

## Retraction of articles

This article reports the retraction of articles published in *Acta Crystallographica Section E* between 2005 and 2009.

After further thorough investigation (see Harrison *et al.*, 2010), articles are retracted as a result of problems with the data sets or incorrect atom assignments. Full details of all the articles are given in Table 1.

Table 1

Details of articles to be retracted, in order of publication.

Title	Reference	DOI	Refcode
<i>Poly[diuaquadi-<math>\mu_3</math>-malonato-<math>\mu</math>-pyrazine-dinickel(II)] catena-Poly[[[diaqua(6-carboxypyridine-2-carboxylato)samarium(II)]-<math>\mu</math>-pyridine-2,6-dicarboxylato] tetrahydrate]</i>	Liu <i>et al.</i> (2005) Liu <i>et al.</i> (2006)	10.1107/S1600536805026358 10.1107/S1600536806038141	GATWAA FONCUH03
<i>Poly[[[<math>\mu_4</math>-4,4'-carbonylbis(benzene-3,4-dicarboxylato)]tetrakis(1,10-phenanthroline)-dipalladium(II)] dihydrate]</i>	Li, Wang, Zhang & Yu (2007e)	10.1107/S1600536807039050	AFELAZ
<i>Poly[diuaqua-<math>\mu_3</math>-malonato-<math>\mu</math>-pyrazine-diiron(II)]</i>	Li, Liu <i>et al.</i> (2007)	10.1107/S1600536807038743	AFELON
<i>Poly[diuaqua-di-<math>\mu_3</math>-malonato-<math>\mu</math>-pyrazine-dimanganese(II)]</i>	Li, Wang, Zhang & Yu (2007f)	10.1107/S1600536807039773	VIJZAO
<i>Poly[[aqua(2,2-bipyridine)(<math>\mu_3</math>-pyridine-3,4-dicarboxylato)cobalt(II)] monohydrate]</i>	Li, Wang, Zhang & Yu (2007g)	10.1107/S1600536807040275	VIKIC
<i>catena-Poly[[[diaqua(6-carboxypyridine-2-carboxylato)holmium(III)]-<math>\mu</math>-pyridine-2,6-dicarboxylato] tetrahydrate]</i>	Li, Wang, Zhang & Yu (2007a)	10.1107/S1600536807041657	DILGEL
<i>catena-Poly[[[2,2'-bipyridine-<math>\kappa^2</math>N,N']iron(II)]-<math>\mu</math>-5-carboxy-4-carboxylatoimidazol-1-ido-<math>\kappa^4</math>N<sup>3</sup>,O<sup>4</sup>:N<sup>1</sup>,O<sup>2</sup>]</i>	Li, Wang, Zhang & Yu (2007h)	10.1107/S1600536807042122	XIKWAO
<i>Poly[[aqua(2,2'-bipyridine)(<math>\mu_3</math>-pyridine-3,4-dicarboxylato)nickel(II)] monohydrate]</i>	Li, Wang, Zhang & Yu (2007b)	10.1107/S1600536807046466	LEVZAO01
<i>2-(Benzyliminomethyl)-6-methoxyphenol</i>	Li, Wang, Zhang & Yu (2007i)	10.1107/S1600536807042134	SILDEX
<i>Poly[aqua(2,2'-bipyridine)(<math>\mu_3</math>-pyridine-2,4-dicarboxylato)palladium(II)]</i>	Li, Wang, Zhang & Yu (2007c)	10.1107/S1600536807047575	SILXAN
<i><math>\mu</math>-Oxido-bis[chlorido[tris(2-pyridylmethyl)amine]iron(III)] bis(hexafluoridophosphate)</i>	Liu, Dou, Li & Zhang (2007)	10.1107/S1600536807049665	TINRIS
