	Mg3 = 04 = 03 = 03	-15363(18)
014 - Mg1 - Mg2 - 010	41.47 (11)	$Mg_{3} = 04 = 03 = 03$	133.03(18)
$G_{17} M_{r1} M_{r2} O_{10}$	40.80(10)	$C_{0} = C_{3} = C_{8} = O_{3}$	2.9 (4)
C1/-Mg1-Mg2-O10	24.56 (11)	C4 - C5 - C8 - O3	-1/4.2(3)
06—Mg2—Mg3—016	-100.1(2)	C6-C5-C8-O4	-1/8.8(3)
03 <sup>4</sup> —Mg2—Mg3—016	80.0 (2)	C4—C5—C8—O4	4.1 (4)
02—Mg2—Mg3—016	155.4 (2)	Mg2—06—C9—05	39.7 (5)
O7 <sup>n</sup> —Mg2—Mg3—O16	-23.9 (2)	Mg2—O6—C9—C10	-138.9 (2)
O12 <sup>III</sup> —Mg2—Mg3—O16	-153.1 (3)	Mg1	-24.4 (4)
O10—Mg2—Mg3—O16	23.7 (3)	Mg1—O5—C9—C10	154.17 (18)
O6—Mg2—Mg3—O4 <sup>i</sup>	177.61 (9)	O6—C9—C10—C15	10.5 (4)
$O3^{i}$ —Mg2—Mg3—O4 <sup>i</sup>	-2.25 (8)	O5—C9—C10—C15	-168.1 (3)
O2—Mg2—Mg3—O4 <sup>i</sup>	73.09 (9)	O6—C9—C10—C11	-171.5 (2)
O7 <sup>ii</sup> —Mg2—Mg3—O4 <sup>i</sup>	-106.16 (9)	O5-C9-C10-C11	9.8 (4)
O12 <sup>iii</sup> —Mg2—Mg3—O4 <sup>i</sup>	124.63 (11)	C15—C10—C11—C12	0.2 (4)
O10-Mg2-Mg3-O4 <sup>i</sup>	-58.60 (13)	C9-C10-C11-C12	-177.7 (3)
O6—Mg2—Mg3—O8 <sup>ii</sup>	-81.45 (9)	C10-C11-C12-C13	1.4 (4)
O3 <sup>i</sup> —Mg2—Mg3—O8 <sup>ii</sup>	98.69 (9)	C11-C12-C13-C14	-2.1 (4)
O2—Mg2—Mg3—O8 <sup>ii</sup>	174.04 (9)	C11—C12—C13—C16	178.1 (3)
O7 <sup>ii</sup> —Mg2—Mg3—O8 <sup>ii</sup>	-5.22 (8)	C12—C13—C14—C15	1.3 (5)
O12 <sup>iii</sup> —Mg2—Mg3—O8 <sup>ii</sup>	-134.43 (11)	C16-C13-C14-C15	-178.9 (3)
O10—Mg2—Mg3—O8 <sup>ii</sup>	42.34 (13)	C11—C10—C15—C14	-1.0 (4)
O6—Mg2—Mg3—O15	96.60 (11)	C9-C10-C15-C14	177.0 (3)
O3 <sup>i</sup> —Mg2—Mg3—O15	-83.26 (11)	C13—C14—C15—C10	0.3 (5)
O2—Mg2—Mg3—O15	-7.92 (12)	Mg2 <sup>v</sup>	-9.1 (5)
O7 <sup>ii</sup> —Mg2—Mg3—O15	172.82 (11)	Mg2 <sup>v</sup> —O7—C16—C13	170.08 (19)
O12 <sup>iii</sup> —Mg2—Mg3—O15	43.62 (12)	Mg3 <sup>v</sup> —O8—C16—O7	-2.5(4)
O10—Mg2—Mg3—O15	-139.61 (14)	Mg <sup>3</sup> <sup>v</sup> —O8—C16—C13	178.32 (17)
