

Retraction of articles

This article reports the retraction of articles published in *Acta Crystallographica Section E* between 2007 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>catena</i> -Poly[[aqua(pyrazine-2-carboxylato)iron(II)]- μ -pyrazine-2-carboxylato]	Hao & Liu (2007)	10.1107/S1600536806053207	NEVLWU
Poly[aquabis(μ -pyrazine-2-carboxylato)nickel(II)]	Hao, Mu & Liu (2007)	10.1107/S1600536806054225	TEVQUH
<i>catena</i> -Poly[[2,2'-bipyridine- κ^2 N,N']zinc(II)]- μ -imidazole-4,5-dicarboxylato- κ^4 N ¹ ,O ⁵ :N ³ ,O ²]	Li, Dong <i>et al.</i> (2007)	10.1107/S1600536807014420	XIBPAA
Poly[[aqua(2,2-bipyridyl)(μ_3 -pyridine-3,4-dicarboxylato)manganese(II)] monohydrate]	Li, Niu <i>et al.</i> (2007)	10.1107/S1600536807023586	GIGYAX
Poly[chlorido- μ_3 -1,2,4-triazolato-nickel(II)]	Gao, Wang & Hao (2007a)	10.1107/S1600536807025962	WIGTEM
Poly[[$(\mu_4$ -carbonyldibenzene-3,3',4,4'-tetracarboxylato)tetrakis(1,10-phenanthroline)-dicadmium(II)] dihydrate]	Gao, Wang & Niu (2007a)	10.1107/S1600536807028425	EDUNUN
Tetraaquabis(4,4'-bipyridine)iron(II) pyridine-2,6-dicarboxylate tetrahydrate	Gao, Wang & Niu (2007b)	10.1107/S1600536807027973	EDUPAV
<i>catena</i> -Poly[[2,2'-bipyridine)cobalt(II)]- μ -imidazole-4,5-dicarboxylato]	Hao, Bao & Yu (2007)	10.1107/S1600536807027699	EDURUR
<i>catena</i> -Poly[[aqua(pyrazine-2-carboxylato)cobalt(II)]- μ -pyrazine-2-carboxylato]	Gao, Wang, Niu & Hao (2007a)	10.1107/S1600536807027961	ODOJIA01
Poly[[[aqua(2,2-bipyridine)iron(II)]- μ_3 -pyridine-3,4-dicarboxylato] monohydrate]	Hao & Yu (2007a)	10.1107/S160053680702867X	RIGRUV
<i>catena</i> -Poly[[[diaqua(6-carboxypyridine-2-carboxylato- κ^3 O,N,O')gadolinium(III)]- μ -pyridine-2,6-dicarboxylato- κ^4 N,O,O':O'] tetrahydrate]	Hao & Yu (2007b)	10.1107/S1600536807029789	MIGDOW
Poly[[aqua(pyrazine-2-carboxylato)copper(II)]- μ -pyrazine-2-carboxylato]	Gao, Wang, Niu & Hao (2007b)	10.1107/S1600536807030528	MIGKUJ
cyclo-Tetrakis[μ -N-(2-hydroxybenzoyl)-N'-(2-hydroxy-3-methoxybenzylidene)hydrazinate(2-)]tetracobalt(II) N,N-dimethylformamide tetrasolvate	Gao, Wang & Niu (2007c)	10.1107/S1600536807033338	UDUXOH
Poly[chlorido(μ_3 -1,2,4-triazolato)manganese(II)]	Gao, Wang & Hao (2007b)	10.1107/S1600536807032886	UDUZAV
<i>catena</i> -Poly[[aqua(pyrazine-2-carboxylato- κ^2 N ¹ ,O)zinc(II)]- μ -pyrazine-2-carboxylato- κ^2 N ¹ ,O:N ⁴]	Gao, Wang, Niu & Hao (2007c)	10.1107/S1600536807033041	UDUZEZ
cyclo-Tetrakis[μ -N-(2-hydroxybenzoyl)-N'-(2-hydroxy-3-methoxybenzylidene)hydrazine(2-)]tetrazinc(II) N,N-dimethylformamide tetrasolvate	Gao, Wang & Niu (2007d)	10.1107/S1600536807034514	TIFZIS
<i>catena</i> -Poly[[[diaqua(6-carboxypyridine-2-carboxylato)terbium(III)]- μ -pyridine-2,6-dicarboxylato] tetrahydrate]	Hao & Yu (2007c)	10.1107/S1600536807034629	TIFZUE
<i>catena</i> -Poly[[aqua(pyrazine-2-carboxylato- κ^2 N ¹ ,O)manganese(II)]- μ -pyrazine-2-carboxylato- κ^2 N ¹ ,O:N ⁴]	Gao, Wang, Niu & Hao (2007d)	10.1107/S1600536807034496	TIGBER
Poly[chlorido- μ_3 -1,2,4-triazolato-iron(II)]	Gao, Wang & Hao (2007c)	10.1107/S1600536807036239	TIGHIB
Tetraaquabis(4,4'-bipyridine)manganese(II) pyridine-2,6-dicarboxylate tetrahydrate	Gao, Wang & Niu (2007e)	10.1107/S160053680703766X	AFEGIC
Poly[chlorido(μ_3 -1,2,4-triazolato)copper(II)]	Gao, Wang & Niu (2007f)	10.1107/S1600536807040007	VIKBAT
<i>catena</i> -Poly[[2,2'-bipyridine)nickel(II)]- μ -imidazole-4,5-dicarboxylato]	Hao & Yu (2007d)	10.1107/S1600536807040330	VIKCOI
Poly[[[2,2'-bipyridine)cadmium(II)]- μ_3 -pyridine-2,4-dicarboxylato] monohydrate]	Li, Wang & Liu (2007)	10.1107/S160053680704202X	XIKVOD
Poly[[aqua(μ_4 -benzene-1,3-dicarboxylato- κ^4 O':O':O''':O''')bis(imidazole- κ N)palladium(II)]	Hao & Yu (2007e)	10.1107/S1600536807044315	SILKII
Tetraaquabis(4,4'-bipyridine)cobalt(II) pyridine-2,6-dicarboxylate tetrahydrate	Guan, Gao, Wang & Wang (2007a)	10.1107/S1600536807046107	XILPOY
cyclo-Tetrakis[μ -N-(2-hydroxybenzoyl)-N'-(2-hydroxy-3-methoxybenzylidene)hydrazinate(2-)]tetracobalt(II) N,N-dimethylformamide tetrasolvate	Guan, Gao, Wang & Wang (2007b)	10.1107/S1600536807048325	SILZOD
Bis(cyanido- κ C)bis(1,10-phenanthroline- κ^2 N,N')chromium(III) bis(azido- κ N)[N,N'-(o-phenylene)bis(pyridine-2-carboxamide)- κ^2 N]chromate(III) monohydrate	Guan, Gao, Wang & Wang (2007c)	10.1107/S1600536807049872	GIMVUU
Tris[2-(propyliminomethyl)phenolato- κ^2 N,O]iron(III)	Hao, Mu & Kong (2008a)	10.1107/S1600536808018540	MODFIV
Bis[μ -2,2'-ethane-1,2-diybis(nitratomethylidene)]diphenolato]bis[(thiocyanato- κ N)-iron(III)]	Hao, Mu & Kong (2008b)	10.1107/S1600536808021892	YODCAW
<i>catena</i> -Poly[[aqua(2,2'-bipyridine- κ^2 N,N')copper(II)]- μ -5-nitrosophthalato- κ^3 O ¹ ,O ¹ :O ³]	Hao & Liu (2008)	10.1107/S1600536808035150	COLVEF
Tetrakis(μ -2,4-difluorobenzoato)bis[(2,2'-bipyridine)(2,4-difluorobenzoato)terbium(III)]	Hao & Liu (2009)	10.1107/S1600536808043936	WOQLAQ

