

No syntax errors found. CIF dictionary Interpreting this report

Datablock: 2_ZnL.MeOH

Bond precision: C-C = 0.0048 Å Wavelength=0.71073

Cell: a=17.428(4) b=13.517(3) c=17.588(4)
alpha=90 beta=100.24(3) gamma=90

Temperature: 293 K

	Calculated	Reported
Volume	4077.3(16)	4077.5(14)
Space group	P 21	P2(1)
Hall group	P 2yb	?
Moiety formula	C42 H46 N4 O2 Zn, C H4 O	?
Sum formula	C43 H50 N4 O3 Zn	C86 H100 N8 O6 Zn2
Mr	736.26	1472.48
Dx, g cm-3	1.199	1.199
Z	4	2
Mu (mm-1)	0.644	0.644
F000	1560.0	1560.0
F000'	1561.64	
h, k, lmax	20, 16, 20	20, 16, 20
Nref	7512[14360]	12720
Tmin, Tmax	0.911, 0.938	0.900, 0.920
Tmin'	0.908	

Correction method= MULTI-SCAN

Data completeness= 1.69/0.89 Theta(max)= 25.000

R(reflections)= 0.0720(7056) wR2(reflections)= 0.2292(12720)

S = 1.065 Npar= 796

The following ALERTS were generated. Each ALERT has the format

test-name_ALERT_alert-type_alert-level.

Click on the hyperlinks for more details of the test.

** Alert level A**

PLAT213_ALERT_2_A Atom C16	has ADP max/min Ratio	5.20 prola
PLAT213_ALERT_2_A Atom C84	has ADP max/min Ratio	5.50 prola
PLAT220_ALERT_2_A Large Non-Solvent C	Ueq(max)/Ueq(min) ...	5.70 Ratio
PLAT220_ALERT_2_A Large Non-Solvent C	Ueq(max)/Ueq(min) ...	7.91 Ratio
PLAT241_ALERT_2_A Check High	Ueq as Compared to Neighbors for	C83
PLAT241_ALERT_2_A Check High	Ueq as Compared to Neighbors for	C84

PLAT242_ALERT_2_A Check Low Ueq as Compared to Neighbors for C80
 PLAT242_ALERT_2_A Check Low Ueq as Compared to Neighbors for C81
 PLAT242_ALERT_2_A Check Low Ueq as Compared to Neighbors for C82
 PLAT242_ALERT_2_A Check Low Ueq as Compared to Neighbors for C81

● Alert level B

PLAT111_ALERT_2_B ADDSYM Detects (Pseudo) Centre of Symmetry 90 PerFi
 PLAT213_ALERT_2_B Atom C15 has ADP max/min Ratio 4.60 prola
 PLAT213_ALERT_2_B Atom C57 has ADP max/min Ratio 4.70 prola
 PLAT220_ALERT_2_B Large Non-Solvent N Ueq(max)/Ueq(min) ... 4.51 Ratio
 PLAT230_ALERT_2_B Hirshfeld Test Diff for O2 -- C27 .. 22.80 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for N2 -- C19 .. 9.91 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for N4 -- C40 .. 10.28 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C2 -- C3 .. 8.45 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C9 -- C10 .. 7.05 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C10 -- C18 .. 7.84 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C11 -- C12 .. 20.03 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C14 -- C16 .. 12.98 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C25 -- C26 .. 7.35 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C28 -- C36 .. 10.43 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C29 -- C30 .. 11.42 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C36 -- C37 .. 12.73 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for O3 -- C51 .. 16.58 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for O4 -- C69 .. 13.39 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for N6 -- C60 .. 8.64 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for N8 -- C82 .. 12.08 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C46 -- C47 .. 10.09 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C51 -- C52 .. 7.73 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C54 -- C55 .. 7.49 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C61 -- C66 .. 19.88 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C63 -- C64 .. 8.87 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C68 -- C69 .. 15.01 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C69 -- C70 .. 7.51 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C78 -- C79 .. 10.69 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C80 -- C81 .. 10.05 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C80 -- C84 .. 13.01 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C81 -- C82 .. 7.18 su
 PLAT230_ALERT_2_B Hirshfeld Test Diff for C83 -- C84 .. 8.97 su
 PLAT232_ALERT_2_B Hirshfeld Test Diff (M-X) Zn1 -- N2 .. 13.40 su
 PLAT232_ALERT_2_B Hirshfeld Test Diff (M-X) Zn2 -- O3 .. 10.13 su
 PLAT232_ALERT_2_B Hirshfeld Test Diff (M-X) Zn2 -- O4 .. 10.98 su
 PLAT232_ALERT_2_B Hirshfeld Test Diff (M-X) Zn2 -- N5_c .. 13.64 su
 PLAT242_ALERT_2_B Check Low Ueq as Compared to Neighbors for N8
 PLAT242_ALERT_2_B Check Low Ueq as Compared to Neighbors for C56
 PLAT242_ALERT_2_B Check Low Ueq as Compared to Neighbors for C74
 PLAT412_ALERT_2_B Short Intra XH3 .. XHn H58C .. H59B .. 1.79 Ang.
 PLAT413_ALERT_2_B Short Inter XH3 .. XHn H34C .. H85A .. 2.01 Ang.