<i><math>\mu</math>-Oxido-bis[(4,4'-dibromo-2,2'-[ethane-1,2-diylbis(nitrilomethylidyne)]diphenolato)-manganese(III)]</i>	Liu, Dou, Niu & Zhang (2007a)	10.1107/S1600536807051008	GIMZAE
<i>Bis[N-(8-quinolyl)pyridine-2-carboxamidato]iron(III) perchlorate monohydrate</i>	Li, Wang, Zhang & Yu (2007d)	10.1107/S1600536807048556	WIMZIC
<i><math>\mu</math>-Oxido-bis[(4,4'-dibromo-2,2'-[ethane-1,2-diylbis(nitrilomethylidyne)]diphenolato)-chromium(III)]</i>	Liu, Dou, Niu & Zhang (2007b)	10.1107/S1600536807057996	HIOFIX
<i><math>\mu</math>-Oxido-bis[chlorido[tris(2-pyridylmethyl)amine]chromium(III)] bis(hexafluoridophosphate)</i>	Li, Wang <i>et al.</i> (2008)	10.1107/S1600536807061296	MIRNAD
<i><math>\mu</math>-Oxido-bis[(4,4'-dibromo-2,2'-[ethane-1,2-diylbis(nitrilomethylidyne)]diphenolato)-iron(III)]</i>	Meng <i>et al.</i> (2008a)	10.1107/S1600536807063143	MIRWUG
<i>catena-Poly[[bis(1H-benzimidazole-<math>\kappa</math>N<sup>3</sup>)palladium(II)]-<math>\mu</math>-benzene-1,4-dicarboxylato-<math>\kappa^2</math>O<sup>1</sup>:O<sup>2</sup>]</i>	Meng <i>et al.</i> (2008b)	10.1107/S1600536807065051	XISCAE
<i>Oxalato-bis(propene-1,3-diamine)manganese(II) chloride monohydrate</i>	Meng <i>et al.</i> (2008e)	10.1107/S1600536807065361	SISWIB
<i><math>\mu</math>-Oxido-bis[chlorido[tris(2-pyridylmethyl)amine]manganese(III)] bis(hexafluoridophosphate)</i>	Meng <i>et al.</i> (2008c)	10.1107/S1600536807066512	RISRIV
<i>Bis[N-(8-quinolyl)pyridine-2-carboxamidato-<math>\kappa^3</math>N,N',N''manganese(III)] perchlorate monohydrate</i>	Meng <i>et al.</i> (2008d)	10.1107/S1600536808000287	GISLEA
<i>Diaquabis(pyridine-2-carboxylato-<math>\kappa^2</math>N,O)cobalt(II)</i>	Huang (2008)	10.1107/S1600536808010507	WIZPOL
<i>Tetra-<math>\mu</math>-2,5-difluorobenzoato-bis[(2,2'-bipyridine)(2,5-difluorobenzoato)gadolinium(III)]</i>	Li, Zhang <i>et al.</i> (2008)	10.1107/S1600536808023507	BOFQIX
<i>catena-Poly[[[2,2'-bipyridine-<math>\kappa^2</math>N,N']nickel(II)]-<math>\mu</math>-oxalato-<math>\kappa^4</math>O<sup>1</sup>,O<sup>2</sup>:O<sup>1</sup>,O<sup>2</sup>]</i>	Li, Yan <i>et al.</i> (2008)	10.1107/S1600536808028389	NOHYUF
<i>catena-Poly[[aqua(2,2'-bipyridyl)cobalt(II)]-<math>\mu</math>-5-nitrosophthalalato]</i>	Liu <i>et al.</i> (2008)	10.1107/S1600536808038178	AFIREN
<i>Diaquabis(pyridine-2-carboxylato-<math>\kappa^2</math>N,O)iron(II)</i>	Xia & Sun (2009)	10.1107/S1600536809005765	RONFEG
<i>catena-Poly[[[diaquathulium(III)]-<math>\mu</math>-6-carboxynicotinato-<math>\mu</math>-pyridine-2,5-dicarboxylato] dihydrate]</i>	Li <i>et al.</i> (2009)	10.1107/S1600536809008836	NOQNIR
<i>1-Phenyl-3-(2,4,6-trimethoxyphenyl)prop-2-en-1-one</i>	Liu <i>et al.</i> (2009)	10.1107/S1600536809040227	PUGLOT

