

checkCIF/PLATON report

You have not supplied any structure factors. As a result the full set of tests cannot be run.

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: mo_b0542_0ma

Bond precision:	C-C = 0.0034 A	Wavelength=0.71073
Cell:	a=20.6642(12) b=19.9484(14) c=19.8692(11)	
	alpha=90 beta=91.024(2) gamma=90	
Temperature:	100 K	
	Calculated	Reported
Volume	8189.1(9)	8189.1(9)
Space group	P 21/c	P 1 21/c 1
Hall group	-P 2ybc	-P 2ybc
Moiety formula	C31.55 H69.64 Li4 N4 O8, C32 H72 Li4 N4 O8, 0.455(C H3)	C32 H72 Li4 N4 O8, C32 H71 Li4 N4 O8
Sum formula	C64 H143 Li8 N8 O16	C64 H143 Li8 N8 O16
Mr	1336.38	1336.38
Dx, g cm ⁻³	1.084	1.084
Z	4	4
Mu (mm ⁻¹)	0.074	0.074
F000	2940.0	2940.0
F000'	2941.25	
h,k,lmax	26,25,25	26,25,25
Nref	17881	17852
Tmin,Tmax	0.984,0.991	0.381,0.431
Tmin'	0.954	

Correction method= # Reported T Limits: Tmin=0.381 Tmax=0.431
AbsCorr = MULTI-SCAN

Data completeness= 0.998 Theta(max)= 27.000

R(reflections)= 0.0681(12171) wR2(reflections)= 0.1814(17852)

S = 1.026 Npar= 917

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

PLAT213_ALERT_2_B	Atom C47	has ADP max/min Ratio	4.3	prolat
PLAT241_ALERT_2_B	High 'MainMol'	Ueq as Compared to Neighbors of	C47	Check

Alert level C

PLAT213_ALERT_2_C	Atom C45	has ADP max/min Ratio	3.1	prolat
PLAT213_ALERT_2_C	Atom C46	has ADP max/min Ratio	3.2	prolat
PLAT213_ALERT_2_C	Atom C51	has ADP max/min Ratio	3.5	prolat
PLAT220_ALERT_2_C	Non-Solvent Resd 1	C Ueq(max)/Ueq(min) Range	5.7	Ratio
PLAT220_ALERT_2_C	Non-Solvent Resd 2	C Ueq(max)/Ueq(min) Range	4.0	Ratio
PLAT220_ALERT_2_C	Non-Solvent Resd 2	O Ueq(max)/Ueq(min) Range	4.2	Ratio
PLAT222_ALERT_3_C	Non-Solvent Resd 1	H Uiso(max)/Uiso(min) Range	4.8	Ratio

Alert level G

PLAT042_ALERT_1_G	Calc. and Reported MoietyFormula Strings Differ	Please Check
PLAT063_ALERT_4_G	Crystal Size Likely too Large for Beam Size	0.64 mm
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	8.03 Why ?
PLAT230_ALERT_2_G	Hirshfeld Test Diff for O12B -- C47 ..	17.8 s.u.
PLAT301_ALERT_3_G	Main Residue Disorder Percentage =	2 Note
PLAT302_ALERT_4_G	Anion/Solvent Disorder Percentage =	100 Note
PLAT304_ALERT_4_G	Non-Integer Number of Atoms (117.18) in Resd. #	1 Check
PLAT304_ALERT_4_G	Non-Integer Number of Atoms (1.82) in Resd. #	3 Check
PLAT432_ALERT_2_G	Short Inter X...Y Contact C47 .. C48A ..	2.26 Ang.
PLAT764_ALERT_4_G	Overcomplete CIF Bond List Detected (Rep/Expd) .	1.12 Ratio
PLAT793_ALERT_4_G	The Model has Chirality at N1 (Centro SPGR)	S Verify
PLAT793_ALERT_4_G	The Model has Chirality at N2 (Centro SPGR)	R Verify
PLAT793_ALERT_4_G	The Model has Chirality at N3 (Centro SPGR)	R Verify
PLAT793_ALERT_4_G	The Model has Chirality at N4 (Centro SPGR)	S Verify
PLAT793_ALERT_4_G	The Model has Chirality at N5 (Centro SPGR)	R Verify
PLAT793_ALERT_4_G	The Model has Chirality at N6 (Centro SPGR)	R Verify
PLAT793_ALERT_4_G	The Model has Chirality at N7 (Centro SPGR)	S Verify
PLAT793_ALERT_4_G	The Model has Chirality at N8 (Centro SPGR)	R Verify

0 **ALERT level A** = Most likely a serious problem - resolve or explain
2 **ALERT level B** = A potentially serious problem, consider carefully
7 **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

1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
11 ALERT type 2 Indicator that the structure model may be wrong or deficient
2 ALERT type 3 Indicator that the structure quality may be low
13 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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