

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) SAIOC-1@G5

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: SAIOC-1@G5

Bond precision:	C-C = 0.0177 Å	Wavelength=1.34050	
Cell:	a=30.0020 (4)	b=30.0020 (4)	c=19.4409 (4)
	alpha=90	beta=90	gamma=90
Temperature:	100 K		
	Calculated	Reported	
Volume	17499.2 (6)	17499.1 (6)	
Space group	P 4/n	P 4/n	
Hall group	-P 4a	-P 4a	
Moiety formula	C216 H360 Al32 N12 O110 Pb6 S12, 2(C6 H6) [+ solvent]	C216 H360 Al32 N12 O110 Pb6 S12, 2(C6 H6)	
Sum formula	C228 H372 Al32 N12 O110 Pb6 S12 [+ solvent]	C228 H372 Al32 N12 O110 Pb6 S12	
Mr	7532.68	7532.57	
Dx, g cm ⁻³	1.430	1.430	
Z	2	2	
Mu (mm ⁻¹)	5.066	5.208	
F000	7608.0	7608.0	
F000'	7586.96		
h, k, lmax	35, 35, 22	35, 33, 22	
Nref	14924	14877	
Tmin, Tmax		1.000, 1.000	
Tmin'			
Correction method=	#	Reported T Limits: Tmin=1.000 Tmax=1.000	
AbsCorr =	SPHERE		
Data completeness=	0.997	Theta (max) = 52.046	

R(reflections)= 0.0785(10320)

wR2 (reflections)=
0.2421(14877)

S = 1.027

Npar= 928

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. 0.86Ang From Pb1

4.59 eA-3

Author Response: These alerts are generated because of residual density peaks near the heaviest atoms in the structure, due to fourier termination ripples. After inspection, the residual electron density peak does not make chemical sense and will not affect the correct identification of the structure.

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 1.11Ang From Pb2

3.98 eA-3

Author Response: These alerts are generated because of residual density peaks near the heaviest atoms in the structure, due to fourier termination ripples. After inspection, the residual electron density peak does not make chemical sense and will not affect the correct identification of the structure.

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 0.96Ang From Pb1

3.85 eA-3

Author Response: These alerts are generated because of residual density peaks near the heaviest atoms in the structure, due to fourier termination ripples. After inspection, the residual electron density peak does not make chemical sense and will not affect the correct identification of the structure.

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 1.08Ang From Pb3

3.77 eA-3

Author Response: These alerts are generated because of residual density peaks near the heaviest atoms in the structure, due to fourier termination ripples. After inspection, the residual electron density peak does not make chemical sense and will not affect the correct identification of the structure.

PLAT971_ALERT_2_A Check Calcd Resid. Dens. 0.85Ang From Pb2

3.57 eA-3

Author Response: These alerts are generated because of residual density peaks near the heaviest atoms in the structure, due to fourier termination ripples. After inspection, the residual electron density peak does not make chemical sense and will not affect the correct identification of the structure.

PLAT973_ALERT_2_A Check Calcd Positive Resid. Density on Pb1 3.49 eA-3

Author Response: These alerts are generated because of residual density peaks near the heaviest atoms in the structure, due to fourier termination ripples. After inspection, the residual electron density peak does not make chemical sense and will not affect the correct identification of the structure.

PLAT973_ALERT_2_A Check Calcd Positive Resid. Density on Pb3 2.09 eA-3

Author Response: These alerts are generated because of residual density peaks near the heaviest atoms in the structure, due to fourier termination ripples. After inspection, the residual electron density peak does not make chemical sense and will not affect the correct identification of the structure.

 **Alert level B**
PLAT094_ALERT_2_B Ratio of Maximum / Minimum Residual Density 4.83 Report

Author Response: These alerts are generated because of residual density peaks near the heaviest atoms in the structure, due to fourier termination ripples. After inspection, the residual electron density peak does not make chemical sense and will not affect the correct identification of the structure.