## References

- Harrison, W. T. A., Simpson, J. & Weil, M. (2010). *Acta Cryst.* **E66**, e1–e2.
- Huang, G. S. (2008). *Acta Cryst.* **E64**, m685–m686.
- Li, S., Chen, Y., He, H.-M. & Ma, Y.-F. (2009). *Acta Cryst.* **E65**, m411.
- Li, S., Wang, S.-B., Zhang, F.-L. & Tang, K. (2008). *Acta Cryst.* **E64**, m2.
- Li, S., Yan, X.-L., Wang, S.-B. & Ma, Y.-F. (2008). *Acta Cryst.* **E64**, m1258.
- Li, S., Zhang, F.-L., Tang, K. & Ma, Y.-F. (2008). *Acta Cryst.* **E64**, m1142.
- Li, Z., Wang, S., Zhang, Q. & Yu, X. (2007a). *Acta Cryst.* **E63**, m2438–m2439.
- Li, Z., Wang, S., Zhang, Q. & Yu, X. (2007b). *Acta Cryst.* **E63**, m2604.
- Li, Z., Wang, S., Zhang, Q. & Yu, X. (2007c). *Acta Cryst.* **E63**, m2642.
- Li, Z., Wang, S., Zhang, Q. & Yu, X. (2007d). *Acta Cryst.* **E63**, m2781.
- Li, Z.-F., Liu, Y., Zhang, Q. & Yu, X.-J. (2007). *Acta Cryst.* **E63**, m2315.
- Li, Z.-F., Wang, S.-W., Zhang, Q. & Yu, X.-J. (2007e). *Acta Cryst.* **E63**, m2312.
- Li, Z.-F., Wang, S.-W., Zhang, Q. & Yu, X.-J. (2007f). *Acta Cryst.* **E63**, m2360.
- Li, Z.-F., Wang, S.-W., Zhang, Q. & Yu, X.-J. (2007g). *Acta Cryst.* **E63**, m2373.
- Li, Z.-F., Wang, S.-W., Zhang, Q. & Yu, X.-J. (2007h). *Acta Cryst.* **E63**, m2445.
- Li, Z.-F., Wang, S.-W., Zhang, Q. & Yu, X.-J. (2007i). *Acta Cryst.* **E63**, o3930.
- Liu, Y., Dou, J., Li, D. & Zhang, X. (2007). *Acta Cryst.* **E63**, m2722.
- Liu, Y., Dou, J., Niu, M. & Zhang, X. (2007a). *Acta Cryst.* **E63**, m2771.
- Liu, Y., Dou, J., Niu, M. & Zhang, X. (2007b). *Acta Cryst.* **E63**, m3032.
- Liu, Y., Dou, J., Wang, D., Ma, G. & Li, D. (2005). *Acta Cryst.* **E61**, m1834–m1836.
- Liu, Y., Dou, J.-M., Wang, D.-Q., Zhang, X.-X. & Zhou, L. (2006). *Acta Cryst.* **E62**, m2794–m2795.
- Liu, Y., He, Q., Zhang, X., Xue, Z. & Lv, C. (2008). *Acta Cryst.* **E64**, m1605–m1606.
- Liu, Y., Zhang, X., Xue, Z. & Lv, C. (2009). *Acta Cryst.* **E65**, o2724.
- Meng, Q., Wang, L., Liu, Y. & Pang, Y. (2008a). *Acta Cryst.* **E64**, m63.
- Meng, Q., Wang, L., Liu, Y. & Pang, Y. (2008b). *Acta Cryst.* **E64**, m133.
- Meng, Q., Wang, L., Liu, Y. & Pang, Y. (2008c). *Acta Cryst.* **E64**, m204.
- Meng, Q., Wang, L., Liu, Y. & Pang, Y. (2008d). *Acta Cryst.* **E64**, m332.
- Meng, Q.-G., Wang, L.-T., Liu, Y.-Z. & Pang, Y. (2008e). *Acta Cryst.* **E64**, m170–m171.
- Xia, G. & Sun, Z. (2009). *Acta Cryst.* **E65**, m315–m316.

## $\mu$ -Oxido-bis({4,4'-dibromo-2,2'-ethane-1,2-diylbis(nitrilomethylidene)-diphenolato}iron(III))

Qingguo Meng,\* Lintong Wang, Yanzhen Liu and Yan Pang

College of Chemistry and Chemical Engineering, Weifang University, Weifang, 261061, People's Republic of China

Correspondence e-mail: qgmeng\_weifang@yahoo.cn

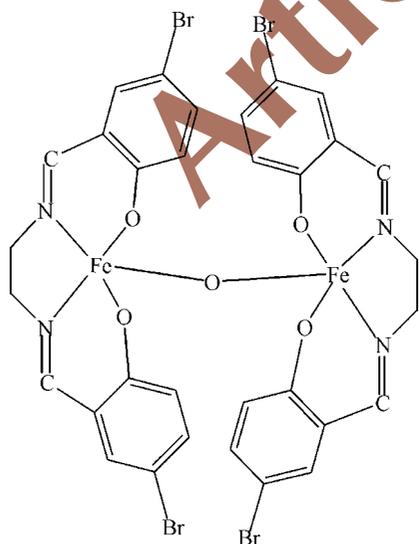
Received 8 November 2007; accepted 25 November 2007

Key indicators: single-crystal X-ray study;  $T = 293$  K; mean  $\sigma(\text{C}-\text{C}) = 0.008$  Å;  $R$  factor = 0.059;  $wR$  factor = 0.147; data-to-parameter ratio = 14.9.