● Alert level C

CELLV02_ALERT_1_C The supplied cell volume s.u. differs from that
 calculated from the cell parameter s.u.'s by > 2
 Calculated cell volume su = 16.44
 Cell volume su given = 14.00
 PLAT202_ALERT_3_C Isotropic non-H Atoms in Anion/Solvent 4
 PLAT213_ALERT_2_C Atom C33 has ADP max/min Ratio 3.20 prola
 PLAT213_ALERT_2_C Atom N8 has ADP max/min Ratio 3.10 prola
 PLAT213_ALERT_2_C Atom C83 has ADP max/min Ratio 3.50 prola
 PLAT222_ALERT_3_C Large Non-Solvent H Uiso(max)/Uiso(min) ... 6.64 Ratio
 PLAT222_ALERT_3_C Large Non-Solvent H Uiso(max)/Uiso(min) ... 6.75 Ratio

PLAT230_ALERT_2_C Hirshfeld Test Diff for 01 Supplementary Material (ESI) for Chemical Communications
 PLAT230_ALERT_2_C Hirshfeld Test Diff for N1 This journal is (c) The Royal Society of Chemistry 2011
 PLAT230_ALERT_2_C Hirshfeld Test Diff for N3 -- C25 .. 6.87 su
 PLAT230_ALERT_2_C Hirshfeld Test Diff for C3 -- C4 .. 5.84 su
 PLAT230_ALERT_2_C Hirshfeld Test Diff for C6 -- C7 .. 6.48 su
 PLAT230_ALERT_2_C Hirshfeld Test Diff for C26 -- C31 .. 5.28 su
 PLAT230_ALERT_2_C Hirshfeld Test Diff for C32 -- C34 .. 6.72 su
 PLAT230_ALERT_2_C Hirshfeld Test Diff for C38 -- C42 .. 6.43 su
 PLAT230_ALERT_2_C Hirshfeld Test Diff for N7 -- C67 .. 5.74 su
 PLAT230_ALERT_2_C Hirshfeld Test Diff for C43 -- C44 .. 5.28 su
 PLAT230_ALERT_2_C Hirshfeld Test Diff for C44 -- C45 .. 5.59 su
 PLAT230_ALERT_2_C Hirshfeld Test Diff for C45 -- C46 .. 5.66 su
 PLAT230_ALERT_2_C Hirshfeld Test Diff for C50 -- C55 .. 6.28 su
 PLAT230_ALERT_2_C Hirshfeld Test Diff for C62 -- C63 .. 6.84 su
 PLAT230_ALERT_2_C Hirshfeld Test Diff for C67 -- C68 .. 5.05 su
 PLAT230_ALERT_2_C Hirshfeld Test Diff for C71 -- C72 .. 6.66 su
 PLAT232_ALERT_2_C Hirshfeld Test Diff (M-X) Zn1 -- O2 .. 9.44 su
 PLAT232_ALERT_2_C Hirshfeld Test Diff (M-X) Zn1 -- N3 .. 7.53 su
 PLAT232_ALERT_2_C Hirshfeld Test Diff (M-X) Zn2 -- N7 .. 5.07 su
 PLAT241_ALERT_2_C Check High Ueq as Compared to Neighbors for C5
 PLAT241_ALERT_2_C Check High Ueq as Compared to Neighbors for C42
 PLAT241_ALERT_2_C Check High Ueq as Compared to Neighbors for C47
 PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for N1
 PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for C3
 PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for N5
 PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for C54
 PLAT250_ALERT_2_C Large U3/U1 Ratio for Average U(i,j) Tensor 2.13
