

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) 2

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: 2

Bond precision:	C-C = 0.0174 Å	Wavelength=0.71073	
Cell:	a=17.7961 (15) alpha=90	b=7.4754 (6) beta=100.133 (5)	c=17.6525 (17) gamma=90
Temperature:	150 K		
	Calculated	Reported	
Volume	2311.7 (4)	2311.7 (4)	
Space group	C 2/c	C 2/c	
Hall group	-C 2yc	-C 2yc	
Moiety formula	Br6 Se, 2 (C6 H8 N), 2 (Br)	?	
Sum formula	C12 H16 Br8 N2 Se	C12 H16 Br8 N2 Se	
Mr	906.43	906.51	
Dx, g cm ⁻³	2.604	2.605	
Z	4	4	
Mu (mm ⁻¹)	15.451	15.451	
F000	1664.0	1664.0	
F000'	1656.53		
h, k, lmax	22, 9, 22	22, 9, 22	
Nref	2564	2561	
Tmin, Tmax	0.236, 0.291	0.540, 0.746	
Tmin'	0.205		

Correction method= # Reported T Limits: Tmin=0.540 Tmax=0.746
AbsCorr = MULTI-SCAN

Data completeness= 0.999 Theta (max)= 27.140

R(reflections)= 0.0464 (1919)	wR2(reflections)= 0.1250 (2561)
S = 1.093	Npar= 124

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 B

PLAT230_ALERT_2_B	Hirshfeld Test Diff for	Br1	--Sel	.	10.1 s.u.
PLAT230_ALERT_2_B	Hirshfeld Test Diff for	Br2	--Sel	.	17.1 s.u.
PLAT341_ALERT_3_B	Low Bond Precision on	C-C Bonds	.....		0.0174 Ang.



Alert level C

PLAT242_ALERT_2_C	Low	'MainMol'	Ueq as Compared to Neighbors of	N1	Check
PLAT250_ALERT_2_C	Large	U3/U1	Ratio for Average U(i,j) Tensor	2.8	Note
PLAT362_ALERT_2_C	Short	C(sp3)-C(sp2)	Bond C7 - C8	1.38	Ang.
PLAT906_ALERT_3_C	Large	K	Value in the Analysis of Variance	5.753	Check
PLAT911_ALERT_3_C	Missing	FCF Refl	Between Thmin & STh/L= 0.600	3	Report



Alert level G

PLAT003_ALERT_2_G	Number of Uiso or Uij	Restrained non-H Atoms ...	6	Report
PLAT007_ALERT_5_G	Number of Unrefined	Donor-H Atoms	1	Report
PLAT083_ALERT_2_G	SHELXL	Second Parameter in WGHT Unusually Large	18.29	Why ?
PLAT178_ALERT_4_G	The CIF-Embedded .res	File Contains SIMU Records	1	Report
PLAT230_ALERT_2_G	Hirshfeld Test Diff for	Br5A --Sel	20.9	s.u.
PLAT230_ALERT_2_G	Hirshfeld Test Diff for	Br5B --Sel	22.2	s.u.
PLAT300_ALERT_4_G	Atom Site Occupancy of	Br5A Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of	Br5B Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of	Br7 Constrained at	0.5	Check
PLAT300_ALERT_4_G	Atom Site Occupancy of	Br8 Constrained at	0.5	Check
PLAT301_ALERT_3_G	Main Residue Disorder	.....(Resd 1)	29%	Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue	Disorder (Resd 3)	100%	Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue	Disorder (Resd 4)	100%	Note
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in	..... (Resd 3)	0.50	Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms in	..... (Resd 4)	0.50	Check
PLAT434_ALERT_2_G	Short Inter HL..HL Contact	Br1 ..Br8	3.10	Ang.
		x,y,z =	1_555	Check
PLAT434_ALERT_2_G	Short Inter HL..HL Contact	Br2 ..Br7	3.29	Ang.
		1/2-x,-1/2+y,1/2-z =	4_545	Check
PLAT764_ALERT_4_G	Overcomplete CIF Bond List	Detected (Rep/Expd)	1.33	Ratio
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond)	Angle(s) in CIF ...	11.82	Deg.
	BR5B -SE1 -BR5A	2_555 1_555 2_555	#	9 Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond)	Angle(s) in CIF ...	11.82	Deg.
	BR5B -SE1 -BR5A	1_555 1_555 1_555	#	14 Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond)	Angle(s) in CIF ...	42.74	Deg.
	BR8 -BR7 -BR7	1_555 1_555 7_565	#	57 Check
PLAT779_ALERT_4_G	Suspect or Irrelevant (Bond)	Angle(s) in CIF ...	43.25	Deg.
	BR7 -BR8 -BR8	1_555 1_555 7_565	#	60 Check
PLAT860_ALERT_3_G	Number of Least-Squares	Restraints	36	Note
PLAT883_ALERT_1_G	No Info/Value for	_atom_sites_solution_primary		Please Do !
PLAT912_ALERT_4_G	Missing # of FCF Reflections	Above STh/L= 0.600	1	Note
PLAT913_ALERT_3_G	Missing # of Very Strong	Reflections in FCF	2	Note
PLAT933_ALERT_2_G	Number of HKL-OMIT	Records in Embedded .res File	2	Note
PLAT961_ALERT_5_G	Dataset Contains no	Negative Intensities		Please Check
PLAT965_ALERT_2_G	The SHELXL WEIGHT	Optimisation has not Converged		Please Check

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

1	ALERT type 1	CIF construction/syntax error, inconsistent or missing data
14	ALERT type 2	Indicator that the structure model may be wrong or deficient
6	ALERT type 3	Indicator that the structure quality may be low
15	ALERT type 4	Improvement, methodology, query or suggestion
2	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.