In the title compound,  $[\text{Fe}_2(\text{C}_{16}\text{H}_{12}\text{Br}_2\text{N}_2\text{O}_2)_2\text{O}]$ , the complete molecule is generated by twofold symmetry, with the bridging O atom, which links the iron centres, lying on the rotation axis. The Fe(III) ion is chelated by the  $N,N,O,O$ -tetradentate Schiff base dianion, resulting in an  $\text{FeN}_2\text{O}_3$  square-based pyramid, with the two N atoms in the basal plane.

### Related literature

For related literature, see: Karacan & Somer (2004); Chen *et al.* (2006).



### Experimental

#### Crystal data

$[\text{Fe}_2(\text{C}_{16}\text{H}_{12}\text{Br}_2\text{N}_2\text{O}_2)_2\text{O}]$	$V = 3486.3$ (7) Å <sup>3</sup>
$M_r = 975.89$	$Z = 4$
Orthorhombic, $Pcca$	Mo $K\alpha$ radiation
$a = 21.094$ (2) Å	$\mu = 5.46$ mm <sup>-1</sup>
$b = 13.8168$ (18) Å	$T = 293$ (2) K
$c = 11.9619$ (12) Å	$0.43 \times 0.28 \times 0.22$ mm

#### Data collection

Bruker APEXII CCD diffractometer	11548 measured reflections
Absorption correction: multi-scan (SADABS; Bruker, 2001)	3182 independent reflections
$T_{\min} = 0.202$ , $T_{\max} = 0.380$	2257 reflections with $I > 2\sigma(I)$
(expected range = 0.160–0.301)	$R_{\text{int}} = 0.049$

#### Refinement

$R[F^2 > 2\sigma(F^2)] = 0.059$	213 parameters
$wR(F^2) = 0.147$	H atom parameters constrained
$S = 1.00$	$\Delta\rho_{\text{max}} = 1.05$ e Å <sup>-3</sup>
3182 reflections	$\Delta\rho_{\text{min}} = -0.70$ e Å <sup>-3</sup>

Table 1

Selected geometric parameters (Å, °).

Fe1—O3	1.8162 (18)	Fe1—N2	2.116 (4)
Fe1—O2	1.926 (4)	Fe1—N1	2.141 (4)
Fe1—O1	1.930 (4)		
Fe1 <sup>i</sup> —O3—Fe1	139.4 (3)		

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

Data collection: APEX2 (Bruker, 2004); cell refinement: SAINT-Plus (Bruker, 2001); data reduction: SAINT-Plus; program(s) used to solve structure: SHELXS97 (Sheldrick, 1997); program(s) used to refine structure: SHELXL97 (Sheldrick, 1997); molecular graphics: SHELXTL (Bruker, 2001); software used to prepare material for publication: SHELXTL.

The authors thank Liaocheng University for financial support and Professor Jianmin Dou for his help.

Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: HB2647).

### References

- Bruker (2001). SAINT-Plus and SHELXTL. Bruker AXS Inc., Madison, Wisconsin, USA.
- Bruker (2004). APEX2. Bruker AXS Inc., Madison, Wisconsin, USA.
- Chen, P., Fan, B. B., Song, M. G., Jin, C., Ma, J. H. & Li, R. F. (2006). *Catal. Commun.* **7**, 969–973.
- Karacan, M. S. & Somer, G. J. (2004). *Photochem. Photobiol. A Chem.* **163**, 307–310.
- Sheldrick, G. M. (1997). SHELXL97 and SHELXS97. University of Göttingen, Germany.

## supporting information

*Acta Cryst.* (2008). E64, m63 [https://doi.org/10.1107/S1600536807063143]

**$\mu$ -Oxido-bis({4,4'-dibromo-2,2'-ethane-1,2-diylbis(nitrilomethylidyne)]diphenolato}iron(III))**

**Qingguo Meng, Lintong Wang, Yanzhen Liu and Yan Pang**

### S1. Comment

Recently, Schiff base ligands, especially flexible symmetrical or unsymmetrical Schiff base ligands and their hydrogenated derivatives have been widely employed to assembly alkoxo- or phenoxo-bridged manganese clusters and polymers with novel topological structures and interesting magnetic, catalysis and photochemical properties. (Karacan & Somer, 2004; Chen *et al.*, 2006). In this paper, we report the structure of the title compound, (I).

As shown in Fig. 1, the Fe(III) ion in (I) is chelated by the dianionic Schiff base ligand in a tetradentate N,N,O,O coordination in an approximately square planar arrangement. An oxo ligand (site symmetry 2) caps the FeN<sub>2</sub>O<sub>2</sub> grouping to result in a square based pyramid. The oxo ligand also bridges to a second, crystallographically generated Fe atom. The Fe—O capping distance is much shorter than the other bonds (Table 1). The Fe $\cdots$ Fe<sup>i</sup> (i = -x, y, 1/2 - z) distance is 3.4066 (12) Å.

