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#=====
data_global
#=====

_audit_creation_date          07-11-05
_audit_creation_method        SHELXL-97

# 1. Submission Details

_publ_contact_author_name     'Jun Okuda'
_publ_contact_author_address
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_publ_contact_author_phone     '0049-241-8094645'
_publ_contact_author_fax      '0049-241-8092644'
_publ_contact_author_email     'jun.okuda@ac.rwth-aachen.de'
_publ_requested_journal        'Inorganic Chemistry'

_publ_requested_coeditor_name  ?

_publ_contact_letter
;
March 4, 2005
This CIF file is part of a manuscript that is submitted for publication in the
journal 'Inorganic Chemistry'.
;
# 3. TITLE AND AUTHOR LIST

_publ_section_title
;
Rare-Earth Metal Complexes Supported by 1,\w-Dithia-alkanediyl-Bridged
Bis(phenolato) Ligands: Synthesis, Structure, and Heteroselective
Ring-Opening Polymerization of rac-Lactide
;

# The loop structure below should contain the names and addresses of all
# authors, in the required order of publication. Repeat as necessary.

loop_
  _publ_author_name
  _publ_author_address

    'Ma, Haiyan'
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    RWTH Aachen University
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    Germany
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```

      'Spaniol, Thomas P.'
;      Institute of Inorganic Chemistry
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      Landoltweg 1
      D-52056 Aachen
      Germany
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      'Okuda, Jun'
;      Institute of Inorganic Chemistry
      RWTH Aachen University
      Landoltweg 1
      D-52056 Aachen
      Germany
;
#=====
_publ_section_abstract
;
;
_publ_section_references
;
Bruker (1999). SAINT. Version 6.02. Program for Reduction of Data
Collected on Bruker CCD Area Detector Diffractometer, Bruker AXS
Inc., Madison, Wisconsin, USA.

Bruker (2001). SMART. Version 5.624. Program for Bruker CCD X-ray
Diffractometer Control. Bruker AXS Inc., Madison, Wisconsin, USA.

Farrugia, L. J. (1999). J. Appl. Cryst. 32, 837.

Sheldrick, G. M. (1996). SADABS. Program for Empirical Absorption
Correction of Area Detector Data, University of G"ottingen, Germany.

Sheldrick, G. M. (1986). SHELXS-86. A Program for Crystal Structure Solution,
University of G"ottingen, Germany.

Sheldrick, G. M. (1997). SHELXL-97. A Program for Crystal Structure
Refinement, University of G"ottingen, University of G"ottingen, Germany.
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_refine_special_details

;

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 $F^2 > 2\sigma(F^2)$ 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.

;

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'calc w=1/[\s^2^(Fo^2^)(0.0499P)^2^.0998P] where P=(Fo^2^ * ^2^)/3'

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loop_

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S1	S	0.82948(5)	0.04159(2)	0.95801(3)	0.01417(10)	Uani	1	1	d	.	.	.	.
S2	S	0.46263(5)	0.02000(2)	0.79898(3)	0.01757(11)	Uani	1	1	d	.	.	.	.
Si1	Si	0.91935(6)	0.20148(2)	0.82152(3)	0.01742(12)	Uani	1	1	d	.	.	.	.
H1	H	0.795(2)	0.2220(10)	0.7949(13)	0.021	Uiso	1	1	d	.	.	.	.
Si2	Si	1.06422(6)	0.09592(2)	0.78836(3)	0.01822(12)	Uani	1	1	d	.	.	.	.
H2	H	1.172(2)	0.1178(10)	0.8373(14)	0.022	Uiso	1	1	d	.	.	.	.
O1	O	0.63436(14)	0.13010(6)	0.89443(8)	0.0166(3)	Uani	1	1	d	.	.	.	.
O2	O	0.70865(13)	0.01397(6)	0.72531(8)	0.0164(3)	Uani	1	1	d	.	.	.	.
O3	O	0.58770(15)	0.13489(7)	0.71379(8)	0.0225(3)	Uani	1	1	d	.	.	.	.
N	N	0.91742(17)	0.12970(7)	0.80186(10)	0.0169(3)	Uani	1	1	d	.	.	.	.
C1	C	0.67293(19)	0.13711(8)	0.96907(11)	0.0135(4)	Uani	1	1	d	.	.	.	.
C2	C	0.77157(19)	0.10040(8)	1.00837(11)	0.0135(4)	Uani	1	1	d	.	.	.	.
C3	C	0.82388(19)	0.10796(8)	1.08551(11)	0.0144(4)	Uani	1	1	d	.	.	.	.
H3	H	0.8927	0.0830	1.1094	0.017	Uiso	1	1	calc	R	.	.	.
C4	C	0.7759(2)	0.15159(8)	1.12743(11)	0.0154(4)	Uani	1	1	d	.	.	.	.
C5	C	0.67347(19)	0.18652(8)	1.08963(11)	0.0154(4)	Uani	1	1	d	.	.	.	.
H5	H	0.6382	0.2159	1.1185	0.019	Uiso	1	1	calc	R	.	.	.
C6	C	0.62008(19)	0.18114(8)	1.01279(11)	0.0141(4)	Uani	1	1	d	.	.	.	.
C7	C	0.8288(2)	0.15983(10)	1.21134(12)	0.0228(4)	Uani	1	1	d	.	.	.	.
H7A	H	0.9100	0.1363	1.2252	0.034	Uiso	1	1	calc	R	.	.	.
H7B	H	0.7592	0.1482	1.2423	0.034	Uiso	1	1	calc	R	.	.	.
H7C	H	0.8515	0.2003	1.2210	0.034	Uiso	1	1	calc	R	.	.	.
C8	C	0.5087(2)	0.22163(8)	0.97476(11)	0.0168(4)	Uani	1	1	d	.	.	.	.