06—Mg2—Mg3—015B	88.2 (12)	C14-C13-C16-07	6.4 (4)
Mg2 - Mg3 - O15B	-91.7(12)	C12-C13-C16-O7	-173.8(2)
$\Omega_2$ —Mg2—Mg3— $\Omega_15B$	-16.3(12)	C14—C13—C16—O8	-174.4(3)
$07^{ii}$ Mg2 Mg3 $015B$	164.4 (12)	$C_{12}$ $C_{13}$ $C_{16}$ $C_{08}$	5.4 (4)
$012^{iii}$ Mg2 Mg3 $015B$	35 2 (12)	Mg1-09-C17-010	79(2)
$010 - M\sigma^2 - M\sigma^3 - 015B$	-1480(12)	Mg109C17C18	-1691(2)
010 1162 1163 0130	10.0 (14)		107.1 (4)

O6—Mg2—Mg3—O12 <sup>iii</sup>	52.98 (11)	Mg2-010-C17-09	114.6 (2)
O3 <sup>i</sup> —Mg2—Mg3—O12 <sup>iii</sup>	-126.88 (11)	Mg1—O10—C17—O9	-8.1 (2)
O2—Mg2—Mg3—O12 <sup>iii</sup>	-51.54 (11)	Mg2—O10—C17—C18	-68.3 (3)
O7 <sup>ii</sup> —Mg2—Mg3—O12 <sup>iii</sup>	129.21 (11)	Mg1—O10—C17—C18	168.96 (19)
O10—Mg2—Mg3—O12 <sup>iii</sup>	176.77 (15)	Mg2—O10—C17—Mg1	122.78 (19)
O6—Mg2—Mg3—O11 <sup>iii</sup>	12.28 (8)	01—Mg1—C17—O9	79.45 (15)
O3 <sup>i</sup> —Mg2—Mg3—O11 <sup>iii</sup>	-167.58 (8)	O13—Mg1—C17—O9	-16.80 (18)
O2—Mg2—Mg3—O11 <sup>iii</sup>	-92.23 (9)	O5—Mg1—C17—O9	-173.53 (14)
O7 <sup>ii</sup> —Mg2—Mg3—O11 <sup>iii</sup>	88.51 (8)	O14—Mg1—C17—O9	-93.78 (15)
O12 <sup>iii</sup> —Mg2—Mg3—O11 <sup>iii</sup>	-40.70 (10)	O10—Mg1—C17—O9	172.0 (2)
O10—Mg2—Mg3—O11 <sup>iii</sup>	136.07 (12)	Mg2—Mg1—C17—O9	146.06 (16)
O6—Mg2—Mg3—C24 <sup>iii</sup>	28.17 (9)	O1—Mg1—C17—O10	-92.53 (14)
$O3^{i}$ —Mg2—Mg3—C24 <sup>iii</sup>	-151.69 (9)	O13—Mg1—C17—O10	171.22 (13)
O2—Mg2—Mg3—C24 <sup>iii</sup>	-76.35 (10)	O5—Mg1—C17—O10	14.49 (17)
$07^{ii}$ —Mg2—Mg3—C24 <sup>iii</sup>	104.40 (9)	O14—Mg1—C17—O10	94.24 (14)
O12 <sup>iii</sup> —Mg2—Mg3—C24 <sup>iii</sup>	-24.81 (11)	O9—Mg1—C17—O10	-172.0(2)
010—Mg2—Mg3—C24 <sup>iii</sup>	151.96 (13)	Mg2—Mg1—C17—O10	-25.92(11)
013 - Mg1 - 01 - C1	170.4 (2)	09-C17-C18-C23	156.9 (2)
05-Mg1-O1-C1	-83.5(2)	010-017-018-023	-20.2(3)
010 Mg1 $-01$ $-C1$	135(2)	09-C17-C18-C19	-21.0(4)