References

- Gao, Y.-X., Wang, L.-B. & Hao, X.-R. (2007a). *Acta Cryst.* **E63**, m1800.
- Gao, Y.-X., Wang, L.-B. & Hao, X.-R. (2007b). *Acta Cryst.* **E63**, m2142.
- Gao, Y.-X., Wang, L.-B. & Hao, X.-R. (2007c). *Acta Cryst.* **E63**, m2232.
- Gao, Y.-X., Wang, L.-B. & Niu, Y.-L. (2007a). *Acta Cryst.* **E63**, m1844.
- Gao, Y.-X., Wang, L.-B. & Niu, Y.-L. (2007b). *Acta Cryst.* **E63**, m1845–m1846.
- Gao, Y.-X., Wang, L.-B. & Niu, Y.-L. (2007c). *Acta Cryst.* **E63**, m2128.
- Gao, Y.-X., Wang, L.-B. & Niu, Y.-L. (2007d). *Acta Cryst.* **E63**, m2180.
- Gao, Y.-X., Wang, L.-B. & Niu, Y.-L. (2007e). *Acta Cryst.* **E63**, m2283.
- Gao, Y.-X., Wang, L.-B. & Niu, Y.-L. (2007f). *Acta Cryst.* **E63**, m2366.
- Gao, Y.-X., Wang, L.-B., Niu, Y.-L. & Hao, L.-J. (2007a). *Acta Cryst.* **E63**, m1882.
- Gao, Y.-X., Wang, L.-B., Niu, Y.-L. & Hao, L.-J. (2007b). *Acta Cryst.* **E63**, m2006.
- Gao, Y.-X., Wang, L.-B., Niu, Y.-L. & Hao, L.-J. (2007c). *Acta Cryst.* **E63**, m2143.
- Gao, Y.-X., Wang, L.-B., Niu, Y.-L. & Hao, L.-J. (2007d). *Acta Cryst.* **E63**, m2185.
- Guan, G., Gao, Y., Wang, L. & Wang, T. (2007a). *Acta Cryst.* **E63**, m2601.
- Guan, G., Gao, Y., Wang, L. & Wang, T. (2007b). *Acta Cryst.* **E63**, m2662.
- Guan, G., Gao, Y., Wang, L. & Wang, T. (2007c). *Acta Cryst.* **E63**, m2750.
- Hao, L. & Liu, X. (2008). *Acta Cryst.* **E64**, m1500.
- Hao, L. & Liu, X. (2009). *Acta Cryst.* **E65**, m150.
- Hao, L.-J., Bao, Z.-M. & Yu, T.-L. (2007). *Acta Cryst.* **E63**, m1871.
- Hao, L.-J. & Liu, T.-T. (2007). *Acta Cryst.* **E63**, m169–m171.
- Hao, L., Mu, C. & Kong, B. (2008a). *Acta Cryst.* **E64**, m955.
- Hao, L., Mu, C. & Kong, B. (2008b). *Acta Cryst.* **E64**, m1034.
- Hao, L.-J., Mu, C.-H. & Liu, T.-T. (2007). *Acta Cryst.* **E63**, m281–m283.
- Hao, L.-J. & Yu, T.-L. (2007a). *Acta Cryst.* **E63**, m1926.
- Hao, L.-J. & Yu, T.-L. (2007b). *Acta Cryst.* **E63**, m1967.
- Hao, L.-J. & Yu, T.-L. (2007c). *Acta Cryst.* **E63**, m2182–m2183.
- Hao, L.-J. & Yu, T.-L. (2007d). *Acta Cryst.* **E63**, m2374.
- Hao, L.-J. & Yu, T.-L. (2007e). *Acta Cryst.* **E63**, m2555.
- Harrison, W. T. A., Simpson, J. & Weil, M. (2010). *Acta Cryst.* **E66**, e1–e2.
- Li, X.-M., Dong, Y.-H., Wang, Q.-W. & Liu, B. (2007). *Acta Cryst.* **E63**, m1274–m1276.
- Li, X.-M., Niu, Y.-L., Wang, Q.-W. & Liu, B. (2007). *Acta Cryst.* **E63**, m1737–m1738.
- Li, X.-M., Wang, Q.-W. & Liu, B. (2007). *Acta Cryst.* **E63**, m2443.