### S2. Experimental

A mixture of iron(III) chloride (1 mmol) and N,N'-bis(2-hydroxy-5-bromobenzyl)ethylenediamine (1 mmol) in 20 ml methanol was refluxed for two hours. The above cooled solution was filtered and the filtrate was evaporated naturally at room temperature. Two days later, brown blocks of (I) were obtained with a yield of 32%. Anal. Calc. for C<sub>32</sub>H<sub>24</sub>Br<sub>4</sub>Fe<sub>2</sub>N<sub>4</sub>O<sub>5</sub>: C 39.34, H 2.46, N 5.74%; Found: C 39.32, H 2.48, N 5.69%.

### S3. Refinement

The H atoms were included in calculated positions (C—H = 0.93–0.97 Å) and refined as riding with  $U_{\text{iso}}(\text{H}) = 1.2U_{\text{eq}}(\text{C})$  or  $1.5U_{\text{eq}}(\text{methyl C})$ .

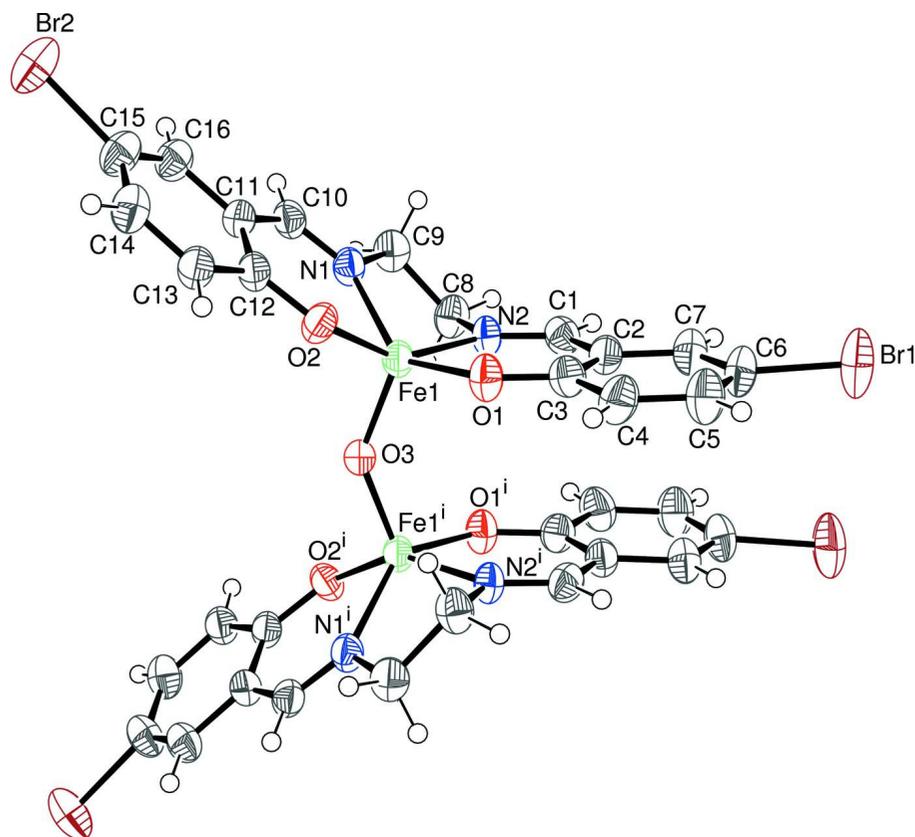


Figure 1

The molecular structure of (I), drawn with 50% probability displacement ellipsoids for the non-hydrogen atoms. Symmetry code: (i)  $-x, y, 1/2 - z$ .

**$\mu$ -Oxido-bis({4,4'-dibromo-2,2'-ethane-1,2-diylnitrilomethylidene}diphenolato)iron(III)**

*Crystal data*

[Fe<sub>2</sub>(C<sub>16</sub>H<sub>12</sub>Br<sub>2</sub>N<sub>2</sub>O<sub>2</sub>)<sub>2</sub>O]