PLAT971_ALERT_2_B Check Calcd Resid. Dens. 1.05Ang From Pb3 3.36 eA-3

Author Response: These alerts are generated because of residual density peaks near the heaviest atoms in the structure, due to fourier termination ripples. After inspection, the residual electron density peak does not make chemical sense and will not affect the correct identification of the structure.

PLAT971_ALERT_2_B Check Calcd Resid. Dens. 0.23Ang From Pb2 2.85 eA-3

Author Response: These alerts are generated because of residual density peaks near the heaviest atoms in the structure, due to fourier termination ripples. After inspection, the residual electron density peak does not make chemical sense and will not affect the correct identification of the structure.

 **Alert level C**
RADNW01_ALERT_1_C The radiation wavelength lies outside the expected range for the supplied radiation type. Expected range 1.34130-1.34150
Wavelength given = 1.34050
THETM01_ALERT_3_C The value of sine(theta_max)/wavelength is less than 0.590
Calculated sin(theta_max)/wavelength = 0.5882

PLAT220_ALERT_2_C	NonSolvent	Resd	1	C	Ueq(max) / Ueq(min)	Range	4.2	Ratio										
PLAT220_ALERT_2_C	NonSolvent	Resd	1	O	Ueq(max) / Ueq(min)	Range	3.8	Ratio										
PLAT222_ALERT_3_C	NonSolvent	Resd	1	H	Uiso(max) / Uiso(min)	Range	6.3	Ratio										
PLAT241_ALERT_2_C	High	'MainMol'	Ueq	as Compared to Neighbors of			C7	Check										
PLAT241_ALERT_2_C	High	'MainMol'	Ueq	as Compared to Neighbors of			C33	Check										
PLAT241_ALERT_2_C	High	'MainMol'	Ueq	as Compared to Neighbors of			C36	Check										
PLAT241_ALERT_2_C	High	'MainMol'	Ueq	as Compared to Neighbors of			C53	Check										
PLAT241_ALERT_2_C	High	'MainMol'	Ueq	as Compared to Neighbors of			C56	Check										
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq	as Compared to Neighbors of			S1	Check										
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq	as Compared to Neighbors of			N1	Check										
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq	as Compared to Neighbors of			N2	Check										
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq	as Compared to Neighbors of			N3	Check										
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq	as Compared to Neighbors of			C19	Check										
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq	as Compared to Neighbors of			C22	Check										
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq	as Compared to Neighbors of			C40	Check										
PLAT242_ALERT_2_C	Low	'MainMol'	Ueq	as Compared to Neighbors of			C50	Check										
PLAT260_ALERT_2_C	Large	Average	Ueq of Residue Including		Pb1		0.127	Check										
PLAT260_ALERT_2_C	Large	Average	Ueq of Residue Including		C11		0.129	Check										
PLAT342_ALERT_3_C	Low	Bond Precision on	C-C Bonds				0.01767	Ang.										
PLAT360_ALERT_2_C	Short	C(sp3)-C(sp3)	Bond	C4	- C5	.	1.43	Ang.										
PLAT360_ALERT_2_C	Short	C(sp3)-C(sp3)	Bond	C22	- C23	.	1.43	Ang.										
PLAT410_ALERT_2_C	Short	Intra	H...H Contact	H4A	..H5B	.	1.95	Ang.										
					x,y,z	=	1_555	Check										
PLAT413_ALERT_2_C	Short	Inter	XH3 .. XHn	H35A	..H49	.	2.11	Ang.										
					-x,1-y,1-z	=	5_566	Check										
PLAT905_ALERT_3_C	Negative K value in the Analysis of Variance ...						-2.471	Report										
PLAT911_ALERT_3_C	Missing	FCF	Refl	Between	Thmin & STh/L=	0.588	45	Report										
	-1	3	0,	0	4	0,	2	6	0,	0	8	0,	2	10	0,	1	1	1,
	1	3	1,	0	4	1,	7	7	1,	-3	9	1,	-10	13	1,	1	1	2,
	-3	4	2,	1	4	2,	-3	6	2,	-1	7	2,	4	7	2,	1	8	2,
	-2	10	2,	9	10	2,	-5	11	2,	2	2	3,	-1	4	3,	-2	5	3,
	2	12	3,	2	14	3,	1	3	4,	2	5	4,	5	7	4,	6	8	4,
	2	12	4,	-1	3	5,	-1	3	6,	-2	4	6,	-1	8	6,	-4	5	8,
	14	27	10,	-17	20	14,	-16	20	14,	-18	21	14,	-17	21	14,	-16	21	14,
	-17	22	14,	-16	22	14,	-3	21	17,									
PLAT971_ALERT_2_C	Check	Calcd	Resid.	Dens.	0.77Ang	From	Pb1		2.09	eA-3								