Tris[2-(propyliminomethyl)phenolato- κ^2N,O]iron(III)

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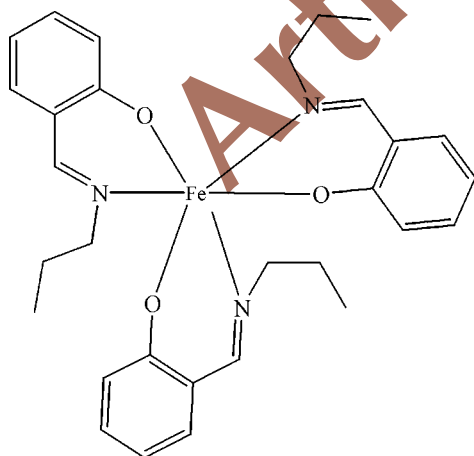
Received 14 June 2008; accepted 19 June 2008

Key indicators: single-crystal X-ray study; $T = 293$ K; mean $\sigma(C-C) = 0.005$ Å; R factor = 0.047; wR factor = 0.100; data-to-parameter ratio = 15.4.

The title compound, $[Fe(C_{10}H_{12}NO)_3]$, is isostructural with its Co^{III} -containing analogue. The Fe^{III} cation is chelated by three Schiff base ligands *via* three N and three O atoms, and exhibits a slightly distorted octahedral geometry. The longest Fe—O and Fe—N bonds lie *trans* to each other and may be regarded as axial bonds, while the equatorial plane contains two mutually *trans* O and two *trans* N atoms.

Related literature

For related literature, see: Iskander *et al.* (2001); Caruso *et al.* (2005); Sangeetha & Pal (2000); Rajak *et al.* (2000); Sutradhar *et al.* (2006). For the isostructural Co complex, see: Li *et al.* (2008).



Experimental

Crystal data

$[Fe(C_{10}H_{12}NO)_3]$
 $M_r = 542.47$
 Tetragonal, $I4_1/a$
 $a = 19.369$ (2) Å
 $c = 30.216$ (3) Å
 $V = 11336$ (2) Å³

$Z = 16$
 Mo $K\alpha$ radiation
 $\mu = 0.57$ mm⁻¹
 $T = 293$ (2) K
 $0.12 \times 0.10 \times 0.08$ mm

Data collection

Bruker APEXII CCD diffractometer
 Absorption correction: multi-scan (SADABS; Bruker, 2001)
 $T_{min} = 0.935$, $T_{max} = 0.956$

41740 measured reflections
 5198 independent reflections
 3125 reflections with $I > 2\sigma(I)$
 $R_{int} = 0.073$

Refinement

$R[F^2 > 2\sigma(F^2)] = 0.047$
 $wR(F^2) = 0.099$
 $S = 1.00$
 5198 reflections

337 parameters
 H-atom parameters constrained
 $\Delta\rho_{max} = 0.33$ e Å⁻³
 $\Delta\rho_{min} = -0.27$ e Å⁻³

Data collection: APEX2 (Bruker, 2004); cell refinement: SAINT-Plus (Bruker, 2001); data reduction: SAINT-Plus; program(s) used to solve structure: SHELXS97 (Sheldrick, 2008); program(s) used to refine structure: SHELXL97 (Sheldrick, 2008); molecular graphics: SHELXTL (Sheldrick, 2008); software used to prepare material for publication: SHELXTL.

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Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: CF2206).

References

- Bruker (2001). *SAINTE-Plus* and *SADABS*. Bruker AXS Inc., Madison, Wisconsin, USA.
 Bruker (2004). *APEX2*. Bruker AXS Inc., Madison, Wisconsin, USA.
 Caruso, U., Centore, R., Panunzi, B., Roviello, A. & Tuzi, A. (2005). *Eur. J. Inorg. Chem.* pp. 2747–2758.
 Iskander, M. F., Khalil, T. E., Haase, W., Werner, R., Svoboda, I. & Fuess, H. (2001). *Polyhedron*, **20**, 2787–2792.
 Li, S., Wang, S.-B., Tang, K. & Ma, Y.-F. (2008). *Acta Cryst.* **E64**, m823.
 Rajak, K. K., Baruah, B., Rath, S. P. & Chakravorty, A. (2000). *Inorg. Chem.* **39**, 1598–1605.
 Sangeetha, N. R. & Pal, S. (2000). *Bull. Chem. Soc. Jpn.*, **73**, 357–361.
 Sheldrick, G. M. (2008). *Acta Cryst.* **A64**, 112–122.
 Sutradhar, M., Mukherjee, G., Drew, M. G. B. & Ghosh, S. (2006). *Inorg. Chem.* **45**, 5150–5158.

