

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) SGGR2

THIS REPORT IS FOR GUIDANCE ONLY. IF USED AS PART OF A REVIEW PROCEDURE FOR PUBLICATION, IT SHOULD NOT REPLACE THE EXPERTISE OF AN EXPERIENCED CRYSTALLOGRAPHIC REFEREE.

No syntax errors found. CIF dictionary Interpreting this report

Datablock: SGGR2

Bond precision: C-C = 0.0430 A

Wavelength=0.71073

Cell: a=16.8420(15) b=19.051(2) c=19.390(2)
 alpha=85.443(4) beta=79.671(3) gamma=70.858(3)
Temperature: 150 K

	Calculated	Reported
Volume	5780.8(10)	5780.6(10)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C24 H30 B4 O4 W3	C24 H30 B4 O4 W3
Sum formula	C24 H30 B4 O4 W3	C24 H30 B4 O4 W3
Mr	977.24	977.27
Dx,g cm-3	2.246	2.246
Z	8	8
Mu (mm-1)	11.936	11.937
F000	3584.0	3584.0
F000'	3567.09	
h,k,lmax	20,22,23	20,22,23
Nref	20333	20278
Tmin,Tmax	0.147,0.434	0.247,0.434
Tmin'	0.046	

Correction method= # Reported T Limits: Tmin=0.247 Tmax=0.434
AbsCorr = MULTI-SCAN

Data completeness= 0.997

Theta(max)= 25.000

R(reflections)= 0.0880(17986)

wR2(reflections)= 0.1952(20278)

S = 1.135

Npar= 899

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**

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 0.81A From W3 12.63 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 0.88A From C24 10.41 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 0.92A From W21 10.24 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 1.21A From C13 10.00 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 0.82A From W2 9.22 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 1.03A From W2 9.18 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 0.69A From W23 8.62 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 1.74A From C111 8.11 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 1.38A From W12 7.56 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 0.73A From W22 6.52 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 0.31A From W3 5.85 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 1.17A From W32 5.85 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 0.42A From W3 4.72 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 0.31A From W2 4.71 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 1.13A From W11 4.51 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 0.91A From W31 3.69 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT972_ALERT_2_A Check Calcd Resid. Dens. 0.84A From W3 -11.47 eA-3

Author Response: same as above

PLAT972_ALERT_2_A Check Calcd Resid. Dens. 0.87A From W2 -9.09 eA-3

Author Response: same as above

PLAT972_ALERT_2_A Check Calcd Resid. Dens. 0.45A From W3 -4.31 eA-3

Author Response: same as above

PLAT972_ALERT_2_A Check Calcd Resid. Dens. 0.86A From W1 -4.23 eA-3

Author Response: same as above

PLAT972_ALERT_2_A Check Calcd Resid. Dens. 1.29A From C14 -4.23 eA-3

Author Response: same as above

PLAT972_ALERT_2_A Check Calcd Resid. Dens. 0.88A From W21 -3.67 eA-3

Author Response: same as above

PLAT972_ALERT_2_A Check Calcd Resid. Dens. 0.49A From W3 -3.63 eA-3

Author Response: same as above

Alert level B

DIFMN02_ALERT_2_B The minimum difference density is < -0.1*ZMAX*1.00
_refine_diff_density_min given = -12.441
Test value = -7.400

Author Response: The alert is due to spurious electron density peaks. The reason for its appearance may be inadequate absorption correction in this heavy atom structure. However the refined model is correct with respect to the atom assignment.

PLAT097_ALERT_2_B Large Reported Max. (Positive) Residual Density 13.68 eA-3

Author Response: same as above

PLAT098_ALERT_2_B Large Reported Min. (Negative) Residual Density -12.44 eA-3

Author Response: same as above

PLAT213_ALERT_2_B Atom C82 has ADP max/min Ratio 4.1 prolat

Author Response: due to disorder in the structure

PLAT234_ALERT_4_B Large Hirshfeld Difference C72 --C77 . 0.28 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_B Large Hirshfeld Difference C74 --C79 . 0.26 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT342_ALERT_3_B Low Bond Precision on C-C Bonds 0.043 Ang.

Author Response: The structure contains large amount of disordered atom.

PLAT910_ALERT_3_B Missing # of FCF Reflection(s) Below Theta(Min). 35 Note

Author Response: These reflections are cut by the beam stop.