Author Response: These alerts are generated because of residual density peaks near the heaviest atoms in the structure, due to fourier termination ripples. After inspection, the residual electron density peak does not make chemical sense and will not affect the correct identification of the structure.

PLAT971_ALERT_2_C	Check	Calcd	Resid.	Dens.	0.93Ang	From	Pb2	2.05	eA-3
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Author Response: These alerts are generated because of residual density peaks near the heaviest atoms in the structure, due to fourier termination ripples. After inspection, the residual electron density peak does not make chemical sense and will not affect the correct identification of the structure.

PLAT971_ALERT_2_C	Check	Calcd	Resid.	Dens.	1.09Ang	From	Pb2	1.95	eA-3
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Author Response: These alerts are generated because of residual density peaks near the heaviest atoms in the structure, due to fourier termination ripples. After inspection, the residual electron density peak does not make chemical sense and will not affect the correct identification of the structure.

PLAT971_ALERT_2_C Check Calcd Resid. Dens. 1.09Ang From Pb3 1.94 eA-3

Author Response: These alerts are generated because of residual density peaks near the heaviest atoms in the structure, due to fourier termination ripples. After inspection, the residual electron density peak does not make chemical sense and will not affect the correct identification of the structure.

PLAT971_ALERT_2_C Check Calcd Resid. Dens. 0.88Ang From Pb2 1.81 eA-3

Author Response: These alerts are generated because of residual density peaks near the heaviest atoms in the structure, due to fourier termination ripples. After inspection, the residual electron density peak does not make chemical sense and will not affect the correct identification of the structure.

PLAT971_ALERT_2_C Check Calcd Resid. Dens. 0.92Ang From Pb2 1.74 eA-3

Author Response: These alerts are generated because of residual density peaks near the heaviest atoms in the structure, due to fourier termination ripples. After inspection, the residual electron density peak does not make chemical sense and will not affect the correct identification of the structure.

PLAT971_ALERT_2_C Check Calcd Resid. Dens. 0.88Ang From Pb2 1.73 eA-3

Author Response: These alerts are generated because of residual density peaks near the heaviest atoms in the structure, due to fourier termination ripples. After inspection, the residual electron density peak does not make chemical sense and will not affect the correct identification of the structure.

PLAT975_ALERT_2_C Check Calcd Resid. Dens. 0.75Ang From O7 .	0.95 eA-3
PLAT977_ALERT_2_C Check Negative Difference Density on H6A .	-0.32 eA-3
PLAT977_ALERT_2_C Check Negative Difference Density on H25C .	-0.34 eA-3
PLAT977_ALERT_2_C Check Negative Difference Density on H44A .	-0.40 eA-3

● Alert level G

ABSMU01_ALERT_1_G Calculation of _exptl_absorpt_correction_mu not performed for this radiation type.	
PLAT002_ALERT_2_G Number of Distance or Angle Restraints on AtSite	26 Note
PLAT003_ALERT_2_G Number of Uiso or U(i,j) Restrained non-H Atoms	66 Report
PLAT007_ALERT_5_G Number of Unrefined Donor-H Atoms H10 H23	2 Report
PLAT051_ALERT_1_G Mu(calc) and Mu(CIF) Ratio Differs from 1.0 by .	2.73 %