supporting information

Acta Cryst. (2008). E64, m955 [doi:10.1107/S1600536808018540]

Tris[2-(propyliminomethyl)phenolato- κ^2 N,O]iron(III)**Lujiang Hao, Chunhua Mu and Binbin Kong****S1. Comment**

The design and construction of novel discrete Schiff-based metal complexes has attracted long-lasting research interest, not only because of their appealing structural and topological features, but also due to their unusual optical, electronic, magnetic and catalytic properties, and their further potential medical value derived from their antiviral properties and inhibition of angiogenesis (Iskander *et al.* 2001; Caruso *et al.* 2005; Sangeetha & Pal, 2000; Rajak *et al.* 2000; Sutradhar *et al.* 2006). Here we report the synthesis and X-ray crystal structure analysis of the title compound, which is isostructural with its Co^{III}-containing analogue (Li *et al.*, 2008).

As shown in Figure 1, the Fe^{III} cation is chelated by three Schiff base ligands via three N and three O atoms, and exhibits a slightly distorted octahedral geometry. The Fe—N and Fe—O bond lengths are in the ranges 1.917 (3)–1.969 (3) and 1.846 (2)–1.913 (2) Å, respectively. The Fe1—O2 and Fe1—N2 bonds are much longer than the other related ones. Thus the atoms O1, O3, N1, and N3 may be considered to lie in the equatorial plane, and O2 and N2 in the axial coordination sites.

S2. Experimental

A mixture of iron(III) acetylacetonate (0.5 mmol) and 2-(propyliminomethyl)phenol (0.5 mmol) in 20 ml methanol was refluxed for several hours. The filtrate obtained from this solution was allowed to evaporate at room temperature for three days. Brown crystals were obtained with a yield of 5%. Anal. Calc. for C₃₀H₃₆FeN₃O₃: C 65.36, H 6.64 N 7.74%; Found: C 65.21, H 6.59, N 7.67%.

S3. Refinement

All H atoms were placed in calculated positions with C—H = 0.93 Å and refined as riding with $U_{\text{iso}}(\text{H}) = 1.2U_{\text{eq}}(\text{C})$.

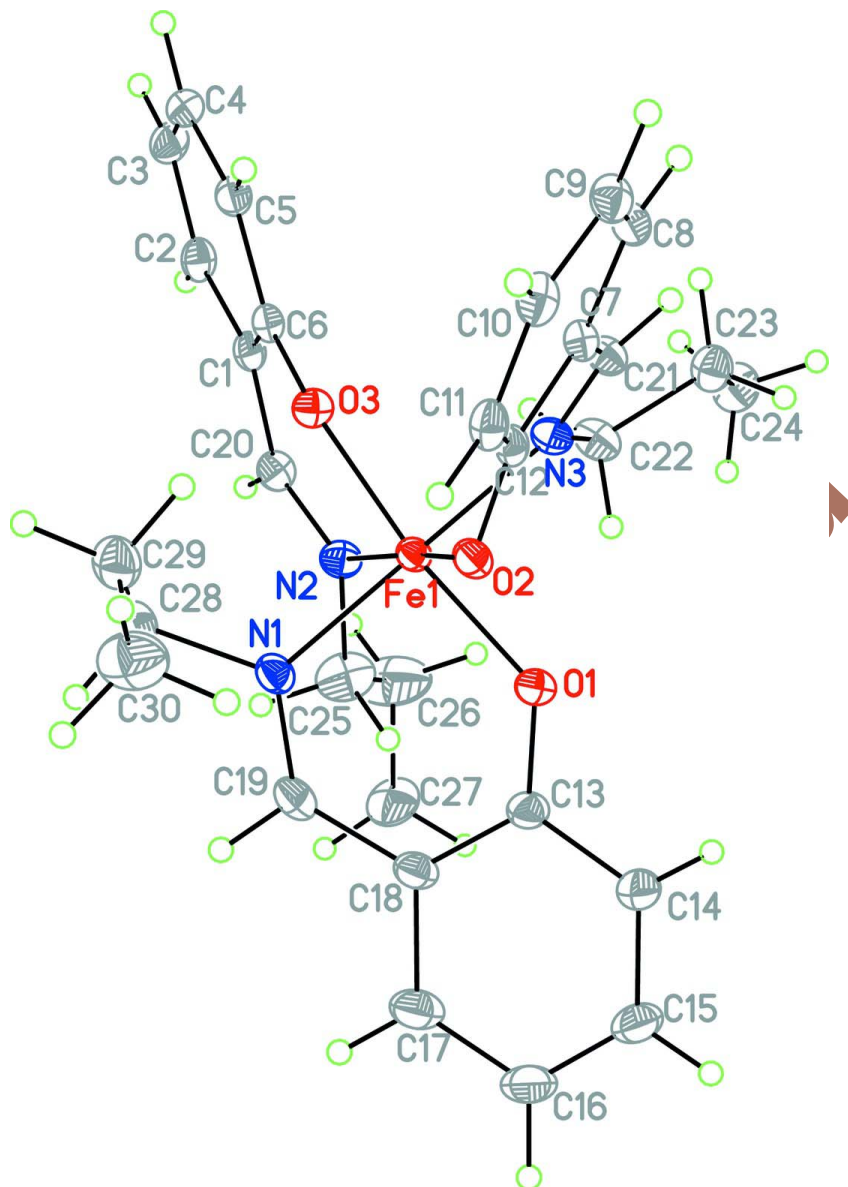


Figure 1

The molecular structure of (I), drawn with 30% probability displacement ellipsoids for the non-hydrogen atoms.