C9 C 0.4597(2) 0.26270(10) 1.03304(13) 0.0279(5) Uani 1 1 d . . .
H9A H 0.3904 0.2883 1.0065 0.042 Uiso 1 1 calc R . .
H9B H 0.5363 0.2855 1.0578 0.042 Uiso 1 1 calc R . .
H9C H 0.4212 0.2406 1.0720 0.042 Uiso 1 1 calc R . .
C10 C 0.5651(2) 0.25809(9) 0.91398(12) 0.0228(4) Uani 1 1 d . . .
H10A H 0.6000 0.2329 0.8768 0.034 Uiso 1 1 calc R . .
H10B H 0.6385 0.2824 0.9390 0.034 Uiso 1 1 calc R . .
H10C H 0.4927 0.2822 0.8874 0.034 Uiso 1 1 calc R . .
C11 C 0.3861(2) 0.18700(10) 0.93806(13) 0.0237(4) Uani 1 1 d . . .
H11A H 0.3176 0.2131 0.9118 0.036 Uiso 1 1 calc R . .
H11B H 0.3478 0.1659 0.9780 0.036 Uiso 1 1 calc R . .
H11C H 0.4144 0.1599 0.9009 0.036 Uiso 1 1 calc R . .
C12 C 0.7137(2) -0.01477(9) 0.98141(12) 0.0195(4) Uani 1 1 d . . .
H12A H 0.7426 -0.0285 1.0345 0.023 Uiso 1 1 calc R . .
H12B H 0.6210 0.0010 0.9786 0.023 Uiso 1 1 calc R . .
C13 C 0.7136(2) -0.06385(8) 0.92605(11) 0.0176(4) Uani 1 1 d . . .
C14 C 0.6023(2) -0.07582(8) 0.86997(12) 0.0181(4) Uani 1 1 d . . .
C15 C 0.6114(2) -0.12162(9) 0.82006(12) 0.0223(4) Uani 1 1 d . . .
H15 H 0.5367 -0.1301 0.7819 0.027 Uiso 1 1 calc R . .
C16 C 0.7270(2) -0.15497(9) 0.82500(13) 0.0257(5) Uani 1 1 d . . .
H16 H 0.7317 -0.1856 0.7899 0.031 Uiso 1 1 calc R . .
C17 C 0.8350(2) -0.14364(9) 0.88078(14) 0.0255(5) Uani 1 1 d . . .
H17 H 0.9142 -0.1667 0.8848 0.031 Uiso 1 1 calc R . .
C18 C 0.8279(2) -0.09831(9) 0.93122(13) 0.0217(4) Uani 1 1 d . . .
H18 H 0.9025 -0.0908 0.9699 0.026 Uiso 1 1 calc R . .
C19 C 0.4724(2) -0.04256(9) 0.86271(12) 0.0212(4) Uani 1 1 d . . .
H19A H 0.4584 -0.0295 0.9145 0.025 Uiso 1 1 calc R . .
H19B H 0.3969 -0.0688 0.8438 0.025 Uiso 1 1 calc R . .
C20 C 0.4800(2) -0.01592(9) 0.71240(11) 0.0172(4) Uani 1 1 d . . .
C21 C 0.6078(2) -0.01611(8) 0.68709(11) 0.0161(4) Uani 1 1 d . . .
C22 C 0.6224(2) -0.05015(9) 0.62152(11) 0.0184(4) Uani 1 1 d . . .
C23 C 0.5109(2) -0.08157(9) 0.58821(12) 0.0226(4) Uani 1 1 d . . .
H23 H 0.5212 -0.1046 0.5449 0.027 Uiso 1 1 calc R . .
C24 C 0.3853(2) -0.08165(9) 0.61379(13) 0.0234(5) Uani 1 1 d . . .
C25 C 0.3703(2) -0.04742(9) 0.67606(12) 0.0214(4) Uani 1 1 d . . .
H25 H 0.2851 -0.0453 0.6942 0.026 Uiso 1 1 calc R . .
C26 C 0.2708(3) -0.11899(11) 0.57668(14) 0.0324(5) Uani 1 1 d . . .
H26A H 0.2835 -0.1582 0.5965 0.049 Uiso 1 1 calc R . .
H26B H 0.2700 -0.1192 0.5209 0.049 Uiso 1 1 calc R . .
H26C H 0.1845 -0.1038 0.5885 0.049 Uiso 1 1 calc R . .
C27 C 0.7591(2) -0.05456(10) 0.59176(12) 0.0223(4) Uani 1 1 d . . .
C28 C 0.8601(3) -0.08502(11) 0.65244(14) 0.0308(5) Uani 1 1 d . . .
H28A H 0.8635 -0.0651 0.7018 0.046 Uiso 1 1 calc R . .
H28B H 0.9502 -0.0847 0.6364 0.046 Uiso 1 1 calc R . .
H28C H 0.8310 -0.1247 0.6580 0.046 Uiso 1 1 calc R . .
C29 C 0.8110(3) 0.00527(11) 0.57394(15) 0.0328(6) Uani 1 1 d . . .
H29A H 0.7436 0.0244 0.5364 0.049 Uiso 1 1 calc R . .
H29B H 0.8963 0.0016 0.5528 0.049 Uiso 1 1 calc R . .
H29C H 0.8261 0.0280 0.6213 0.049 Uiso 1 1 calc R . .
C30 C 0.7493(3) -0.08935(11) 0.51677(14) 0.0317(5) Uani 1 1 d . . .
H30A H 0.7163 -0.1280 0.5255 0.048 Uiso 1 1 calc R . .
H30B H 0.8390 -0.0918 0.5004 0.048 Uiso 1 1 calc R . .
H30C H 0.6863 -0.0704 0.4767 0.048 Uiso 1 1 calc R . .
C31 C 0.9616(3) 0.22012(10) 0.92535(13) 0.0285(5) Uani 1 1 d . . .
H31A H 0.8978 0.2010 0.9545 0.043 Uiso 1 1 calc R . .
H31B H 0.9552 0.2617 0.9317 0.043 Uiso 1 1 calc R . .
H31C H 1.0540 0.2074 0.9444 0.043 Uiso 1 1 calc R . .

C32 C 1.0399(2) 0.24320(10) 0.77087(14) 0.0266(5) Uani 1 1 d . . .
 H32A H 1.1317 0.2279 0.7847 0.040 Uiso 1 1 calc R . .
 H32B H 1.0384 0.2836 0.7861 0.040 Uiso 1 1 calc R . .
 H32C H 1.0130 0.2400 0.7152 0.040 Uiso 1 1 calc R . .
 C33 C 1.0537(2) 0.01807(9) 0.80966(14) 0.0259(5) Uani 1 1 d . . .
 H33A H 1.0446 0.0128 0.8640 0.039 Uiso 1 1 calc R . .
 H33B H 1.1361 -0.0011 0.7986 0.039 Uiso 1 1 calc R . .
 H33C H 0.9747 0.0015 0.7776 0.039 Uiso 1 1 calc R . .
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 H34A H 1.0313 0.0901 0.6518 0.051 Uiso 1 1 calc R . .
 H34B H 1.1879 0.0802 0.6840 0.051 Uiso 1 1 calc R . .
 H34C H 1.1265 0.1437 0.6790 0.051 Uiso 1 1 calc R . .
 C35 C 0.4763(3) 0.17409(12) 0.71860(15) 0.0393(7) Uani 1 1 d . . .
 H35A H 0.5069 0.2074 0.7513 0.047 Uiso 1 1 calc R . .
 H35B H 0.4020 0.1546 0.7401 0.047 Uiso 1 1 calc R . .
 C36 C 0.4304(3) 0.19270(14) 0.63662(16) 0.0512(9) Uani 1 1 d . . .
 H36A H 0.3921 0.2319 0.6345 0.061 Uiso 1 1 calc R . .
 H36B H 0.3620 0.1660 0.6101 0.061 Uiso 1 1 calc R . .
 C37 C 0.5608(4) 0.19063(12) 0.60190(15) 0.0467(8) Uani 1 1 d . . .
 H37A H 0.5425 0.1872 0.5453 0.056 Uiso 1 1 calc R . .
 H37B H 0.6169 0.2251 0.6157 0.056 Uiso 1 1 calc R . .
 C38 C 0.6282(3) 0.13772(11) 0.63760(13) 0.0321(5) Uani 1 1 d . . .
 H38A H 0.5971 0.1033 0.6072 0.039 Uiso 1 1 calc R . .
 H38B H 0.7279 0.1407 0.6411 0.039 Uiso 1 1 calc R . .