PLAT072_ALERT_2_G	SHELXL First Parameter in WGHT	Unusually Large	0.17	Report				
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT	Unusually Large	8.65	Why ?				
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records		23	Report				
PLAT177_ALERT_4_G	The CIF-Embedded .res File Contains DELU Records		4	Report				
PLAT178_ALERT_4_G	The CIF-Embedded .res File Contains SIMU Records		4	Report				
PLAT186_ALERT_4_G	The CIF-Embedded .res File Contains ISOR Records		1	Report				
PLAT188_ALERT_3_G	A Non-default SIMU Restraint Value has been used		0.0100	Report				
PLAT188_ALERT_3_G	A Non-default SIMU Restraint Value has been used		0.0100	Report				
PLAT188_ALERT_3_G	A Non-default SIMU Restraint Value has been used		0.0100	Report				
PLAT188_ALERT_3_G	A Non-default SIMU Restraint Value has been used		0.0100	Report				
PLAT192_ALERT_3_G	A Non-default DELU Restraint Value for SecondPar		0.0200	Report				
PLAT192_ALERT_3_G	A Non-default DELU Restraint Value for SecondPar		0.0200	Report				
PLAT192_ALERT_3_G	A Non-default DELU Restraint Value for SecondPar		0.0200	Report				
PLAT192_ALERT_3_G	A Non-default DELU Restraint Value for SecondPar		0.0200	Report				
PLAT299_ALERT_4_G	Atom Site Occupancy Constrained at		0.5	Check				
	C9	C10	C24	C25	C38	C39	H8A	H8B
	H9A	H9B	H9C	H10A	H10B	H10C	H22	H22A
	H24A	H24B	H24C	H25A	H25B	H25C	H37A	H37B
	H37C	H37D	H38A	H38B	H38C	H39A	H39B	H39C
	C11	C59	C60	C61	C62	C87	H11	H59
	H60	H61	H62	H87				
PLAT301_ALERT_3_G	Main Residue Disorder	(Resd 1)		3% Note				
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder	(Resd 2)		100% Note				
PLAT343_ALERT_2_G	Unusual sp3 Angle Range in Main Residue for			C4 Check				
PLAT343_ALERT_2_G	Unusual sp3 Angle Range in Main Residue for			C56 Check				
PLAT412_ALERT_2_G	Short Intra XH3 .. XHn	H5A ..H10A .		1.79 Ang.				
		x,y,z =		1_555 Check				
PLAT412_ALERT_2_G	Short Intra XH3 .. XHn	H22A ..H23C .		2.09 Ang.				
		x,y,z =		1_555 Check				
PLAT413_ALERT_2_G	Short Inter XH3 .. XHn	H38C ..H55A .		1.66 Ang.				
		1/2-y,1+x,z =		3_565 Check				
PLAT606_ALERT_4_G	Solvent Accessible VOID(S) in Structure			! Info				
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...			0.00 Deg.				
	07 -07 -PB1 3_555 1_555 1_555		#	190 Check				
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...			0.00 Deg.				
	07 -07 -PB1 2_555 1_555 1_555		#	191 Check				
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...			0.00 Deg.				
	07 -07 -PB1 4_555 1_555 1_555		#	192 Check				
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...			0.00 Deg.				
	07 -07 -AL1 3_555 1_555 3_555		#	193 Check				
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...			0.00 Deg.				
	07 -07 -AL1 3_555 1_555 1_555		#	194 Check				
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...			0.00 Deg.				
	07 -07 -AL1 2_555 1_555 2_555		#	195 Check				
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...			0.00 Deg.				
	07 -07 -AL1 2_555 1_555 3_555		#	196 Check				
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...			0.00 Deg.				
	07 -07 -AL1 4_555 1_555 3_555		#	197 Check				
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...			0.00 Deg.				
	07 -07 -AL1 4_555 1_555 2_555		#	198 Check				
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...			0.00 Deg.				
	07 -07 -AL1 4_555 1_555 1_555		#	199 Check				
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...			0.00 Deg.				
	07 -07 -AL1 4_555 1_555 4_555		#	200 Check				
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...			0.00 Deg.				
	07 -07 -AL1 2_555 1_555 1_555		#	201 Check				
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond) Angle(s) in CIF ...			0.00 Deg.				