Tris[2-(propyliminomethyl)phenolato- κ^2 N,O]iron(III)

Crystal data

[Fe(C₁₀H₁₂NO)₃]

$M_r = 542.47$

Tetragonal, $I4_1/a$

Hall symbol: $-I\ 4ad$

$a = 19.369(2)\ \text{\AA}$

$c = 30.216(3)\ \text{\AA}$

$V = 11336(2)\ \text{\AA}^3$

$Z = 16$

$F(000) = 4592$

$D_x = 1.271\ \text{Mg m}^{-3}$

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

Cell parameters from 5198 reflections

$\theta = 1.3\text{--}25.5^\circ$

$\mu = 0.57\ \text{mm}^{-1}$

$T = 293\ \text{K}$

Block, green

$0.12 \times 0.10 \times 0.08\ \text{mm}$

Data collection

Bruker APEXII CCD
diffractometer
Radiation source: fine-focus sealed tube
Graphite monochromator
 φ and ω scans
Absorption correction: multi-scan
(*SADABS*; Bruker, 2001)
 $T_{\min} = 0.935$, $T_{\max} = 0.956$

41740 measured reflections
5198 independent reflections
3125 reflections with $I > 2\sigma(I)$
 $R_{\text{int}} = 0.073$
 $\theta_{\max} = 25.5^\circ$, $\theta_{\min} = 1.3^\circ$
 $h = -23 \rightarrow 22$
 $k = -23 \rightarrow 23$
 $l = -36 \rightarrow 36$

Refinement

Refinement on F^2
Least-squares matrix: full
 $R[F^2 > 2\sigma(F^2)] = 0.047$
 $wR(F^2) = 0.099$
 $S = 1.00$
5198 reflections
337 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
 $w = 1/[\sigma^2(F_o^2) + (0.0375P)^2]$
where $P = (F_o^2 + 2F_c^2)/3$
 $(\Delta/\sigma)_{\max} < 0.001$
 $\Delta\rho_{\max} = 0.33 \text{ e } \text{\AA}^{-3}$
 $\Delta\rho_{\min} = -0.27 \text{ e } \text{\AA}^{-3}$

Special details

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

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

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

	<i>x</i>	<i>y</i>	<i>z</i>	$U_{\text{iso}}^*/U_{\text{eq}}$
Fe1	0.22632 (2)	0.98149 (2)	0.992992 (13)	0.05735 (17)
C1	0.14742 (16)	0.94922 (15)	0.89961 (9)	0.0579 (8)
C2	0.10654 (19)	0.94259 (17)	0.86092 (10)	0.0703 (9)
H2	0.1202	0.9650	0.8352	0.084*
C3	0.04851 (19)	0.90467 (18)	0.86056 (12)	0.0783 (10)
H3	0.0213	0.9020	0.8353	0.094*
C4	0.03008 (16)	0.86948 (17)	0.89893 (12)	0.0755 (9)
H4	-0.0097	0.8426	0.8989	0.091*
C5	0.06917 (16)	0.87330 (15)	0.93694 (10)	0.0647 (8)
H5	0.0554	0.8488	0.9619	0.078*
C6	0.12904 (15)	0.91330 (14)	0.93872 (10)	0.0548 (7)
C7	0.09561 (16)	0.97163 (15)	1.05726 (9)	0.0577 (8)
C8	0.03352 (16)	0.95695 (16)	1.07764 (10)	0.0693 (9)
H8	-0.0047	0.9843	1.0713	0.083*
C9	0.02656 (19)	0.90334 (17)	1.10688 (11)	0.0745 (9)
H9	-0.0158	0.8943	1.1202	0.089*