PLAT971_ALERT_2_B Check Calcd Resid. Dens. 1.22A From B12 3.35 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_B Check Calcd Resid. Dens. 0.83A From W32 3.17 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_B Check Calcd Resid. Dens. 0.34A From C24 2.81 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_B Check Calcd Resid. Dens. 0.96A From W33 2.79 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT972_ALERT_2_B Check Calcd Resid. Dens. 0.59A From W1 -3.50 eA-3

Author Response: same as above

PLAT972_ALERT_2_B Check Calcd Resid. Dens. 1.24A From W32 -3.15 eA-3

Author Response: same as above

PLAT972_ALERT_2_B Check Calcd Resid. Dens. 0.95A From B1 -3.11 eA-3

Author Response: same as above

PLAT972_ALERT_2_B Check Calcd Resid. Dens. 1.40A From W13 -3.09 eA-3

Author Response: same as above

PLAT972_ALERT_2_B Check Calcd Resid. Dens. 0.87A From W1 -3.05 eA-3

Author Response: same as above

PLAT972_ALERT_2_B Check Calcd Resid. Dens. 0.69A From W23 -2.96 eA-3

Author Response: same as above

PLAT972_ALERT_2_B Check Calcd Resid. Dens. 0.39A From W2 -2.93 eA-3

Author Response: same as above

PLAT972_ALERT_2_B Check Calcd Resid. Dens. 1.37A From W2 -2.86 eA-3

Author Response: same as above

PLAT972_ALERT_2_B Check Calcd Resid. Dens. 1.03A From W3 -2.78 eA-3

Author Response: same as above

PLAT972_ALERT_2_B Check Calcd Resid. Dens. 1.27A From B1 -2.74 eA-3

Author Response: same as above

PLAT972_ALERT_2_B Check Calcd Resid. Dens. 1.11A From C80 -2.74 eA-3

Author Response: same as above

PLAT972_ALERT_2_B Check Calcd Resid. Dens. 0.83A From W31 -2.74 eA-3

Author Response: same as above

PLAT972_ALERT_2_B Check Calcd Resid. Dens. 0.94A From W12 -2.56 eA-3

Author Response: same as above

PLAT972_ALERT_2_B Check Calcd Resid. Dens. 1.75A From C41 -2.53 eA-3

Author Response: same as above

PLAT972_ALERT_2_B Check Calcd Resid. Dens. 0.70A From W21 -2.52 eA-3

Author Response: same as above

Alert level C

DIFMN03_ALERT_1_C The minimum difference density is $< -0.1 \cdot Z_{MAX} \cdot 0.75$
The relevant atom site should be identified.

DIFMX02_ALERT_1_C The maximum difference density is $> 0.1 \cdot Z_{MAX} \cdot 0.75$
The relevant atom site should be identified.