09-Mg1-01-C1	73.9 (2)	010-017-018-019	162.0(2)
C17 - Mg1 - O1 - C1	44 5 (2)	$C_{23}$ $C_{18}$ $C_{19}$ $C_{20}$	0.8(4)
Mg2-Mg1-O1-C1	-8.9(2)	C17 - C18 - C19 - C20	178.6 (2)
$06-Mg^2-02-C1$	45.6 (3)	C18 - C19 - C20 - C21	-0.7(4)
$O_{3^{i}} Mg_{2} O_{2} C_{1}$	-135.8(3)	C19 - C20 - C21 - C22	0.3 (4)
$012^{iii}$ Mg2 $02^{-01}$	136.3 (3)	C19 - C20 - C21 - C24	177.0(2)
010 - Mg2 - 02 - C1	-40.9(3)	$C_{20}$ $C_{21}$ $C_{22}$ $C_{23}$	0.1 (4)
Mg1-Mg2-O2-C1	-14.6(3)	$C_{24}$ $C_{21}$ $C_{22}$ $C_{23}$	-176.6(2)
01 - Mg1 - 05 - C9	81.0 (2)	C19-C18-C23-C22	-0.4(4)
013 - Mg1 - 05 - C9	172.94 (19)	C17-C18-C23-C22	-178.2(2)
014 - Mg1 - 05 - C9	-104.2(2)	$C_{21}$ $C_{22}$ $C_{23}$ $C_{18}$	-0.1(4)
010—Mg1—05—C9	-19.3 (2)	Mg3 <sup>vi</sup> —O11—C24—O12	-7.1 (2)
O9-Mg1-O5-C9	-34.2(3)	$Mg3^{vi}$ —O11—C24—C21	168.6 (2)
C17—Mg1—O5—C9	-26.6(2)	$Mg2^{vi}$ —012—C24—011	-115.2(2)
Mg2-Mg1-O5-C9	7.69 (18)	$Mg3^{vi}$ —012—C24—011	7.2 (2)
$\Omega_2$ —Mg2— $\Omega_6$ — $\Omega_9$	-85.1 (3)	$Mg2^{vi}$ 012 C24 C21	69.0 (3)
$07^{ii}$ Mg2 $06$ $07$	93.4 (3)	$Mg3^{vi}$ — $O12$ — $C24$ — $C21$	-168.5(2)
$012^{iii}$ Mg2 $-06$ $-C9$	-176.3(3)	$Mg2^{vi}$ $O12$ $C24$ $Mg3^{vi}$	-122.45(19)
010 - Mg2 - 06 - C9	3.1 (3)	$C_{20}$ $C_{21}$ $C_{24}$ $C$	-156.0(2)
Mg3-Mg2-O6-C9	157.5 (3)	$C_{22}$ $C_{21}$ $C_{24}$ $O_{11}$	20.7 (4)
Mg1 - Mg2 - O6 - C9	-235(3)	$C_{20}$ $C_{21}$ $C_{24}$ $C_{12}$	197(4)
01 - Mg1 - 09 - C17	-10377(15)	$C_{22} = C_{21} = C_{24} = 012$	-1636(2)
013 - Mg1 - 09 - C17	166 29 (15)	$C_{20}$ $C_{21}$ $C_{24}$ $M_{\sigma 3^{vi}}$	-590(12)
05 - Mg1 - 09 - C17	125(3)	$C_{22} = C_{21} = C_{24} = M_{g3}^{v_i}$	117.7(10)
014 - Mg1 - 09 - C17	82.75 (15)	Mg1-Q13-C25-N1	-119.3 (3)
010 - Mg1 - 09 - C17	-4.69 (13)	$C_{26} N_{1} C_{25} O_{13}$	-2.7(4)
Mg2— $Mg1$ — $O9$ — $C17$	-28.45(13)	$C_{27} = N_1 = C_{25} = O_{13}$	-176.8(3)