C10	0.0822 (2)	0.86399 (18)	1.11603 (10)	0.0749 (9)
H10	0.0774	0.8266	1.1351	0.090*
C11	0.14583 (19)	0.87783 (16)	1.09771 (10)	0.0706 (9)
H11	0.1836	0.8506	1.1053	0.085*
C12	0.15458 (16)	0.93302 (15)	1.06737 (9)	0.0561 (8)
C13	0.34061 (18)	1.0494 (2)	1.03341 (11)	0.0738 (9)
C14	0.3673 (2)	1.1078 (2)	1.05590 (13)	0.1009 (12)
H14	0.3404	1.1474	1.0587	0.121*
C15	0.4327 (2)	1.1063 (3)	1.07356 (14)	0.1233 (17)
H15	0.4494	1.1449	1.0885	0.148*
C16	0.4732 (2)	1.0498 (3)	1.06961 (15)	0.1199 (16)
H16	0.5172	1.0495	1.0819	0.144*
C17	0.4490 (2)	0.9930 (3)	1.04737 (13)	0.1051 (13)
H17	0.4772	0.9544	1.0445	0.126*
C18	0.38262 (17)	0.9922 (2)	1.02892 (11)	0.0764 (10)
C19	0.36133 (19)	0.9318 (2)	1.00561 (11)	0.0781 (10)
H19	0.3945	0.8974	1.0026	0.094*
C20	0.20828 (17)	0.98920 (16)	0.89763 (11)	0.0678 (9)
H20	0.2235	1.0028	0.8698	0.081*
C21	0.09974 (16)	1.02899 (16)	1.02768 (10)	0.0660 (8)
H21	0.0631	1.0600	1.0285	0.079*
C22	0.14568 (17)	1.10734 (17)	0.97424 (12)	0.0844 (10)
H22A	0.1397	1.0951	0.9433	0.101*
H22B	0.1903	1.1297	0.9769	0.101*
C23	0.0919 (2)	1.15896 (17)	0.98566 (12)	0.0889 (11)
H23A	0.0971	1.1730	1.0163	0.107*
H23B	0.0465	1.1386	0.9821	0.107*
C24	0.0987 (2)	1.22091 (17)	0.95597 (13)	0.1048 (13)
H24A	0.1464	1.2340	0.9539	0.157*
H24B	0.0725	1.2586	0.9680	0.157*
H24C	0.0814	1.2098	0.9270	0.157*
C25	0.3097 (2)	1.0451 (3)	0.92058 (14)	0.1238 (15)
H25A	0.3341	1.0515	0.9483	0.149*
H25B	0.3373	1.0136	0.9029	0.149*
C26	0.3106 (3)	1.1023 (3)	0.9010 (2)	0.126 (3)
H26A	0.2831	1.1346	0.9182	0.240*
H26B	0.2878	1.0966	0.8727	0.240*
C27	0.3813 (2)	1.1356 (2)	0.89256 (15)	0.1331 (17)
H27A	0.3935	1.1643	0.9173	0.200*
H27B	0.3792	1.1632	0.8662	0.200*
H27C	0.4154	1.1001	0.8890	0.200*
C28	0.29461 (18)	0.85217 (19)	0.96588 (12)	0.0870 (11)
H28A	0.3396	0.8358	0.9565	0.104*
H28B	0.2665	0.8584	0.9396	0.104*
C29	0.2615 (2)	0.7984 (2)	0.99533 (14)	0.1041 (13)
H29A	0.2164	0.8152	1.0043	0.125*
H29B	0.2541	0.7569	0.9779	0.125*
C30	0.3005 (2)	0.7793 (2)	1.03570 (18)	0.1528 (19)

H30A	0.3439	0.7591	1.0274	0.229*
H30B	0.2743	0.7465	1.0526	0.229*
H30C	0.3087	0.8198	1.0532	0.229*
N1	0.30265 (14)	0.91895 (14)	0.98831 (8)	0.0679 (7)
N2	0.24462 (14)	1.00853 (13)	0.93127 (9)	0.0697 (7)
N3	0.14842 (12)	1.04268 (13)	0.99995 (8)	0.0635 (7)
O1	0.27883 (11)	1.05426 (11)	1.01689 (7)	0.0753 (6)
O2	0.21526 (10)	0.94675 (11)	1.05183 (6)	0.0651 (6)
O3	0.16501 (10)	0.91380 (10)	0.97551 (6)	0.0622 (5)

Atomic displacement parameters (\AA^2)