 PLAT360_ALERT_2_C Short C(sp3)-C(sp3) Bond C14 - C15 ... 1.43 Ang.
 PLAT413_ALERT_2_C Short Inter XH3 .. XHn H5A .. H85C .. 2.14 Ang.
 PLAT601_ALERT_2_C Structure Contains Solvent Accessible VOIDS of . 34.00 A**3
 PLAT041_ALERT_1_C Calc. and Reported SumFormula Strings Differ ?
 PLAT045_ALERT_1_C Calculated and Reported Z Differ by 2.00 Ratio
 PLAT152_ALERT_1_C The Supplied and Calc. Volume s.u. Differ by ... 2 Units
 PLAT234_ALERT_4_C Large Hirshfeld Difference N8 -- C83 .. 0.16 Ang.
 PLAT234_ALERT_4_C Large Hirshfeld Difference C56 -- C57 .. 0.16 Ang.

● Alert level G

REFLT03_ALERT_4_G Please check that the estimate of the number of Friedel pairs is correct. If it is not, please give the correct count in the _publ_section_exptl_refinement section of the submitted CIF.

From the CIF: _diffrn_reflns_theta_max 25.00

From the CIF: _reflns_number_total 12720

Count of symmetry unique reflns 7512

Completeness (_total/calc) 169.33%

TEST3: Check Friedels for noncentro structure

Estimate of Friedel pairs measured 5208

Fraction of Friedel pairs measured 0.693

Are heavy atom types Z>Si present yes

PLAT072_ALERT_2_G SHELXL First Parameter in WGHT Unusually Large. 0.12

PLAT343_ALERT_2_G Check sp3 Angle Range in Main Residue for .. C56

PLAT860_ALERT_3_G Note: Number of Least-Squares Restraints 20

PLAT199_ALERT_1_G Check the Reported _cell_measurement_temperature 293 K

PLAT200_ALERT_1_G Check the Reported _diffrn_ambient_temperature 293 K

PLAT791_ALERT_4_G Note: The Model has Chirality at C19 (Verify) R

PLAT791_ALERT_4_G Note: The Model has Chirality at C24 (Verify) R

PLAT791_ALERT_4_G Note: The Model has Chirality at C61 (Verify) R

PLAT791_ALERT_4_G Note: The Model has Chirality at C66 (Verify) R

PLAT794_ALERT_5_G Note: Tentative Bond Valency for Zn1 2.09

PLAT794_ALERT_5_G Note: Tentative Bond Valency for Zn2 2.15

10 **ALERT level A** = In general: serious problem
 41 **ALERT level B** = Potentially serious problem
 42 **ALERT level C** = Check and explain
 12 **ALERT level G** = General alerts; check

6 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
 86 ALERT type 2 Indicator that the structure model may be wrong or deficient
 4 ALERT type 3 Indicator that the structure quality may be low
 7 ALERT type 4 Improvement, methodology, query or suggestion
 2 ALERT type 5 Informative message, check