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 S2 0.0174(2) 0.0183(2) 0.0180(2) -0.00544(19) 0.00573(19) -0.00130(18)
 Si1 0.0212(3) 0.0140(3) 0.0174(3) 0.0026(2) 0.0040(2) -0.0025(2)
 Si2 0.0178(3) 0.0190(3) 0.0184(3) 0.0012(2) 0.0045(2) -0.0008(2)
 O1 0.0220(7) 0.0171(7) 0.0107(6) -0.0018(5) 0.0026(5) 0.0023(6)
 O2 0.0177(7) 0.0170(7) 0.0150(7) -0.0043(5) 0.0037(5) -0.0023(5)
 O3 0.0278(8) 0.0230(8) 0.0166(7) -0.0005(6) 0.0028(6) 0.0063(6)
 N 0.0207(8) 0.0155(8) 0.0152(8) 0.0013(7) 0.0052(7) -0.0002(7)
 C1 0.0172(9) 0.0121(9) 0.0120(9) -0.0005(7) 0.0052(7) -0.0029(7)
 C2 0.0185(9) 0.0099(8) 0.0134(9) -0.0017(7) 0.0067(7) -0.0010(7)
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 C4 0.0193(9) 0.0163(9) 0.0111(9) 0.0000(7) 0.0037(7) -0.0025(7)
 C5 0.0194(9) 0.0140(9) 0.0141(9) -0.0017(7) 0.0065(7) -0.0011(7)
 C6 0.0167(9) 0.0117(9) 0.0143(9) -0.0012(7) 0.0037(7) -0.0018(7)
 C7 0.0310(11) 0.0235(11) 0.0136(10) -0.0017(8) 0.0021(8) 0.0025(9)
 C8 0.0224(10) 0.0141(9) 0.0140(9) -0.0017(7) 0.0034(8) 0.0038(8)
 C9 0.0361(13) 0.0272(12) 0.0201(11) -0.0025(9) 0.0033(9) 0.0168(10)
 C10 0.0320(12) 0.0161(10) 0.0203(11) 0.0023(8) 0.0037(9) 0.0011(8)
 C11 0.0188(10) 0.0267(11) 0.0252(11) 0.0003(9) 0.0021(8) 0.0027(8)
 C12 0.0278(11) 0.0163(10) 0.0163(10) -0.0006(8) 0.0091(8) -0.0054(8)
 C13 0.0272(10) 0.0117(9) 0.0162(10) -0.0001(7) 0.0107(8) -0.0049(8)
 C14 0.0240(10) 0.0147(10) 0.0177(10) 0.0003(8) 0.0106(8) -0.0048(8)
 C15 0.0291(11) 0.0183(10) 0.0201(10) -0.0037(8) 0.0054(9) -0.0071(8)

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C16 0.0364(12) 0.0162(10) 0.0268(12) -0.0074(9) 0.0118(10) -0.0051(9)
C17 0.0281(11) 0.0163(10) 0.0338(13) -0.0015(9) 0.0106(10) 0.0003(9)
C18 0.0256(11) 0.0181(10) 0.0212(11) 0.0000(8) 0.0027(9) -0.0032(8)
C19 0.0228(10) 0.0234(11) 0.0191(10) -0.0026(8) 0.0093(8) -0.0055(8)
C20 0.0210(10) 0.0174(10) 0.0133(9) -0.0037(8) 0.0028(8) 0.0001(8)
C21 0.0204(10) 0.0139(9) 0.0138(9) -0.0001(7) 0.0022(7) -0.0006(7)
C22 0.0255(10) 0.0169(10) 0.0131(9) -0.0019(8) 0.0034(8) 0.0007(8)
C23 0.0335(12) 0.0208(11) 0.0134(10) -0.0052(8) 0.0030(9) -0.0038(9)
C24 0.0301(12) 0.0214(11) 0.0176(10) -0.0025(8) -0.0011(9) -0.0055(9)
C25 0.0202(10) 0.0238(11) 0.0197(10) -0.0003(8) 0.0012(8) -0.0025(8)
C26 0.0375(13) 0.0344(14) 0.0242(12) -0.0070(10) 0.0011(10) -0.0156(11)
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C36 0.070(2) 0.0458(17) 0.0302(14) -0.0131(13) -0.0203(14) 0.0331(15)
C37 0.087(2) 0.0253(13) 0.0236(13) 0.0048(11) -0.0064(14) 0.0085(14)
C38 0.0460(14) 0.0349(13) 0.0155(11) 0.0052(10) 0.0049(10) 0.0072(11)

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

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Y S2 2.9736(9) . ?
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Y Si2 3.4809(12) . ?
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Si1 C31 1.866(2) . ?
Si1 C32 1.869(2) . ?
Si1 H1 1.35(2) . ?
Si2 N 1.7092(18) . ?

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S2 Y N Si2 -70.8(5) ?
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C21 C22 C27 C30 -175.3(2) . . . . ?
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Y O3 C35 C36 -179.43(18) . . . . ?
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loop_

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C5 C 0.1096(2) -0.1993(4) 0.4144(4) 0.038(2) Uani 1 1 d . . .
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C7 C 0.1491(2) -0.2674(5) 0.3888(5) 0.059(3) Uani 1 1 d . . .
H7A H 0.1399 -0.2713 0.3426 0.089 Uiso 1 1 calc R . .
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H7C H 0.1697 -0.2641 0.3949 0.089 Uiso 1 1 calc R . .
C8 C 0.06708(18) -0.1412(4) 0.4378(4) 0.032(2) Uani 1 1 d . . .
C9 C 0.0505(2) -0.2017(5) 0.4041(5) 0.049(3) Uani 1 1 d . . .
H9A H 0.0537 -0.2066 0.3608 0.074 Uiso 1 1 calc R . .
H9B H 0.0302 -0.1955 0.4004 0.074 Uiso 1 1 calc R . .
H9C H 0.0572 -0.2414 0.4295 0.074 Uiso 1 1 calc R . .
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H10A H 0.0741 -0.1771 0.5319 0.059 Uiso 1 1 calc R . .
H10B H 0.0435 -0.1435 0.5067 0.059 Uiso 1 1 calc R . .
H10C H 0.0713 -0.0984 0.5284 0.059 Uiso 1 1 calc R . .
C11 C 0.05365(18) -0.0795(5) 0.4012(4) 0.041(2) Uani 1 1 d . . .
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C12 C 0.16711(18) 0.0005(5) 0.4083(4) 0.038(2) Uani 1 1 d . . .
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H12B H 0.1480 0.0197 0.3901 0.046 Uiso 1 1 calc R . .
C13 C 0.1894(2) 0.0526(6) 0.4114(4) 0.050(3) Uani 1 1 d . . .
C14 C 0.2174(2) 0.0330(7) 0.4275(4) 0.067(4) Uani 1 1 d . . .
H14 H 0.2219 -0.0122 0.4366 0.080 Uiso 1 1 calc R . .
C15 C 0.2393(3) 0.0782(10) 0.4308(6) 0.090(6) Uani 1 1 d . . .
H15 H 0.2585 0.0637 0.4401 0.108 Uiso 1 1 calc R . .
C16 C 0.2329(3) 0.1436(9) 0.4206(6) 0.089(6) Uani 1 1 d . . .
H16 H 0.2478 0.1748 0.4249 0.106 Uiso 1 1 calc R . .
C17 C 0.2045(3) 0.1654(7) 0.4038(5) 0.075(4) Uani 1 1 d . . .
H17 H 0.2001 0.2107 0.3955 0.090 Uiso 1 1 calc R . .
C18 C 0.1829(2) 0.1182(6) 0.3996(5) 0.055(3) Uani 1 1 d . . .
C19 C 0.1533(3) 0.1431(6) 0.3789(5) 0.061(3) Uani 1 1 d . . .
H19A H 0.1424 0.1161 0.3425 0.074 Uiso 1 1 calc R . .
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C20 C 0.09928(19) 0.1372(4) 0.4090(4) 0.032(2) Uani 1 1 d . . .