	U^{11}	U^{22}	U^{33}	U^{12}	U^{13}	U^{23}
Fe1	0.0520 (3)	0.0673 (3)	0.0527 (3)	0.0034 (2)	0.0019 (2)	-0.0006 (2)
C1	0.068 (2)	0.0595 (19)	0.0458 (18)	0.0098 (17)	0.0056 (16)	-0.0015 (15)
C2	0.092 (3)	0.071 (2)	0.049 (2)	0.010 (2)	0.0032 (18)	-0.0026 (16)
C3	0.086 (3)	0.086 (3)	0.063 (2)	0.001 (2)	-0.011 (2)	-0.0124 (19)
C4	0.064 (2)	0.079 (2)	0.084 (3)	0.0000 (18)	-0.007 (2)	-0.021 (2)
C5	0.066 (2)	0.062 (2)	0.066 (2)	0.0029 (17)	0.0066 (17)	-0.0042 (16)
C6	0.060 (2)	0.0522 (18)	0.0517 (19)	0.0087 (15)	0.0042 (16)	-0.0050 (15)
C7	0.064 (2)	0.0522 (18)	0.0571 (19)	0.0062 (16)	0.0055 (16)	-0.0028 (15)
C8	0.070 (2)	0.064 (2)	0.074 (2)	0.0055 (17)	0.0133 (18)	-0.0013 (18)
C9	0.085 (3)	0.068 (2)	0.070 (2)	-0.005 (2)	0.0171 (19)	-0.0010 (19)
C10	0.104 (3)	0.064 (2)	0.057 (2)	-0.006 (2)	0.013 (2)	0.0015 (16)
C11	0.095 (3)	0.062 (2)	0.055 (2)	0.0135 (19)	-0.0056 (19)	-0.0051 (17)
C12	0.067 (2)	0.0582 (19)	0.0436 (17)	0.0072 (17)	0.0007 (16)	-0.0091 (15)
C13	0.057 (2)	0.095 (3)	0.069 (2)	-0.010 (2)	0.0062 (18)	-0.006 (2)
C14	0.072 (3)	0.126 (3)	0.105 (3)	-0.012 (2)	0.004 (2)	-0.034 (3)
C15	0.074 (3)	0.184 (5)	0.112 (3)	-0.033 (3)	-0.001 (3)	-0.050 (3)
C16	0.065 (3)	0.183 (5)	0.112 (4)	-0.007 (3)	-0.016 (3)	-0.023 (4)
C17	0.061 (3)	0.153 (4)	0.101 (3)	0.001 (3)	0.000 (2)	-0.001 (3)
C18	0.053 (2)	0.106 (3)	0.070 (2)	0.004 (2)	0.0030 (18)	-0.002 (2)
C19	0.066 (2)	0.095 (3)	0.074 (2)	0.019 (2)	0.013 (2)	0.002 (2)
C20	0.074 (2)	0.077 (2)	0.052 (2)	0.0004 (19)	0.0096 (17)	0.0060 (17)
C21	0.060 (2)	0.064 (2)	0.074 (2)	0.0074 (17)	0.0052 (17)	0.0079 (17)
C22	0.075 (2)	0.079 (2)	0.099 (3)	0.005 (2)	0.015 (2)	0.027 (2)
C23	0.104 (3)	0.074 (2)	0.089 (3)	0.007 (2)	-0.005 (2)	0.002 (2)
C24	0.130 (3)	0.065 (2)	0.120 (3)	0.001 (2)	-0.008 (3)	0.021 (2)
C25	0.127 (4)	0.144 (4)	0.100 (3)	-0.035 (3)	-0.002 (3)	0.037 (3)
C26	0.148 (8)	0.122 (7)	0.110 (7)	-0.007 (6)	-0.014 (6)	-0.005 (6)
C27	0.124 (4)	0.118 (3)	0.157 (4)	-0.063 (3)	0.028 (3)	0.000 (3)
C28	0.080 (3)	0.092 (3)	0.089 (3)	0.021 (2)	0.007 (2)	-0.024 (2)
C29	0.108 (3)	0.076 (3)	0.129 (4)	0.014 (2)	0.000 (3)	0.007 (3)
C30	0.139 (4)	0.138 (4)	0.182 (5)	0.003 (3)	-0.040 (4)	0.040 (4)
N1	0.0608 (17)	0.083 (2)	0.0596 (16)	0.0104 (15)	0.0072 (14)	-0.0056 (14)
N2	0.0630 (17)	0.0785 (19)	0.0675 (18)	-0.0054 (15)	0.0064 (15)	0.0089 (15)
N3	0.0560 (15)	0.0691 (17)	0.0653 (17)	0.0024 (13)	0.0007 (13)	0.0120 (14)
O1	0.0568 (14)	0.0766 (15)	0.0925 (17)	0.0006 (12)	-0.0033 (12)	-0.0077 (12)

O2	0.0572 (13)	0.0848 (15)	0.0532 (12)	0.0147 (11)	-0.0012 (10)	-0.0047 (11)
O3	0.0650 (13)	0.0710 (14)	0.0506 (12)	-0.0013 (10)	-0.0026 (10)	0.0063 (10)

Geometric parameters (Å, °)

Fe1—O3	1.846 (2)	C17—C18	1.402 (5)
Fe1—O1	1.882 (2)	C17—H17	0.930
Fe1—O2	1.913 (2)	C18—C19	1.425 (5)
Fe1—N1	1.917 (3)	C19—N1	1.276 (4)
Fe1—N3	1.930 (2)	C19—H19	0.930
Fe1—N2	1.969 (3)	C20—N2	1.292 (4)
C1—C20	1.412 (4)	C20—H20	0.930
C1—C2	1.418 (4)	C21—N3	1.289 (3)
C1—C6	1.417 (4)	C21—H21	0.930
C2—C3	1.343 (4)	C22—N3	1.475 (4)
C2—H2	0.930	C22—C23	1.484 (4)
C3—C4	1.392 (4)	C22—H22A	0.970
C3—H3	0.930	C22—H22B	0.970
C4—C5	1.378 (4)	C23—C24	1.504 (4)
C4—H4	0.930	C23—H23A	0.970
C5—C6	1.396 (4)	C23—H23B	0.970
C5—H5	0.930	C24—H24A	0.960
C6—O3	1.312 (3)	C24—H24B	0.960
C7—C8	1.381 (4)	C24—H24C	0.960
C7—C12	1.399 (4)	C25—C26	1.257 (5)
C7—C21	1.428 (4)	C25—N2	1.481 (5)
C8—C9	1.370 (4)	C25—H25A	0.970
C8—H8	0.930	C25—H25B	0.970
C9—C10	1.348 (4)	C26—C27	1.535 (6)
C9—H9	0.930	C26—H26A	0.970
C10—C11	1.378 (4)	C26—H26B	0.970
C10—H10	0.930	C27—H27A	0.960
C11—C12	1.418 (4)	C27—H27B	0.960
C11—H11	0.930	C27—H27C	0.960
C12—O2	1.293 (3)	C28—N1	1.469 (4)
C13—O1	1.300 (4)	C28—C29	1.514 (5)
C13—C18	1.382 (5)	C28—H28A	0.970
C13—C14	1.418 (5)	C28—H28B	0.970
C14—C15	1.376 (5)	C29—C30	1.482 (5)
C14—H14	0.930	C29—H29A	0.970
C15—C16	1.352 (6)	C29—H29B	0.970
C15—H15	0.930	C30—H30A	0.960
C16—C17	1.372 (5)	C30—H30B	0.960
C16—H16	0.930	C30—H30C	0.960
O3—Fe1—O1	171.58 (9)	N2—C20—C1	125.5 (3)
O3—Fe1—O2	86.80 (8)	N2—C20—H20	117.2
O1—Fe1—O2	88.13 (9)	C1—C20—H20	117.2