$M_r = 975.89$

Orthorhombic, *Pcca*

Hall symbol:  $-P\ 2a\ 2ac$

$a = 21.094\ (2)\ \text{\AA}$

$b = 13.8168\ (18)\ \text{\AA}$

$c = 11.9619\ (12)\ \text{\AA}$

$V = 3486.3\ (7)\ \text{\AA}^3$

$Z = 4$

$F(000) = 1904$

$D_x = 1.859\ \text{Mg m}^{-3}$

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

Cell parameters from 3182 reflections

$\theta = 3.0\text{--}25.4^\circ$

$\mu = 5.46\ \text{mm}^{-1}$

$T = 293\ \text{K}$

Block, brown

$0.43 \times 0.28 \times 0.22\ \text{mm}$

*Data collection*

Bruker APEX II CCD

diffractometer

Radiation source: fine-focus sealed tube

Graphite monochromator

$\varphi$  and  $\omega$  scans

Absorption correction: multi-scan

(*SADABS*; Bruker, 2001)

$T_{\min} = 0.202, T_{\max} = 0.380$

11548 measured reflections

3182 independent reflections

2257 reflections with  $I > 2\sigma(I)$

$R_{\text{int}} = 0.049$

$\theta_{\max} = 25.4^\circ, \theta_{\min} = 3.0^\circ$

$h = -25 \rightarrow 25$

$k = -16 \rightarrow 16$

$l = 0 \rightarrow 14$

*Refinement*

Refinement on  $F^2$   
 Least-squares matrix: full  
 $R[F^2 > 2\sigma(F^2)] = 0.059$   
 $wR(F^2) = 0.147$   
 $S = 1.00$   
 3182 reflections  
 213 parameters  
 0 restraints  
 Primary atom site location: structure-invariant  
 direct methods

Secondary atom site location: difference Fourier  
 map  
 Hydrogen site location: inferred from  
 neighbouring sites  
 H-atom parameters constrained  
 $w = 1/[\sigma^2(F_o^2) + (0.077P)^2]$   
 where  $P = (F_o^2 + 2F_c^2)/3$   
 $(\Delta/\sigma)_{\max} = 0.018$   
 $\Delta\rho_{\max} = 1.05 \text{ e } \text{\AA}^{-3}$   
 $\Delta\rho_{\min} = -0.70 \text{ e } \text{\AA}^{-3}$

*Special details*

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

**Refinement.** Refinement of  $F^2$  against ALL reflections. The weighted  $R$ -factor  $wR$  and goodness of fit  $S$  are based on  $F^2$ , conventional  $R$ -factors  $R$  are based on  $F$ , with  $F$  set to zero for negative  $F^2$ . The threshold expression of  $F^2 > \sigma(F^2)$  is used only for calculating  $R$ -factors(gt) *etc.* and is not relevant to the choice of reflections for refinement.  $R$ -factors based on  $F^2$  are statistically about twice as large as those based on  $F$ , and  $R$ -factors based on ALL data will be even larger.

*Fractional atomic coordinates and isotropic or equivalent isotropic displacement parameters ( $\text{\AA}^2$ )*

	<i>x</i>	<i>y</i>	<i>z</i>	$U_{\text{iso}}^*/U_{\text{eq}}$
Fe1	0.07194 (4)	0.12987 (5)	0.31467 (6)	0.0342 (2)
Br1	0.10796 (4)	0.66034 (5)	0.24478 (7)	0.0776 (3)
Br2	0.28253 (3)	-0.28115 (5)	0.48690 (6)	0.0663 (3)
C1	0.0405 (3)	0.3280 (4)	0.4134 (4)	0.0404 (13)
H1	0.0230	0.3670	0.4687	0.048*
C2	0.0734 (3)	0.3750 (4)	0.3197 (5)	0.0392 (12)
C3	0.1029 (3)	0.3259 (4)	0.2294 (5)	0.0405 (13)
C4	0.1303 (3)	0.3799 (4)	0.1413 (5)	0.0514 (15)
H4	0.1477	0.3477	0.0803	0.062*
C5	0.1316 (3)	0.4776 (4)	0.1447 (6)	0.0574 (17)
H5	0.1504	0.5126	0.0872	0.069*
C6	0.1039 (3)	0.5260 (4)	0.2367 (5)	0.0519 (16)
C7	0.0744 (3)	0.4748 (4)	0.3235 (5)	0.0476 (14)
H7	0.0557	0.5077	0.3829	0.057*
C8	0.0009 (3)	0.1958 (4)	0.5204 (5)	0.0432 (14)
H8A	-0.0382	0.1650	0.4970	0.052*
H8B	-0.0091	0.2462	0.5741	0.052*
C9	0.0461 (3)	0.1213 (4)	0.5721 (4)	0.0423 (13)
H9A	0.0765	0.1534	0.6202	0.051*
H9B	0.0224	0.0751	0.6166	0.051*
C10	0.1146 (3)	-0.0002 (4)	0.5091 (4)	0.0385 (13)
H10	0.1140	-0.0181	0.5840	0.046*
C11	0.1561 (3)	-0.0556 (4)	0.4331 (4)	0.0370 (12)
C12	0.1643 (3)	-0.0340 (3)	0.3168 (4)	0.0356 (11)
C13	0.2041 (3)	-0.0949 (4)	0.2516 (5)	0.0410 (13)