Publication of your CIF in IUCr Journals

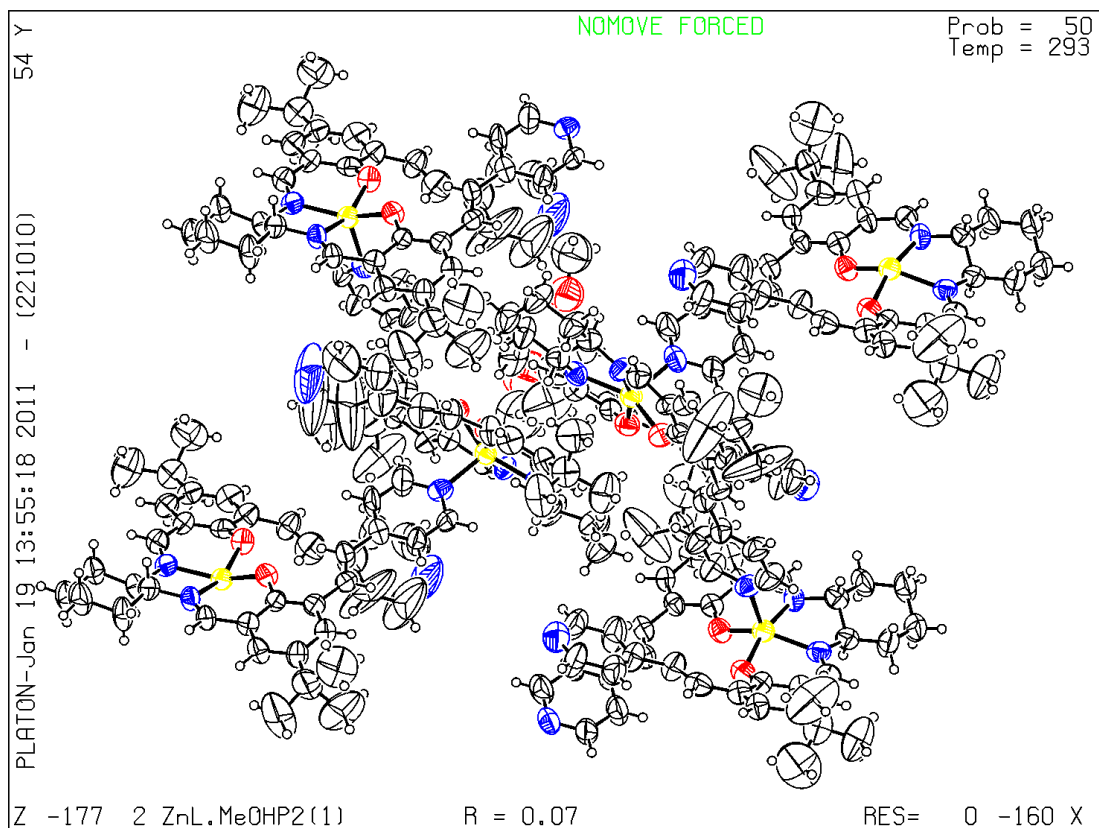
A basic structural check has been run on your CIF. These basic checks will be run on all CIFs submitted for publication in IUCr Journals (*Acta Crystallographica*, *Journal of Applied Crystallography*, *Journal of Synchrotron Radiation*); however, if you intend to submit to *Acta Crystallographica Section C* or *E*, you should make sure that full publication checks are run on the final version of your CIF prior to submission.

Publication of your CIF in other journals

Please refer to the *Notes for Authors* of the relevant journal for any special instructions relating to CIF submission.