O3—Fe1—N1	91.50 (11)	N3—C21—C7	127.4 (3)
O1—Fe1—N1	94.86 (11)	N3—C21—H21	116.3
O2—Fe1—N1	86.14 (9)	C7—C21—H21	116.3
O3—Fe1—N3	87.97 (10)	N3—C22—C23	118.4 (3)
O1—Fe1—N3	85.46 (10)	N3—C22—H22A	107.7
O2—Fe1—N3	91.56 (9)	C23—C22—H22A	107.7
N1—Fe1—N3	177.67 (10)	N3—C22—H22B	107.7
O3—Fe1—N2	91.93 (10)	C23—C22—H22B	107.7
O1—Fe1—N2	93.83 (11)	H22A—C22—H22B	107.1
O2—Fe1—N2	173.65 (9)	C22—C23—C24	109.7 (3)
N1—Fe1—N2	87.67 (10)	C22—C23—H23A	109.7
N3—Fe1—N2	94.62 (10)	C24—C23—H23A	109.7
C20—C1—C2	118.8 (3)	C22—C23—H23B	109.7
C20—C1—C6	121.0 (3)	C24—C23—H23B	109.7
C2—C1—C6	120.2 (3)	H23A—C23—H23B	108.2
C3—C2—C1	121.6 (3)	C23—C24—H24A	109.5
C3—C2—H2	119.2	C23—C24—H24B	109.5
C1—C2—H2	119.2	H24A—C24—H24B	109.5
C2—C3—C4	118.4 (3)	C23—C24—H24C	109.5
C2—C3—H3	120.8	H24A—C24—H24C	109.5
C4—C3—H3	120.8	H24B—C24—H24C	109.5
C5—C4—C3	121.8 (3)	C26—C25—N2	122.4 (5)
C5—C4—H4	119.1	C26—C25—H25A	106.7
C3—C4—H4	119.1	N2—C25—H25A	106.7
C4—C5—C6	121.2 (3)	C26—C25—H25B	106.7
C4—C5—H5	119.4	N2—C25—H25B	106.7
C6—C5—H5	119.4	H25A—C25—H25B	106.6
O3—C6—C5	118.6 (3)	C25—C26—C27	117.4 (5)
O3—C6—C1	124.7 (3)	C25—C26—H26A	108.0
C5—C6—C1	116.7 (3)	C27—C26—H26A	107.9
C8—C7—C12	120.2 (3)	C25—C26—H26B	107.9
C8—C7—C21	119.2 (3)	C27—C26—H26B	107.9
C12—C7—C21	120.5 (3)	H26A—C26—H26B	107.2
C9—C8—C7	122.0 (3)	C26—C27—H27A	109.5
C9—C8—H8	119.0	C26—C27—H27B	109.5
C7—C8—H8	119.0	H27A—C27—H27B	109.5
C10—C9—C8	118.8 (3)	C26—C27—H27C	109.5
C10—C9—H9	120.6	H27A—C27—H27C	109.5
C8—C9—H9	120.6	H27B—C27—H27C	109.5
C9—C10—C11	121.5 (3)	N1—C28—C29	112.3 (3)
C9—C10—H10	119.2	N1—C28—H28A	109.1
C11—C10—H10	119.2	C29—C28—H28A	109.1
C10—C11—C12	120.9 (3)	N1—C28—H28B	109.1
C10—C11—H11	119.6	C29—C28—H28B	109.1
C12—C11—H11	119.6	H28A—C28—H28B	107.9
O2—C12—C7	123.5 (3)	C30—C29—C28	116.0 (4)
O2—C12—C11	119.9 (3)	C30—C29—H29A	108.3
C7—C12—C11	116.5 (3)	C28—C29—H29A	108.3

O1—C13—C18	124.2 (3)	C30—C29—H29B	108.3
O1—C13—C14	117.5 (4)	C28—C29—H29B	108.3
C18—C13—C14	118.3 (3)	H29A—C29—H29B	107.4
C15—C14—C13	120.3 (4)	C29—C30—H30A	109.5
C15—C14—H14	119.9	C29—C30—H30B	109.5
C13—C14—H14	119.9	H30A—C30—H30B	109.5
C14—C15—C16	121.2 (4)	C29—C30—H30C	109.5
C14—C15—H15	119.4	H30A—C30—H30C	109.5
C16—C15—H15	119.4	H30B—C30—H30C	109.5
C15—C16—C17	119.6 (4)	C19—N1—C28	117.1 (3)
C15—C16—H16	120.2	C19—N1—Fe1	122.2 (2)
C17—C16—H16	120.2	C28—N1—Fe1	120.6 (2)
C16—C17—C18	121.2 (4)	C20—N2—C25	115.5 (3)
C16—C17—H17	119.4	C20—N2—Fe1	124.7 (2)
C18—C17—H17	119.4	C25—N2—Fe1	119.1 (2)
C17—C18—C13	119.5 (4)	C21—N3—C22	119.4 (3)
C17—C18—C19	118.1 (4)	C21—N3—Fe1	121.1 (2)
C13—C18—C19	122.4 (3)	C22—N3—Fe1	119.5 (2)
N1—C19—C18	128.3 (3)	C13—O1—Fe1	126.2 (2)
N1—C19—H19	115.8	C12—O2—Fe1	120.76 (18)
C18—C19—H19	115.8	C6—O3—Fe1	126.11 (18)

Article retracted