07	-07	-AL1	3_555	1_555	4_555	#	202	Check									
PLAT779_ALERT_4_G	Suspect or Irrelevant	(Bond)	Angle(s)	in CIF	...		0.00	Deg.										
07	-07	-AL1	2_555	1_555	4_555	#	203	Check									
PLAT779_ALERT_4_G	Suspect or Irrelevant	(Bond)	Angle(s)	in CIF	...		0.00	Deg.										
07	-07	-AL1	3_555	1_555	2_555	#	204	Check									
PLAT779_ALERT_4_G	Suspect or Irrelevant	(Bond)	Angle(s)	in CIF	...		0.00	Deg.										
07	-07	-07	3_555	1_555	2_555	#	205	Check									
PLAT779_ALERT_4_G	Suspect or Irrelevant	(Bond)	Angle(s)	in CIF	...		0.00	Deg.										
07	-07	-07	4_555	1_555	3_555	#	206	Check									
PLAT779_ALERT_4_G	Suspect or Irrelevant	(Bond)	Angle(s)	in CIF	...		0.00	Deg.										
07	-07	-07	4_555	1_555	2_555	#	207	Check									
PLAT790_ALERT_4_G	Centre of Gravity not Within Unit Cell:	Resd.	#				2	Note										
	C6	H6																
PLAT794_ALERT_5_G	Tentative Bond Valency for Pb1		(II)	.			2.06	Info										
PLAT794_ALERT_5_G	Tentative Bond Valency for Pb3		(II)	.			2.06	Info										
PLAT794_ALERT_5_G	Tentative Bond Valency for Al1		(III)	.			2.76	Info										
PLAT794_ALERT_5_G	Tentative Bond Valency for Al2		(III)	.			2.75	Info										
PLAT794_ALERT_5_G	Tentative Bond Valency for Al6		(III)	.			2.82	Info										
PLAT794_ALERT_5_G	Tentative Bond Valency for Al7		(III)	.			2.83	Info										
PLAT794_ALERT_5_G	Tentative Bond Valency for Al8		(III)	.			2.73	Info										
PLAT860_ALERT_3_G	Number of Least-Squares Restraints					581	Note										
PLAT868_ALERT_4_G	ALERTS Due to the Use of _smtbx_masks Suppressed						!	Info										
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary	.					Please Do	!										
PLAT909_ALERT_3_G	Percentage of I>2sig(I) Data at Theta(Max) Still						34%	Note										
PLAT910_ALERT_3_G	Missing # of FCF Reflection(s) Below Theta(Min).						2	Note										
	1	1	0,	0	0	1,												
PLAT933_ALERT_2_G	Number of HKL-OMIT Records in Embedded .res File						33	Note										
	1	3	1,	-2	10	2,	0	8	0,	-1	7	2,	2	6	0,	2	14	3,
	-1	3	5,	-1	3	6,	2	12	3,	-10	13	1,	-1	4	3,	1	4	2,
	0	4	0,	4	7	2,	-2	5	3,	-3	6	2,	-1	8	6,	-3	9	1,
	1	8	2,	0	4	1,	2	12	4,	-5	11	2,	-3	4	2,	2	10	0,
	-4	5	8,	7	7	1,	-2	4	6,	2	5	4,	5	7	4,	6	8	4,
	1	3	4,	2	2	3,	9	10	2,									
PLAT941_ALERT_3_G	Average HKL Measurement Multiplicity					3.4	Low										
PLAT951_ALERT_5_G	Calculated (ThMax) and CIF-Reported Kmax Differ						2	Units										
PLAT969_ALERT_5_G	The 'Henn et al.' R-Factor-gap value					4.615	Note										
	Predicted wR2: Based on SigI**2	5.25	or SHELX Weight	23.58														
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.						0	Info										
PLAT984_ALERT_1_G	The C-f' =	0.0147	Deviates from the B&C-Value				0.0137	Check										
PLAT984_ALERT_1_G	The N-f' =	0.0253	Deviates from the B&C-Value				0.0241	Check										
PLAT984_ALERT_1_G	The O-f' =	0.0412	Deviates from the B&C-Value				0.0389	Check										
PLAT984_ALERT_1_G	The Pb-f' =	-4.2646	Deviates from the B&C-Value				-4.4950	Check										
PLAT985_ALERT_1_G	The Al-f" =	0.1843	Deviates from the B&C-Value				0.1873	Check										
PLAT985_ALERT_1_G	The Pb-f" =	7.1982	Deviates from the B&C-Value				6.8412	Check										
PLAT985_ALERT_1_G	The S-f" =	0.4242	Deviates from the B&C-Value				0.4295	Check										