C21 C 0.0820(2) 0.1291(4) 0.4534(4) 0.032(2) Uani 1 1 d . . .
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 C23 C 0.0418(2) 0.1259(4) 0.3646(4) 0.039(2) Uani 1 1 d . . .
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 C25 C 0.0865(2) 0.1442(4) 0.3433(4) 0.040(2) Uani 1 1 d . . .
 H25 H 0.0978 0.1519 0.3138 0.048 Uiso 1 1 calc R . . .
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 H26A H 0.0547 0.1340 0.2238 0.124 Uiso 1 1 calc R . . .
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 C28 C 0.00449(19) 0.0808(5) 0.4409(5) 0.045(2) Uani 1 1 d . . .
 H28A H 0.0074 0.0407 0.4179 0.067 Uiso 1 1 calc R . . .
 H28B H -0.0058 0.1134 0.4099 0.067 Uiso 1 1 calc R . . .
 H28C H -0.0066 0.0701 0.4719 0.067 Uiso 1 1 calc R . . .
 C29 C 0.0285(2) 0.1761(4) 0.5059(5) 0.044(2) Uani 1 1 d . . .
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 H29C H 0.0467 0.1946 0.5300 0.066 Uiso 1 1 calc R . . .
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 H30A H 0.0322 0.0491 0.5547 0.052 Uiso 1 1 calc R . . .
 H30B H 0.0627 0.0826 0.5622 0.052 Uiso 1 1 calc R . . .
 H30C H 0.0531 0.0219 0.5137 0.052 Uiso 1 1 calc R . . .
 C31 C 0.1503(2) -0.0770(6) 0.6734(4) 0.053(3) Uani 1 1 d . . .
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 C35A C 0.1723(5) -0.1685(11) 0.7297(10) 0.038(5) Uiso 0.50 1 d P A 1
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 C36A C 0.1768(4) -0.1072(9) 0.7051(8) 0.027(4) Uiso 0.50 1 d P A 1
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 H37B H 0.1262 -0.2625 0.7733 0.066 Uiso 0.50 1 calc PR A 1
 H37C H 0.1596 -0.2749 0.7857 0.066 Uiso 0.50 1 calc PR A 1
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 H39C H 0.1999 -0.0381 0.6229 0.065 Uiso 0.50 1 calc PR A 1
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H37F H 0.1028 -0.2745 0.7341 0.110 Uiso 0.50 1 calc PR A 2
C38B C 0.1993(6) -0.1222(15) 0.7041(13) 0.070(8) Uiso 0.50 1 d P A 2
C39B C 0.2044(5) -0.1128(12) 0.6343(11) 0.063(6) Uiso 0.50 1 d P A 2
H39D H 0.2036 -0.0658 0.6235 0.095 Uiso 0.50 1 calc PR A 2
H39E H 0.1896 -0.1364 0.6025 0.095 Uiso 0.50 1 calc PR A 2
H39F H 0.2231 -0.1305 0.6339 0.095 Uiso 0.50 1 calc PR A 2
C40B C 0.2095(6) -0.0623(16) 0.7397(15) 0.082(8) Uiso 0.50 1 d P A 2
H40D H 0.2053 -0.0639 0.7822 0.122 Uiso 0.50 1 calc PR A 2
H40E H 0.2001 -0.0240 0.7157 0.122 Uiso 0.50 1 calc PR A 2
H40F H 0.2301 -0.0586 0.7454 0.122 Uiso 0.50 1 calc PR A 2
C41B C 0.2172(7) -0.1843(17) 0.7335(16) 0.115(11) Uiso 0.50 1 d P A 2
H41D H 0.2368 -0.1788 0.7301 0.173 Uiso 0.50 1 calc PR A 2
H41E H 0.2089 -0.2238 0.7097 0.173 Uiso 0.50 1 calc PR A 2
H41F H 0.2171 -0.1889 0.7791 0.173 Uiso 0.50 1 calc PR A 2
C42 C 0.09608(17) -0.0018(4) 0.7257(4) 0.0272(18) Uani 1 1 d . . .
H42A H 0.0945 -0.0364 0.7573 0.033 Uiso 1 1 calc R . .
H42B H 0.1146 0.0207 0.7419 0.033 Uiso 1 1 calc R . .
C43 C 0.07218(17) 0.0477(4) 0.7198(4) 0.0270(18) Uani 1 1 d . . .
C44 C 0.04432(18) 0.0243(5) 0.7036(4) 0.036(2) Uani 1 1 d . . .
H44 H 0.0411 -0.0217 0.6974 0.043 Uiso 1 1 calc R . .
C45 C 0.0216(2) 0.0657(6) 0.6964(4) 0.052(3) Uani 1 1 d . . .
H45 H 0.0029 0.0486 0.6846 0.063 Uiso 1 1 calc R . .
C46 C 0.0261(2) 0.1324(6) 0.7064(5) 0.053(3) Uani 1 1 d . . .
H46 H 0.0104 0.1617 0.7015 0.064 Uiso 1 1 calc R . .
C47 C 0.0535(2) 0.1563(5) 0.7235(4) 0.044(3) Uani 1 1 d . . .
H47 H 0.0564 0.2023 0.7306 0.053 Uiso 1 1 calc R . .
C48 C 0.07762(19) 0.1147(4) 0.7311(4) 0.0295(19) Uani 1 1 d . . .
C49 C 0.10653(19) 0.1431(4) 0.7496(4) 0.033(2) Uani 1 1 d . . .
H49A H 0.1189 0.1163 0.7841 0.040 Uiso 1 1 calc R . .
H49B H 0.1059 0.1886 0.7658 0.040 Uiso 1 1 calc R . .
C50 C 0.15709(19) 0.1489(4) 0.7077(4) 0.034(2) Uani 1 1 d . . .
C51 C 0.1714(2) 0.1526(5) 0.6582(4) 0.041(2) Uani 1 1 d . . .
C52 C 0.2006(2) 0.1575(6) 0.6730(4) 0.054(3) Uani 1 1 d . . .
C53 C 0.2149(2) 0.1586(6) 0.7388(5) 0.064(4) Uani 1 1 d . . .
H53 H 0.2350 0.1624 0.7501 0.077 Uiso 1 1 calc R . .
C54 C 0.2013(2) 0.1545(6) 0.7880(4) 0.055(3) Uani 1 1 d . . .
C55 C 0.1721(2) 0.1499(5) 0.7727(4) 0.043(2) Uani 1 1 d . . .
H55 H 0.1623 0.1474 0.8059 0.052 Uiso 1 1 calc R . .
C56 C 0.2185(2) 0.1577(7) 0.8585(4) 0.066(4) Uani 1 1 d . . .
H56A H 0.2387 0.1602 0.8602 0.099 Uiso 1 1 calc R . .
H56B H 0.2148 0.1181 0.8813 0.099 Uiso 1 1 calc R . .
H56C H 0.2129 0.1969 0.8792 0.099 Uiso 1 1 calc R . .
C57 C 0.2174(2) 0.1630(8) 0.6211(5) 0.077(5) Uani 1 1 d . . .
C58 C 0.2493(3) 0.1728(10) 0.6506(6) 0.134(8) Uani 1 1 d . . .
H58A H 0.2522 0.2114 0.6791 0.201 Uiso 1 1 calc R . .
H58B H 0.2589 0.1797 0.6160 0.201 Uiso 1 1 calc R . .
H58C H 0.2571 0.1336 0.6757 0.201 Uiso 1 1 calc R . .
C59 C 0.2135(2) 0.0982(7) 0.5824(5) 0.080(4) Uani 1 1 d . . .
H59A H 0.2202 0.0612 0.6117 0.120 Uiso 1 1 calc R . .
H59B H 0.2244 0.1001 0.5497 0.120 Uiso 1 1 calc R . .
H59C H 0.1933 0.0920 0.5611 0.120 Uiso 1 1 calc R . .
C60 C 0.2063(3) 0.2210(7) 0.5765(5) 0.090(5) Uani 1 1 d . . .
H60A H 0.1863 0.2132 0.5540 0.135 Uiso 1 1 calc R . .
H60B H 0.2175 0.2256 0.5447 0.135 Uiso 1 1 calc R . .
H60C H 0.2078 0.2616 0.6020 0.135 Uiso 1 1 calc R . .
C61 C 0.1266(2) 0.3307(5) 0.6871(4) 0.050(3) Uani 1 1 d . . .