PLAT213_ALERT_2_C Atom C21 has ADP max/min Ratio 3.1 prolat

Author Response: due to disorder in the structure

PLAT213_ALERT_2_C Atom C22 has ADP max/min Ratio 3.1 prolat

Author Response: due to disorder in the structure

PLAT213_ALERT_2_C Atom C23 has ADP max/min Ratio 3.1 prolat

Author Response: due to disorder in the structure

PLAT213_ALERT_2_C Atom C24 has ADP max/min Ratio 3.1 prolat

Author Response: due to disorder in the structure

PLAT213_ALERT_2_C Atom C31 has ADP max/min Ratio 3.3 oblate

Author Response: due to disorder in the structure

PLAT213_ALERT_2_C Atom C32 has ADP max/min Ratio 3.3 oblate

Author Response: due to disorder in the structure

PLAT213_ALERT_2_C Atom C33 has ADP max/min Ratio 3.3 oblate

Author Response: due to disorder in the structure

PLAT213_ALERT_2_C Atom C34 has ADP max/min Ratio 3.3 oblate

Author Response: due to disorder in the structure

PLAT213_ALERT_2_C Atom C35 has ADP max/min Ratio 3.3 oblate

Author Response: due to disorder in the structure

PLAT213_ALERT_2_C Atom O83 has ADP max/min Ratio 3.1 prolat

Author Response: due to disorder in the structure

PLAT213_ALERT_2_C Atom C71 has ADP max/min Ratio 3.4 oblate

Author Response: due to disorder in the structure

PLAT213_ALERT_2_C Atom C72 has ADP max/min Ratio 3.4 oblate

Author Response: due to disorder in the structure

PLAT213_ALERT_2_C Atom C73 has ADP max/min Ratio 3.4 oblate

Author Response: due to disorder in the structure

PLAT213_ALERT_2_C Atom C74 has ADP max/min Ratio 3.4 oblate

Author Response: due to disorder in the structure

PLAT213_ALERT_2_C Atom C75 has ADP max/min Ratio 3.4 oblate

Author Response: due to disorder in the structure

PLAT213_ALERT_2_C Atom C84 has ADP max/min Ratio 3.5 prolat

Author Response: due to disorder in the structure

PLAT213_ALERT_2_C Atom O112 has ADP max/min Ratio 3.1 oblate

Author Response: due to disorder in the structure

PLAT220_ALERT_2_C Non-Solvent Resd 2 C	Ueq(max)/Ueq(min) Range	5.0 Ratio
PLAT220_ALERT_2_C Non-Solvent Resd 3 C	Ueq(max)/Ueq(min) Range	3.5 Ratio
PLAT220_ALERT_2_C Non-Solvent Resd 4 C	Ueq(max)/Ueq(min) Range	3.3 Ratio
PLAT230_ALERT_2_C Hirshfeld Test Diff for C41	--C46 .	5.9 s.u.
PLAT230_ALERT_2_C Hirshfeld Test Diff for C42	--C47 .	5.9 s.u.
PLAT230_ALERT_2_C Hirshfeld Test Diff for C43	--C48 .	5.7 s.u.
PLAT230_ALERT_2_C Hirshfeld Test Diff for C44	--C49 .	5.9 s.u.
PLAT230_ALERT_2_C Hirshfeld Test Diff for C45	--C50 .	6.1 s.u.
PLAT234_ALERT_4_C Large Hirshfeld Difference W1	--C24 .	0.16 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference W1 --B1 . 0.20 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference W2 --B2 . 0.17 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference W2 --B3 . 0.19 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference W3 --B2 . 0.17 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference O21 --C21 . 0.19 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference O23 --C23 . 0.19 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference O24 --C24 . 0.23 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference C5 --C10 . 0.16 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference C11 --C16 . 0.21 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference C12 --C17 . 0.16 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference C13 --C18 . 0.20 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference C14 --C19 . 0.20 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference C15 --C20 . 0.20 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference W11 --C52 . 0.19 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference O52 --C52 . 0.19 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference C61 --C66 . 0.17 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference C63 --C68 . 0.19 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference C65 --C70 . 0.18 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference C71 --C76 . 0.23 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference C73 --C78 . 0.19 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference C75 --C80 . 0.23 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT234_ALERT_4_C Large Hirshfeld Difference W33 --B33 . 0.16 Ang.

Author Response: The alert is due to disorder in cyclopentadienyl moiety

PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of W1 Check
PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of W11 Check
PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of W13 Check
PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of W21 Check
PLAT242_ALERT_2_C Low 'MainMol' Ueq as Compared to Neighbors of W23 Check
PLAT250_ALERT_2_C Large U3/U1 Ratio for Average U(i,j) Tensor ... 2.1 Note
PLAT601_ALERT_2_C Structure Contains Solvent Accessible VOIDS of . 92 Ang**3
PLAT906_ALERT_3_C Large K Value in the Analysis of Variance 6.181 Check
PLAT911_ALERT_3_C Missing FCF Refl Between Thmin & STh/L= 0.595 20 Report
PLAT925_ALERT_1_C The Reported and Calculated Rho(max) Differ by . 1.05 eA-3
PLAT971_ALERT_2_C Check Calcd Resid. Dens. 0.76A From C41 2.49 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_C Check Calcd Resid. Dens. 1.29A From B1 2.45 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_C Check Calcd Resid. Dens. 1.58A From W13 2.44 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_C Check Calcd Resid. Dens. 1.75A From C84 2.44 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT971_ALERT_2_C Check Calcd Resid. Dens. 1.41A From W3 2.37 eA-3

Author Response: These are spurious electron density peaks in this heavy atom structure which are higher than normal due to inadequate absorption correction. However the refined model is correct with respect to the atom assignment