H13	0.2075	-0.0849	0.1749	0.049*
C14	0.2370 (3)	-0.1675 (4)	0.3005 (5)	0.0474 (14)
H14	0.2640	-0.2058	0.2576	0.057*
C15	0.2308 (3)	-0.1858 (4)	0.4169 (5)	0.0463 (14)
C16	0.1901 (3)	-0.1313 (4)	0.4831 (5)	0.0428 (14)
H16	0.1856	-0.1448	0.5589	0.051*
N1	0.0797 (2)	0.0703 (3)	0.4793 (4)	0.0363 (10)
N2	0.0348 (2)	0.2370 (3)	0.4227 (4)	0.0360 (10)
O1	0.10571 (18)	0.2321 (3)	0.2223 (3)	0.0435 (9)
O2	0.13721 (19)	0.0409 (3)	0.2686 (3)	0.0414 (9)
O3	0.0000	0.0842 (4)	0.2500	0.0388 (12)

*Atomic displacement parameters (Å<sup>2</sup>)*

	$U^{11}$	$U^{22}$	$U^{33}$	$U^{12}$	$U^{13}$	$U^{23}$
Fe1	0.0433 (5)	0.0267 (4)	0.0327 (4)	0.0006 (3)	0.0003 (3)	-0.0002 (3)
Br1	0.1084 (7)	0.0293 (4)	0.0950 (6)	-0.0024 (3)	0.0277 (5)	0.0093 (4)
Br2	0.0660 (5)	0.0586 (5)	0.0744 (5)	0.0225 (3)	0.0087 (4)	0.0251 (4)
C1	0.044 (3)	0.036 (3)	0.041 (3)	0.001 (2)	0.001 (3)	-0.007 (2)
C2	0.042 (3)	0.031 (3)	0.045 (3)	0.000 (2)	-0.001 (3)	0.002 (2)
C3	0.042 (3)	0.037 (3)	0.043 (3)	-0.003 (2)	0.003 (3)	0.001 (3)
C4	0.062 (4)	0.042 (3)	0.050 (3)	0.001 (3)	0.007 (3)	0.011 (3)
C5	0.067 (4)	0.040 (3)	0.066 (4)	-0.007 (3)	0.013 (3)	0.009 (3)
C6	0.064 (4)	0.029 (3)	0.064 (4)	-0.004 (3)	0.005 (3)	0.012 (3)
C7	0.051 (4)	0.032 (3)	0.060 (4)	0.001 (3)	0.004 (3)	0.002 (3)
C8	0.050 (4)	0.038 (3)	0.042 (3)	0.001 (3)	0.011 (3)	0.004 (3)
C9	0.052 (3)	0.041 (3)	0.034 (3)	-0.001 (3)	0.010 (3)	0.001 (2)
C10	0.051 (4)	0.030 (3)	0.035 (3)	-0.006 (2)	-0.001 (3)	0.001 (2)
C11	0.041 (3)	0.030 (3)	0.041 (3)	-0.001 (2)	-0.003 (2)	0.003 (2)
C12	0.043 (3)	0.027 (2)	0.037 (3)	-0.001 (2)	0.001 (2)	-0.001 (2)
C13	0.049 (3)	0.034 (3)	0.041 (3)	0.003 (2)	0.001 (3)	0.001 (2)
C14	0.048 (3)	0.038 (3)	0.057 (4)	0.005 (3)	0.008 (3)	0.002 (3)
C15	0.044 (3)	0.043 (3)	0.052 (3)	0.003 (3)	0.005 (3)	0.016 (3)
C16	0.047 (3)	0.038 (3)	0.043 (3)	-0.001 (3)	0.002 (3)	0.010 (3)
N1	0.045 (3)	0.029 (2)	0.035 (2)	0.0013 (19)	0.002 (2)	-0.0019 (19)
N2	0.042 (3)	0.025 (2)	0.041 (2)	-0.0042 (18)	0.005 (2)	0.0019 (19)
O1	0.055 (3)	0.030 (2)	0.045 (2)	-0.0026 (17)	0.0101 (19)	0.0019 (17)
O2	0.056 (2)	0.034 (2)	0.0346 (18)	0.0113 (17)	-0.0020 (18)	0.0024 (16)
O3	0.045 (3)	0.028 (3)	0.043 (3)	0.000	-0.009 (2)	0.000