7 **ALERT level A** = Most likely a serious problem - resolve or explain

3 **ALERT level B** = A potentially serious problem, consider carefully

38 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight

71 **ALERT level G** = General information/check it is not something unexpected

11 ALERT type 1 CIF construction/syntax error, inconsistent or missing data

53 ALERT type 2 Indicator that the structure model may be wrong or deficient

18 ALERT type 3 Indicator that the structure quality may be low

27 ALERT type 4 Improvement, methodology, query or suggestion

10 ALERT type 5 Informative message, check

checkCIF publication errors

Alert level A

PUBL004_ALERT_1_A The contact author's name and address are missing,
_publ_contact_author_name and _publ_contact_author_address.
PUBL005_ALERT_1_A _publ_contact_author_email, _publ_contact_author_fax and
_publ_contact_author_phone are all missing.
At least one of these should be present.
PUBL006_ALERT_1_A _publ_requested_journal is missing
e.g. 'Acta Crystallographica Section C'
PUBL008_ALERT_1_A _publ_section_title is missing. Title of paper.
PUBL009_ALERT_1_A _publ_author_name is missing. List of author(s) name(s).
PUBL010_ALERT_1_A _publ_author_address is missing. Author(s) address(es).
PUBL012_ALERT_1_A _publ_section_abstract is missing.
Abstract of paper in English.

7 **ALERT level A** = Data missing that is essential or data in wrong format
0 **ALERT level G** = General alerts. Data that may be required is missing

Publication of your CIF

You should 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 nature of your study may justify the reported deviations from journal submission requirements and the more serious of these should 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.

If level A alerts remain, which you believe to be justified deviations, and you intend to submit this CIF for publication in a journal, you should additionally insert an explanation in your CIF using the Validation Reply Form (VRF) below. This will allow your explanation to be considered as part of the review process.

Validation response form

Please find below a validation response form (VRF) that can be filled in and pasted into your CIF.

```
# start Validation Reply Form
_vrf_PUBL004_GLOBAL
;
PROBLEM: The contact author's name and address are missing,
```

```
RESPONSE: ...
;
_vrf_PUBL005_GLOBAL
;
PROBLEM: _publ_contact_author_email, _publ_contact_author_fax and
RESPONSE: ...
;
_vrf_PUBL006_GLOBAL
;
PROBLEM: _publ_requested_journal is missing
RESPONSE: ...
;
_vrf_PUBL008_GLOBAL
;
PROBLEM: _publ_section_title is missing. Title of paper.
RESPONSE: ...
;
_vrf_PUBL009_GLOBAL
;
PROBLEM: _publ_author_name is missing. List of author(s) name(s).
RESPONSE: ...
;
_vrf_PUBL010_GLOBAL
;
PROBLEM: _publ_author_address is missing. Author(s) address(es).
RESPONSE: ...
;
_vrf_PUBL012_GLOBAL
;
PROBLEM: _publ_section_abstract is missing.
RESPONSE: ...
;
# end Validation Reply Form
```

If you wish to submit your CIF for publication in Acta Crystallographica Section C or E, you should upload your CIF via the web. If you wish to submit your CIF for publication in IUCrData you should upload your CIF via the web. If your CIF is to form part of a submission to another IUCr journal, you will be asked, either during electronic submission or by the Co-editor handling your paper, to upload your CIF via our web site.

PLATON version of 15/07/2024; check.def file version of 15/07/2024

Datablock SAIOC-1@G5 - ellipsoid plot