PLAT972_ALERT_2_C Check Calcd Resid. Dens. 1.30A From C104 -2.49 eA-3

Author Response: same as above

PLAT972_ALERT_2_C Check Calcd Resid. Dens. 0.63A From W1 -2.39 eA-3

Author Response: same as above

PLAT972_ALERT_2_C Check Calcd Resid. Dens. 1.08A From W11 -2.39 eA-3

Author Response: same as above

PLAT977_ALERT_2_C Check Negative Difference Density on H7C -0.43 eA-3
PLAT977_ALERT_2_C Check Negative Difference Density on H8C -0.35 eA-3
PLAT977_ALERT_2_C Check Negative Difference Density on H10N -0.32 eA-3
PLAT977_ALERT_2_C Check Negative Difference Density on H17B -0.65 eA-3
PLAT977_ALERT_2_C Check Negative Difference Density on H17C -1.12 eA-3
PLAT977_ALERT_2_C Check Negative Difference Density on H18B -0.66 eA-3
PLAT977_ALERT_2_C Check Negative Difference Density on H18C -0.50 eA-3
PLAT977_ALERT_2_C Check Negative Difference Density on H38C -0.76 eA-3
PLAT977_ALERT_2_C Check Negative Difference Density on H47A -0.44 eA-3
PLAT977_ALERT_2_C Check Negative Difference Density on H47B -0.48 eA-3
PLAT977_ALERT_2_C Check Negative Difference Density on H47C -0.56 eA-3
PLAT977_ALERT_2_C Check Negative Difference Density on H69B -0.38 eA-3

PLAT977_ALERT_2_C	Check Negative Difference Density on H70A	-0.61	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H76C	-0.37	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H77B	-0.31	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H77C	-0.42	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H80A	-0.35	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H80C	-0.87	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H99A	-0.58	eA-3
PLAT978_ALERT_2_C	Number C-C Bonds with Positive Residual Density.	0	Info

● **Alert level G**

PLAT002_ALERT_2_G	Number of Distance or Angle Restraints on AtSite	3	Note
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	895.08	Why ?
PLAT171_ALERT_4_G	The CIF-Embedded .res File Contains EADP Records	18	Report
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records	3	Report
PLAT187_ALERT_4_G	The CIF-Embedded .res File Contains RIGU Records	1	Report
PLAT232_ALERT_2_G	Hirshfeld Test Diff (M-X) W1 --C22 .	5.2	s.u.
PLAT343_ALERT_2_G	Unusual sp? Angle Range in Main Residue for	C21	Check
PLAT343_ALERT_2_G	Unusual sp? Angle Range in Main Residue for	C24	Check
PLAT343_ALERT_2_G	Unusual sp? Angle Range in Main Residue for	C51	Check
PLAT343_ALERT_2_G	Unusual sp? Angle Range in Main Residue for	C111	Check
PLAT432_ALERT_2_G	Short Inter X...Y Contact O52 ..C63	2.93	Ang.
	x,y,z =	1_555	Check
PLAT722_ALERT_1_G	Angle Calc 108.00, Rep 109.50 Dev...	1.50	Degree
	H20B -C20 -H20C 1.555 1.555 1.555 #	272	Check
PLAT722_ALERT_1_G	Angle Calc 108.00, Rep 109.50 Dev...	1.50	Degree
	H50A -C50 -H50C 1.555 1.555 1.555 #	547	Check
PLAT764_ALERT_4_G	Overcomplete CIF Bond List Detected (Rep/Expd) .	1.16	Ratio
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell: Resd. #	2	Note
	C24 H30 B4 O4 W3		
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	78	Note
PLAT909_ALERT_3_G	Percentage of I>2sig(I) Data at Theta(Max) Still	79%	Note
PLAT913_ALERT_3_G	Missing # of Very Strong Reflections in FCF	1	Note

23 **ALERT level A** = Most likely a serious problem - resolve or explain
27 **ALERT level B** = A potentially serious problem, consider carefully
88 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
18 **ALERT level G** = General information/check it is not something unexpected

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

It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious problems it may be necessary to carry out additional measurements or structure refinements. However, the purpose of your study may justify the reported deviations and the more serious of these should normally be commented upon in the discussion or experimental section of a paper or in the "special_details" fields of the CIF. checkCIF was carefully designed to identify outliers and unusual parameters, but every test has its limitations and alerts that are not important in a particular case may appear. Conversely, the absence of alerts does not guarantee there are no aspects of the results needing attention. It is up to the individual to critically assess their own results and, if necessary, seek expert advice.

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* or *IUCrData*, 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.

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