PLATON version of 22/10/2010; check.def file version of 11/10/2010

Datablock 2_ZnL.MeOH - ellipsoid plot



No syntax errors found. CIF dictionary Interpreting this report

Datablock: 1_ZnL

Bond precision: C-C = 0.0155 Å

Wavelength=0.71073

Cell: a=12.616(3) b=25.145(5) c=12.892(3)
alpha=90 beta=108.88(3) gamma=90
Temperature: 293 K

	Calculated	Reported
Volume	3869.7(17)	3869.6(13)
Space group	P 21	P2(1)
Hall group	P 2yb	?
Moiety formula	C84 H92 N8 O4 Zn2	?
Sum formula	C84 H92 N8 O4 Zn2	C84 H92 N8 O4 Zn2
Mr	1408.44	1408.40
Dx, g cm-3	1.209	1.209
Z	2	2
Mu (mm-1)	0.673	0.673
F000	1488.0	1488.0
F000'	1489.59	
h, k, lmax	15, 29, 15	14, 29, 15
Nref	6983[13625]	11968
Tmin, Tmax	0.922, 0.948	0.900, 0.920
Tmin'	0.922	

Correction method= MULTI-SCAN

Data completeness= 1.71/0.88 Theta(max)= 25.000

R(reflections)= 0.0744(6620) wR2(reflections)= 0.1501(11968)

S = 1.019

Npar= 787

The following ALERTS were generated. Each ALERT has the format

test-name_ALERT_alert-type_alert-level.

Click on the hyperlinks for more details of the test.

** Alert level A**

PLAT213_ALERT_2_A Atom C75	has ADP max/min Ratio	5.90 prola
PLAT213_ALERT_2_A Atom C76	has ADP max/min Ratio	5.20 prola
PLAT220_ALERT_2_A Large Non-Solvent C	Ueq(max)/Ueq(min) ...	7.52 Ratio
PLAT242_ALERT_2_A Check Low	Ueq as Compared to Neighbors for	C14
PLAT242_ALERT_2_A Check Low	Ueq as Compared to Neighbors for	C56
PLAT242_ALERT_2_A Check Low	Ueq as Compared to Neighbors for	C74

Alert level B

Supplementary Material (ESI) for Chemical Communications

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PLAT029_ALERT_3_B	_diffn_measured_fraction_theta_full	Low		0.96	
PLAT213_ALERT_2_B	Atom C77	has ADP max/min Ratio		4.60	prola
PLAT222_ALERT_3_B	Large Non-Solvent	H	Uiso(max)/Uiso(min)	...	8.56 Ratio
PLAT230_ALERT_2_B	Hirshfeld Test Diff for	C72	-- C78	..	9.45 su
PLAT230_ALERT_2_B	Hirshfeld Test Diff for	C78	-- C79	..	8.50 su
PLAT241_ALERT_2_B	Check High	Ueq as Compared to Neighbors for		C41	
PLAT241_ALERT_2_B	Check High	Ueq as Compared to Neighbors for		C84	
PLAT242_ALERT_2_B	Check Low	Ueq as Compared to Neighbors for		C32	
PLAT115_ALERT_5_B	ADDSYM Detects Noncrystallographic Inversion	...		87	PerFi
PLAT234_ALERT_4_B	Large Hirshfeld Difference	N4	-- C40	..	0.26 Ang.
PLAT234_ALERT_4_B	Large Hirshfeld Difference	C74	-- C76	..	0.28 Ang.

Alert level C

CELLV02_ALERT_1_C The supplied cell volume s.u. differs from that
calculated from the cell parameter s.u.'s by > 2