*Geometric parameters (Å, °)*

Fe1—O3	1.8162 (18)	C8—C9	1.533 (8)
Fe1—O2	1.926 (4)	C8—H8A	0.9700
Fe1—O1	1.930 (4)	C8—H8B	0.9700
Fe1—N2	2.116 (4)	C9—N1	1.493 (7)
Fe1—N1	2.141 (4)	C9—H9A	0.9700
Br1—C6	1.861 (6)	C9—H9B	0.9700

Br2—C15	1.905 (6)	C10—N1	1.272 (7)
C1—N2	1.268 (6)	C10—C11	1.474 (7)
C1—C2	1.470 (7)	C10—H10	0.9300
C1—H1	0.9300	C11—C16	1.404 (7)
C2—C7	1.380 (7)	C11—C12	1.434 (7)
C2—C3	1.419 (8)	C12—O2	1.314 (6)
C3—O1	1.299 (6)	C12—C13	1.422 (7)
C3—C4	1.414 (8)	C13—C14	1.354 (8)
C4—C5	1.351 (8)	C13—H13	0.9300
C4—H4	0.9300	C14—C15	1.421 (8)
C5—C6	1.414 (9)	C14—H14	0.9300
C5—H5	0.9300	C15—C16	1.388 (8)
C6—C7	1.402 (8)	C16—H16	0.9300
C7—H7	0.9300	O3—Fe1 <sup>i</sup>	1.8162 (18)
C8—N2	1.483 (7)		
O3—Fe1—O2	104.71 (16)	N1—C9—C8	108.2 (4)
O3—Fe1—O1	108.58 (16)	N1—C9—H9A	110.1
O2—Fe1—O1	92.29 (16)	C8—C9—H9A	110.1
O3—Fe1—N2	101.14 (16)	N1—C9—H9B	110.1
O2—Fe1—N2	152.39 (17)	C8—C9—H9B	110.1
O1—Fe1—N2	88.51 (16)	H9A—C9—H9B	108.4
O3—Fe1—N1	108.78 (15)	N1—C10—C11	124.6 (5)
O2—Fe1—N1	87.89 (16)	N1—C10—H10	117.7
O1—Fe1—N1	141.27 (17)	C11—C10—H10	117.7
N2—Fe1—N1	74.66 (16)	C16—C11—C12	120.4 (5)
N2—C1—C2	123.4 (5)	C16—C11—C10	115.4 (5)
N2—C1—H1	118.3	C12—C11—C10	124.2 (5)
C2—C1—H1	118.3	O2—C12—C13	118.8 (4)
C7—C2—C3	119.8 (5)	O2—C12—C11	122.4 (5)
C7—C2—C1	115.0 (5)	C13—C12—C11	118.7 (5)
C3—C2—C1	125.1 (5)	C14—C13—C12	120.3 (5)
O1—C3—C2	123.1 (5)	C14—C13—H13	119.8
O1—C3—C4	117.3 (5)	C12—C13—H13	119.8
C2—C3—C4	119.6 (5)	C13—C14—C15	120.5 (5)
C5—C4—C3	120.9 (6)	C13—C14—H14	119.8
C5—C4—H4	119.6	C15—C14—H14	119.8
C3—C4—H4	119.6	C16—C15—C14	121.3 (5)
C4—C5—C6	119.2 (6)	C16—C15—Br2	118.6 (4)
C4—C5—H5	120.4	C14—C15—Br2	120.0 (4)
C6—C5—H5	120.4	C15—C16—C11	118.5 (5)
C7—C6—C5	121.4 (5)	C15—C16—H16	120.7
C7—C6—Br1	119.0 (5)	C11—C16—H16	120.7
C5—C6—Br1	119.5 (4)	C10—N1—C9	115.4 (4)
C2—C7—C6	119.1 (6)	C10—N1—Fe1	126.6 (4)
C2—C7—H7	120.5	C9—N1—Fe1	117.8 (3)
C6—C7—H7	120.5	C1—N2—C8	119.7 (5)
N2—C8—C9	106.0 (4)	C1—N2—Fe1	127.2 (4)

---

N2—C8—H8A	110.5	C8—N2—Fe1	113.0 (3)
C9—C8—H8A	110.5	C3—O1—Fe1	132.5 (3)
N2—C8—H8B	110.5	C12—O2—Fe1	133.4 (3)
C9—C8—H8B	110.5	Fe1 <sup>i</sup> —O3—Fe1	139.4 (3)
H8A—C8—H8B	108.7		

---

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

Article retracted