C62 C 0.0983(2) 0.3223(4) 0.6899(4) 0.045(3) Uani 1 1 d . . .
C63 C 0.0883(3) 0.3480(5) 0.7400(4) 0.053(3) Uani 1 1 d . . .
H63 H 0.0693 0.3393 0.7415 0.063 Uiso 1 1 calc R . . .
C64 C 0.1057(3) 0.3862(5) 0.7881(5) 0.062(3) Uani 1 1 d . . .
C65 C 0.1334(3) 0.3968(5) 0.7839(4) 0.066(4) Uani 1 1 d . . .
H65 H 0.1454 0.4233 0.8162 0.079 Uiso 1 1 calc R . . .
C66 C 0.1447(3) 0.3709(5) 0.7356(4) 0.054(3) Uani 1 1 d . . .
C67 C 0.0953(3) 0.4137(7) 0.8432(5) 0.092(5) Uani 1 1 d . . .
H67A H 0.1039 0.3889 0.8827 0.138 Uiso 1 1 calc R . . .
H67B H 0.0746 0.4099 0.8333 0.138 Uiso 1 1 calc R . . .
H67C H 0.1008 0.4602 0.8495 0.138 Uiso 1 1 calc R . . .
C68 C 0.1754(3) 0.3837(6) 0.7353(5) 0.069(4) Uani 1 1 d . . .
C69 C 0.1774(3) 0.4151(7) 0.6715(5) 0.094(5) Uani 1 1 d . . .
H69A H 0.1974 0.4232 0.6726 0.142 Uiso 1 1 calc R . . .
H69B H 0.1671 0.4570 0.6653 0.142 Uiso 1 1 calc R . . .
H69C H 0.1691 0.3853 0.6356 0.142 Uiso 1 1 calc R . . .
C70 C 0.1911(3) 0.4292(7) 0.7901(5) 0.091(5) Uani 1 1 d . . .
H70A H 0.1906 0.4099 0.8318 0.137 Uiso 1 1 calc R . . .
H70B H 0.1819 0.4725 0.7855 0.137 Uiso 1 1 calc R . . .
H70C H 0.2109 0.4342 0.7881 0.137 Uiso 1 1 calc R . . .
C71 C 0.1911(3) 0.3194(7) 0.7434(6) 0.086(5) Uani 1 1 d . . .
H71A H 0.2097 0.3255 0.7344 0.129 Uiso 1 1 calc R . . .
H71B H 0.1801 0.2868 0.7134 0.129 Uiso 1 1 calc R . . .
H71C H 0.1937 0.3037 0.7879 0.129 Uiso 1 1 calc R . . .
C72 C 0.0526(2) 0.3518(4) 0.5877(5) 0.047(3) Uani 1 1 d . . .
H72A H 0.0365 0.3346 0.5536 0.056 Uiso 1 1 calc R . . .
H72B H 0.0446 0.3727 0.6212 0.056 Uiso 1 1 calc R . . .
C73 C 0.0675(3) 0.4033(5) 0.5588(5) 0.055(3) Uani 1 1 d . . .
C74 C 0.0832(3) 0.4512(5) 0.5995(5) 0.069(4) Uani 1 1 d . . .
H74 H 0.0840 0.4502 0.6443 0.082 Uiso 1 1 calc R . . .
C75 C 0.0976(3) 0.5000(6) 0.5762(6) 0.084(5) Uani 1 1 d . . .
H75 H 0.1079 0.5322 0.6050 0.101 Uiso 1 1 calc R . . .
C76 C 0.0973(3) 0.5026(5) 0.5118(5) 0.087(5) Uani 1 1 d . . .
H76 H 0.1076 0.5359 0.4962 0.104 Uiso 1 1 calc R . . .
C77 C 0.0818(3) 0.4563(5) 0.4703(5) 0.077(4) Uani 1 1 d . . .
H77 H 0.0810 0.4588 0.4254 0.093 Uiso 1 1 calc R . . .
C78 C 0.0674(3) 0.4053(5) 0.4931(5) 0.060(3) Uani 1 1 d . . .
C79 C 0.0514(3) 0.3562(5) 0.4459(4) 0.053(3) Uani 1 1 d . . .
H79A H 0.0426 0.3793 0.4049 0.063 Uiso 1 1 calc R . . .
H79B H 0.0358 0.3380 0.4628 0.063 Uiso 1 1 calc R . . .
C80 C 0.0961(2) 0.3310(4) 0.3911(4) 0.047(3) Uani 1 1 d . . .
C81 C 0.1239(2) 0.3418(4) 0.4262(4) 0.046(3) Uani 1 1 d . . .
C82 C 0.1412(3) 0.3853(5) 0.3999(5) 0.063(4) Uani 1 1 d . . .
C83 C 0.1292(3) 0.4115(6) 0.3398(5) 0.078(4) Uani 1 1 d . . .
H83 H 0.1408 0.4394 0.3217 0.093 Uiso 1 1 calc R . . .
C84 C 0.1025(3) 0.4008(5) 0.3046(5) 0.074(4) Uani 1 1 d . . .
C85 C 0.0855(3) 0.3595(5) 0.3307(4) 0.062(3) Uani 1 1 d . . .
H85 H 0.0666 0.3507 0.3071 0.074 Uiso 1 1 calc R . . .
C86 C 0.0905(4) 0.4304(7) 0.2374(5) 0.115(7) Uani 1 1 d . . .
H86A H 0.0971 0.4760 0.2368 0.173 Uiso 1 1 calc R . . .
H86B H 0.0697 0.4300 0.2272 0.173 Uiso 1 1 calc R . . .
H86C H 0.0969 0.4044 0.2052 0.173 Uiso 1 1 calc R . . .
C87 C 0.1711(3) 0.4010(6) 0.4376(5) 0.068(4) Uani 1 1 d . . .
C88 C 0.1859(3) 0.4502(7) 0.4017(6) 0.100(6) Uani 1 1 d . . .
H88A H 0.2064 0.4430 0.4148 0.151 Uiso 1 1 calc R . . .
H88B H 0.1816 0.4954 0.4125 0.151 Uiso 1 1 calc R . . .
H88C H 0.1790 0.4435 0.3550 0.151 Uiso 1 1 calc R . . .