Calculated cell volume su = 16.52

Cell volume su given = 13.00

PLAT213_ALERT_2_C	Atom C16	has ADP max/min Ratio		3.80	prola
PLAT213_ALERT_2_C	Atom C17	has ADP max/min Ratio		3.60	prola
PLAT213_ALERT_2_C	Atom C74	has ADP max/min Ratio		3.80	prola
PLAT213_ALERT_2_C	Atom C78	has ADP max/min Ratio		3.80	prola
PLAT230_ALERT_2_C	Hirshfeld Test Diff for	C36	-- C37	..	5.89 su
PLAT241_ALERT_2_C	Check High	Ueq as Compared to Neighbors for		C71	
PLAT242_ALERT_2_C	Check Low	Ueq as Compared to Neighbors for		N5	
PLAT242_ALERT_2_C	Check Low	Ueq as Compared to Neighbors for		C39	
PLAT242_ALERT_2_C	Check Low	Ueq as Compared to Neighbors for		C54	
PLAT242_ALERT_2_C	Check Low	Ueq as Compared to Neighbors for		C70	
PLAT242_ALERT_2_C	Check Low	Ueq as Compared to Neighbors for		C72	
PLAT341_ALERT_3_C	Low Bond Precision on	C-C Bonds (x 1000)	Ang	..	15
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C14	- C15	...	1.43 Ang.
PLAT360_ALERT_2_C	Short C(sp3)-C(sp3) Bond	C56	- C59	...	1.41 Ang.
PLAT369_ALERT_2_C	Long C(sp2)-C(sp2) Bond	C72	- C78	...	1.53 Ang.
PLAT369_ALERT_2_C	Long C(sp2)-C(sp2) Bond	C79	- C80	...	1.54 Ang.
PLAT413_ALERT_2_C	Short Inter XH3 .. XHn	H17A	.. H62B	..	2.13 Ang.
PLAT413_ALERT_2_C	Short Inter XH3 .. XHn	H46A	.. H75A	..	2.10 Ang.
PLAT152_ALERT_1_C	The Supplied and Calc. Volume s.u.	Differ by	...	4	Units
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N2	-- C19	..	0.16 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	N4	-- C41	..	0.22 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C1	-- C2	..	0.21 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C7	-- C8	..	0.16 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C9	-- C10	..	0.17 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C27	-- C28	..	0.20 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C28	-- C29	..	0.16 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C29	-- C30	..	0.18 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C30	-- C31	..	0.17 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C30	-- C32	..	0.21 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C32	-- C35	..	0.21 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C38	-- C39	..	0.16 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C50	-- C51	..	0.16 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C52	-- C60	..	0.16 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C53	-- C54	..	0.16 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C54	-- C56	..	0.16 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C79	-- C80	..	0.25 Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference	C81	-- C82	..	0.19 Ang.

Alert level G

REFLT03_ALERT_4_G Please check that the estimate of the number of Friedel pairs is
correct. If it is not, please give the correct count in the

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_publ_section_exptl_refinement section_title
From the CIF: _diffrn_reflns_theta_max 29.00
From the CIF: _reflns_number_total 11968
Count of symmetry unique reflns 6983
Completeness (_total/calc) 171.39%
TEST3: Check Friedels for noncentro structure
Estimate of Friedel pairs measured 4985
Fraction of Friedel pairs measured 0.714
Are heavy atom types Z>Si present yes
PLAT860_ALERT_3_G Note: Number of Least-Squares Restraints ..... 8
PLAT199_ALERT_1_G Check the Reported _cell_measurement_temperature 293 K
PLAT200_ALERT_1_G Check the Reported _diffrn_ambient_temperature 293 K
PLAT791_ALERT_4_G Note: The Model has Chirality at C19 (Verify) R
PLAT791_ALERT_4_G Note: The Model has Chirality at C24 (Verify) R
PLAT791_ALERT_4_G Note: The Model has Chirality at C61 (Verify) R
PLAT791_ALERT_4_G Note: The Model has Chirality at C66 (Verify) R
PLAT794_ALERT_5_G Note: Tentative Bond Valency for Zn1 ..... 2.18
PLAT794_ALERT_5_G Note: Tentative Bond Valency for Zn2 ..... 2.17
    
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 29 ALERT type 2 Indicator that the structure model may be wrong or deficient
 4 ALERT type 3 Indicator that the structure quality may be low
 25 ALERT type 4 Improvement, methodology, query or suggestion
 3 ALERT type 5 Informative message, check

Datablock 1_ZnL - ellipsoid plot