$06-Mg^2-010-C17$	-1599(2)	Mg1-Q14-C28-N2	-1669(2)
00 11162 010 017			100.9 (2)

O3 <sup>i</sup> —Mg2—O10—C17	20.6 (2)	C29—N2—C28—O14	0.9 (5)
O2-Mg2-O10-C17	-66.5 (2)	C30-N2-C28-O14	-179.0 (3)
O7 <sup>ii</sup> —Mg2—O10—C17	113.4 (2)	O16—Mg3—O15—C31	-153.7 (3)
Mg3—Mg2—O10—C17	70.4 (3)	O4 <sup>i</sup> —Mg3—O15—C31	-52.5 (3)
Mg1-Mg2-O10-C17	-113.2 (2)	O15B—Mg3—O15—C31	157 (8)
O6—Mg2—O10—Mg1	-46.69 (9)	O12 <sup>iii</sup> —Mg3—O15—C31	43.2 (3)
O3 <sup>i</sup> —Mg2—O10—Mg1	133.84 (9)	O11 <sup>iii</sup> —Mg3—O15—C31	104.3 (3)
O2-Mg2-O10-Mg1	46.74 (10)	C24 <sup>iii</sup> —Mg3—O15—C31	74.3 (3)
O7 <sup>ii</sup> —Mg2—O10—Mg1	-133.39 (9)	Mg2—Mg3—O15—C31	21.6 (3)
Mg3—Mg2—O10—Mg1	-176.40 (6)	Mg3—O15—C31—N3	172.7 (3)
O1-Mg1-O10-C17	92.63 (14)	O15—C31—N3—C33	0.0 (6)
O13—Mg1—O10—C17	-17.4 (3)	O15—C31—N3—C32	175.8 (4)
O5-Mg1-O10-C17	-168.17 (14)	O16—Mg3—O15B—C31B	-109 (4)
O14—Mg1—O10—C17	-82.30 (14)	O4 <sup>i</sup> —Mg3—O15B—C31B	-9 (4)
O9-Mg1-O10-C17	4.59 (13)	O8 <sup>ii</sup> —Mg3—O15B—C31B	-152 (3)
Mg2—Mg1—O10—C17	136.21 (17)	O15—Mg3—O15B—C31B	21 (5)
O1—Mg1—O10—Mg2	-43.59 (10)	O12 <sup>iii</sup> —Mg3—O15B—C31B	87 (4)
O13—Mg1—O10—Mg2	-153.57 (16)	O11 <sup>iii</sup> —Mg3—O15B—C31B	147 (5)
O5—Mg1—O10—Mg2	55.62 (10)	C24 <sup>iii</sup> —Mg3—O15B—C31B	117 (4)
O14—Mg1—O10—Mg2	141.49 (10)	Mg2—Mg3—O15B—C31B	69 (5)
O9—Mg1—O10—Mg2	-131.63 (11)	Mg3—O15B—C31B—N3B	-117 (5)
C17—Mg1—O10—Mg2	-136.21 (17)	O15B—C31B—N3B—C33B	178 (5)
O1-Mg1-O13-C25	-39.9 (3)	O15B—C31B—N3B—C32B	15 (7)
O5-Mg1-O13-C25	-138.3 (2)	Mg3—O16—C34—N4	-108.5 (3)
O14—Mg1—O13—C25	137.2 (3)	C35—N4—C34—O16	-1.6 (5)
O10-Mg1-O13-C25	72.1 (3)	C36—N4—C34—O16	-179.3 (3)

Symmetry codes: (i) -*x*+1, *y*+1/2, -*z*+1/2; (ii) -*x*, *y*+1/2, -*z*+1/2; (iii) *x*, *y*-1, *z*; (iv) -*x*+1, *y*-1/2, -*z*+1/2; (v) -*x*, *y*-1/2, -*z*+1/2; (vi) *x*, *y*+1, *z*.