C89 C 0.1715(3) 0.4305(6) 0.5034(5) 0.079(4) Uani 1 1 d . . .
H89A H 0.1609 0.4720 0.4975 0.118 Uiso 1 1 calc R . .
H89B H 0.1912 0.4388 0.5274 0.118 Uiso 1 1 calc R . .
H89C H 0.1627 0.3995 0.5278 0.118 Uiso 1 1 calc R . .
C90 C 0.1888(3) 0.3374(8) 0.4454(6) 0.093(5) Uani 1 1 d . . .
H90A H 0.1818 0.3063 0.4728 0.140 Uiso 1 1 calc R . .
H90B H 0.2087 0.3478 0.4655 0.140 Uiso 1 1 calc R . .
H90C H 0.1872 0.3175 0.4029 0.140 Uiso 1 1 calc R . .
C91 C 0.1249(5) 0.3064(12) 0.0587(12) 0.069(7) Uiso 0.50 1 d P . .
H91A H 0.1154 0.3187 0.0922 0.104 Uiso 0.50 1 calc PR . .
H91B H 0.1195 0.2613 0.0441 0.104 Uiso 0.50 1 calc PR . .
H91C H 0.1193 0.3367 0.0221 0.104 Uiso 0.50 1 calc PR . .
C92 C 0.1514(6) 0.3093(15) 0.0816(15) 0.094(9) Uiso 0.50 1 d P . .
H92A H 0.1603 0.2990 0.0459 0.113 Uiso 0.50 1 calc PR . .
H92B H 0.1567 0.2732 0.1135 0.113 Uiso 0.50 1 calc PR . .
C93 C 0.1632(5) 0.3613(11) 0.1086(11) 0.060(6) Uiso 0.50 1 d P . .
H93A H 0.1568 0.3958 0.0753 0.072 Uiso 0.50 1 calc PR . .
H93B H 0.1530 0.3706 0.1422 0.072 Uiso 0.50 1 calc PR . .
C94 C 0.1870(9) 0.376(2) 0.134(2) 0.144(15) Uiso 0.50 1 d P . .
H94A H 0.1936 0.3828 0.0939 0.172 Uiso 0.50 1 calc PR . .
H94B H 0.1942 0.3314 0.1482 0.172 Uiso 0.50 1 calc PR . .
C95 C 0.2062(6) 0.4100(14) 0.1729(14) 0.088(8) Uiso 0.50 1 d P . .
H95A H 0.2122 0.4467 0.1494 0.132 Uiso 0.50 1 calc PR . .
H95B H 0.2226 0.3819 0.1913 0.132 Uiso 0.50 1 calc PR . .
H95C H 0.1985 0.4275 0.2076 0.132 Uiso 0.50 1 calc PR . .
C96 C 0.2663(3) -0.1934(7) 0.5088(7) 0.086(4) Uiso 1 1 d . . .
H96 H 0.2776 -0.1559 0.5141 0.103 Uiso 1 1 d R . .
C97 C 0.2413(3) -0.1955(7) 0.5261(6) 0.081(4) Uiso 1 1 d . . .
H97 H 0.2350 -0.1575 0.5446 0.097 Uiso 1 1 calc R . .
C98 C 0.2252(3) -0.2500(7) 0.5177(6) 0.079(4) Uiso 1 1 d . . .
H98 H 0.2078 -0.2500 0.5300 0.095 Uiso 0.50 1 calc PR . .
C99 C 0.2829(7) -0.1279(16) 0.5143(16) 0.110(11) Uiso 0.50 1 d P . .
H99A H 0.2938 -0.1215 0.5591 0.165 Uiso 0.50 1 calc PR . .
H99B H 0.2695 -0.0912 0.5014 0.165 Uiso 0.50 1 calc PR . .
H99C H 0.2958 -0.1293 0.4859 0.165 Uiso 0.50 1 calc PR . .
C100 C 0.0283(4) 0.3474(11) 0.0971(9) 0.091(9) Uiso 0.50 1 d PG . .
C101 C 0.0225(5) 0.3031(9) 0.1416(12) 0.101(10) Uiso 0.50 1 d PG . .
H101 H 0.0248 0.2571 0.1362 0.121 Uiso 0.50 1 calc PR . .
C102 C 0.0133(5) 0.3262(14) 0.1941(11) 0.153(15) Uiso 0.50 1 d PG . .
H102 H 0.0093 0.2959 0.2246 0.184 Uiso 0.50 1 calc PR . .
C103 C 0.0100(6) 0.3935(15) 0.2020(11) 0.22(2) Uiso 0.50 1 d PG . .
H103 H 0.0037 0.4092 0.2379 0.266 Uiso 0.50 1 calc PR . .
C104 C 0.0158(6) 0.4377(10) 0.1574(14) 0.182(19) Uiso 0.50 1 d PG . .
H104 H 0.0135 0.4838 0.1628 0.218 Uiso 0.50 1 calc PR . .
C105 C 0.0250(4) 0.4147(10) 0.1050(11) 0.095(9) Uiso 0.50 1 d PG . .
H105 H 0.0289 0.4449 0.0745 0.114 Uiso 0.50 1 calc PR . .
C106 C 0.0383(6) 0.3331(15) 0.0584(14) 0.095(9) Uiso 0.50 1 d P . .
H10D H 0.0585 0.3242 0.0770 0.142 Uiso 0.50 1 calc PR . .
H10E H 0.0362 0.3691 0.0270 0.142 Uiso 0.50 1 calc PR . .
H10F H 0.0290 0.2934 0.0368 0.142 Uiso 0.50 1 calc PR . .
C107 C 0.0199(6) 0.6205(13) 0.3274(9) 0.136(14) Uiso 0.50 1 d PG . .
C108 C 0.0256(5) 0.5702(11) 0.2883(14) 0.19(2) Uiso 0.50 1 d PG . .
H108 H 0.0365 0.5331 0.3072 0.231 Uiso 0.50 1 calc PR . .
C109 C 0.0151(5) 0.5740(9) 0.2216(13) 0.109(10) Uiso 0.50 1 d PG . .
H109 H 0.0190 0.5396 0.1949 0.130 Uiso 0.50 1 calc PR . .
C110 C -0.0009(5) 0.6282(11) 0.1940(9) 0.122(12) Uiso 0.50 1 d PG . .
H110 H -0.0080 0.6308 0.1484 0.146 Uiso 0.50 1 calc PR . .

C111 C -0.0065(5) 0.6785(8) 0.2331(10) 0.083(9) Uiso 0.50 1 d PG . .
 H111 H -0.0175 0.7156 0.2142 0.100 Uiso 0.50 1 calc PR . .
 C112 C 0.0039(6) 0.6747(10) 0.2998(9) 0.125(13) Uiso 0.50 1 d PG . .
 H112 H 0.0000 0.7091 0.3265 0.150 Uiso 0.50 1 calc PR . .
 C113 C 0.0192(11) 0.602(3) 0.394(2) 0.21(2) Uiso 0.50 1 d P . .
 H11D H 0.0042 0.6274 0.4064 0.320 Uiso 0.50 1 calc PR . .
 H11E H 0.0375 0.6123 0.4238 0.320 Uiso 0.50 1 calc PR . .
 H11F H 0.0152 0.5550 0.3957 0.320 Uiso 0.50 1 calc PR . .

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 La1 0.0336(3) 0.0356(3) 0.0212(2) -0.0052(2) 0.0119(2) -0.0134(2)
 La2 0.0525(3) 0.0343(3) 0.0227(2) -0.0062(2) 0.0159(2) -0.0256(3)
 S1 0.0284(12) 0.0765(18) 0.0233(11) -0.0043(11) 0.0115(9) -0.0132(12)
 S2 0.0613(17) 0.0498(14) 0.0276(12) -0.0133(11) 0.0251(12) -0.0321(13)
 S3 0.0390(12) 0.0276(11) 0.0253(10) -0.0015(9) 0.0167(9) -0.0011(9)
 S4 0.0373(13) 0.0319(11) 0.0227(10) -0.0059(9) 0.0161(9) -0.0132(9)
 S5 0.0655(17) 0.0281(12) 0.0289(11) -0.0003(9) 0.0175(11) -0.0110(11)
 S6 0.0657(17) 0.0263(11) 0.0312(12) -0.0036(9) 0.0170(12) -0.0150(11)
 O1 0.027(3) 0.028(3) 0.030(3) -0.007(2) 0.011(2) 0.003(2)
 O2 0.032(3) 0.039(3) 0.023(3) -0.001(2) 0.011(3) -0.018(3)
 O3 0.031(4) 0.090(6) 0.029(3) -0.001(4) 0.012(3) 0.008(4)
 O4 0.037(3) 0.051(4) 0.022(3) -0.010(3) 0.016(3) -0.025(3)
 O5 0.077(5) 0.045(4) 0.031(3) -0.012(3) 0.023(3) -0.035(4)
 O6 0.071(5) 0.049(4) 0.029(3) 0.002(3) 0.020(3) -0.033(4)
 C1 0.024(4) 0.037(5) 0.015(4) 0.004(3) 0.001(3) -0.001(4)
 C2 0.030(5) 0.054(6) 0.020(4) 0.007(4) 0.009(4) -0.004(4)
 C3 0.036(5) 0.058(6) 0.025(5) 0.010(4) 0.016(4) 0.019(5)
 C4 0.060(7) 0.041(5) 0.028(5) 0.010(4) 0.025(5) 0.021(5)
 C5 0.051(6) 0.036(5) 0.033(5) -0.002(4) 0.019(4) -0.001(4)
 C6 0.032(5) 0.029(4) 0.022(4) 0.003(3) 0.012(4) 0.007(4)
 C7 0.074(8) 0.049(7) 0.066(7) 0.011(5) 0.040(6) 0.033(6)
 C8 0.028(5) 0.038(5) 0.032(5) -0.016(4) 0.010(4) -0.013(4)
 C9 0.044(6) 0.056(6) 0.053(6) -0.028(5) 0.021(5) -0.024(5)
 C10 0.037(5) 0.048(6) 0.041(5) -0.017(4) 0.025(4) -0.005(4)
 C11 0.024(5) 0.052(6) 0.044(5) -0.008(5) 0.004(4) 0.008(4)
 C12 0.033(5) 0.065(6) 0.020(4) -0.008(4) 0.013(4) -0.024(5)
 C13 0.048(6) 0.084(9) 0.025(5) -0.022(5) 0.022(4) -0.039(6)
 C14 0.046(7) 0.129(11) 0.031(5) -0.022(6) 0.023(5) -0.040(7)
 C15 0.052(8) 0.182(16) 0.048(7) -0.049(10) 0.037(6) -0.066(10)
 C16 0.088(11) 0.145(14) 0.044(7) -0.051(9) 0.038(7) -0.085(11)
 C17 0.091(10) 0.103(10) 0.048(7) -0.030(7) 0.049(7) -0.061(8)
 C18 0.047(7) 0.095(9) 0.033(5) -0.029(6) 0.031(5) -0.043(6)
 C19 0.097(10) 0.065(7) 0.036(6) -0.020(5) 0.044(6) -0.048(7)
 C20 0.052(6) 0.021(4) 0.026(4) 0.001(3) 0.013(4) -0.008(4)
 C21 0.053(6) 0.022(4) 0.023(4) -0.003(3) 0.016(4) -0.012(4)
 C22 0.045(5) 0.016(4) 0.023(4) 0.000(3) 0.005(4) -0.008(4)
 C23 0.050(6) 0.027(5) 0.031(5) -0.007(4) -0.008(4) 0.017(4)
 C24 0.076(8) 0.034(5) 0.022(5) -0.003(4) 0.008(5) 0.021(5)
 C25 0.076(8) 0.026(5) 0.022(4) -0.001(4) 0.022(5) 0.006(5)
 C26 0.125(12) 0.096(10) 0.021(5) -0.002(6) 0.010(6) 0.054(9)

C27 0.041(5) 0.024(4) 0.028(4) -0.002(4) 0.007(4) -0.002(4)
C28 0.033(5) 0.042(6) 0.053(6) -0.009(5) -0.001(5) -0.001(4)
C29 0.051(6) 0.034(5) 0.051(6) -0.010(4) 0.018(5) -0.003(4)
C30 0.026(5) 0.041(5) 0.039(5) 0.010(4) 0.013(4) 0.002(4)
C31 0.057(7) 0.084(8) 0.023(5) 0.009(5) 0.020(5) 0.041(6)
C32 0.074(7) 0.031(5) 0.025(4) 0.006(4) 0.024(5) 0.023(5)
C42 0.031(5) 0.032(5) 0.022(4) -0.002(3) 0.013(4) 0.003(4)
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;
All esds (except the esd in the dihedral angle between two l.s. planes)
are estimated using the full covariance matrix. The cell esds are taken
into account individually in the estimation of esds in distances, angles
and torsion angles; correlations between esds in cell parameters are only
used when they are defined by crystal symmetry. An approximate (isotropic)
treatment of cell esds is used for estimating esds involving l.s. planes.
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C38A C40A H40A 109.5 . . ?
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C38A C40A H40C 109.5 . . ?
H40A C40A H40C 109.5 . . ?
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C38A C41A H41A 109.5 . . ?
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C41B C38B C39B 106(2) . . ?
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C38B C39B H39E 109.5 . . ?
H39D C39B H39E 109.5 . . ?
C38B C39B H39F 109.5 . . ?
H39D C39B H39F 109.5 . . ?
H39E C39B H39F 109.5 . . ?
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C38B C40B H40E 109.5 . . ?
H40D C40B H40E 109.5 . . ?
C38B C40B H40F 109.5 . . ?
H40D C40B H40F 109.5 . . ?
H40E C40B H40F 109.5 . . ?
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C38B C41B H41E 109.5 . . ?
H41D C41B H41E 109.5 . . ?
C38B C41B H41F 109.5 . . ?
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H41E C41B H41F 109.5 . . ?
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C60 C57 C59 110.3(9) . . ?
C58 C57 C59 108.0(12) . . ?
C60 C57 C52 109.6(11) . . ?
C58 C57 C52 112.3(8) . . ?
C59 C57 C52 108.0(9) . . ?
C57 C58 H58A 109.5 . . ?
C57 C58 H58B 109.5 . . ?
H58A C58 H58B 109.5 . . ?
C57 C58 H58C 109.5 . . ?
H58A C58 H58C 109.5 . . ?
H58B C58 H58C 109.5 . . ?
C57 C59 H59A 109.5 . . ?
C57 C59 H59B 109.5 . . ?
H59A C59 H59B 109.5 . . ?

C57 C59 H59C 109.5 . . ?
H59A C59 H59C 109.5 . . ?
H59B C59 H59C 109.5 . . ?
C57 C60 H60A 109.5 . . ?
C57 C60 H60B 109.5 . . ?
H60A C60 H60B 109.5 . . ?
C57 C60 H60C 109.5 . . ?
H60A C60 H60C 109.5 . . ?
H60B C60 H60C 109.5 . . ?
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C62 C61 C66 117.8(9) . . ?
C63 C62 C61 121.9(9) . . ?
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C61 C62 S5 117.5(7) . . ?
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C62 C63 H63 119.6 . . ?
C64 C63 H63 119.6 . . ?
C63 C64 C65 117.2(9) . . ?
C63 C64 C67 121.7(11) . . ?
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C61 C66 C68 121.2(9) . . ?
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C64 C67 H67B 109.5 . . ?
H67A C67 H67B 109.5 . . ?
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C71 C68 C70 107.1(12) . . ?
C66 C68 C70 113.5(10) . . ?
C69 C68 C70 107.4(9) . . ?
C68 C69 H69A 109.5 . . ?
C68 C69 H69B 109.5 . . ?
H69A C69 H69B 109.5 . . ?
C68 C69 H69C 109.5 . . ?
H69A C69 H69C 109.5 . . ?
H69B C69 H69C 109.5 . . ?
C68 C70 H70A 109.5 . . ?
C68 C70 H70B 109.5 . . ?
H70A C70 H70B 109.5 . . ?
C68 C70 H70C 109.5 . . ?
H70A C70 H70C 109.5 . . ?
H70B C70 H70C 109.5 . . ?
C68 C71 H71A 109.5 . . ?
C68 C71 H71B 109.5 . . ?
H71A C71 H71B 109.5 . . ?
C68 C71 H71C 109.5 . . ?
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H71B C71 H71C 109.5 . . ?

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C73 C72 H72B 108.6 . . ?
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H72A C72 H72B 107.6 . . ?
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C78 C79 S6 114.9(8) . . ?
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H79A C79 H79B 107.5 . . ?
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C85 C80 S6 119.6(9) . . ?
C81 C80 S6 118.9(7) . . ?
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C84 C86 H86B 109.5 . . ?
H86A C86 H86B 109.5 . . ?
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H86A C86 H86C 109.5 . . ?
H86B C86 H86C 109.5 . . ?
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C89 C87 C90 110.6(11) . . ?

C82 C87 C88 112.3(10) . . ?
C89 C87 C88 107.9(9) . . ?
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C87 C88 H88B 109.5 . . ?
H88A C88 H88B 109.5 . . ?
C87 C88 H88C 109.5 . . ?
H88A C88 H88C 109.5 . . ?
H88B C88 H88C 109.5 . . ?
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C87 C89 H89B 109.5 . . ?
H89A C89 H89B 109.5 . . ?
C87 C89 H89C 109.5 . . ?
H89A C89 H89C 109.5 . . ?
H89B C89 H89C 109.5 . . ?
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C87 C90 H90B 109.5 . . ?
H90A C90 H90B 109.5 . . ?
C87 C90 H90C 109.5 . . ?
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H90B C90 H90C 109.5 . . ?
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C92 C91 H91B 109.5 . . ?
H91A C91 H91B 109.5 . . ?
C92 C91 H91C 109.5 . . ?
H91A C91 H91C 109.5 . . ?
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C93 C92 H92A 107.1 . . ?
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C93 C94 H94B 98.2 . . ?
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C94 C95 H95B 109.5 . . ?
H95A C95 H95B 109.5 . . ?
C94 C95 H95C 109.5 . . ?
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C96 C99 H99C 109.5 . . ?
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H99B C99 H99C 109.5 . . ?
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C106 C100 C105 116(3) . . ?
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 S3 C32 C33A C34A -174.9(13) ?
 C32 C33A C34A C35A 11(2) ?
 C32 C33A C34A C37A -177.1(16) ?
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 C37A C34A C35A C36A 180.0(18) ?
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 C34A C35A C36A C38A -176.0(19) ?
 O3 C31 C36A C35A -176.6(13) ?
 C32 C31 C36A C35A 10(2) ?
 C36B C31 C36A C35A -23(2) ?
 O3 C31 C36A C38A -3(3) ?

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C36B C31 C36A C38A 150(4) ?
C35A C36A C38A C41A -3(3) ?
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C35A C36A C38A C39A 120.6(19) ?
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C35A C36A C38A C40A -126.4(18) ?
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O3 C31 C36B C35B -178.0(17) ?
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O3 C31 C36B C38B 11(3) ?
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La1 O4 C51 C52 112.4(10) ?

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La2 O6 C81 C82 -179.5(7) ?
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C81 C82 C87 C88 -178.5(11) ?
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