

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: calcioancylite-La

Bond precision:	O- C = 0.0235 A	Wavelength=1.54184	
Cell:	a=5.0253 (3) alpha=90	b=8.5152 (6) beta=90	c=7.2717 (6) gamma=90
Temperature:	296 K		
	Calculated	Reported	
Volume	311.17 (4)	311.17 (4)	
Space group	P m c n	P m c n	
Hall group	-P 2n 2a	-P 2n 2a	
Moiety formula	C4 La2.64 O16, 1.36 (Ca)	C2 Ca0.677 La1.323 O8	
Sum formula	C4 Ca1.36 La2.64 O16	C2 Ca0.67 La1.32 O8	
Mr	725.27	363.13	
Dx, g cm ⁻³	3.870	3.876	
Z	1	2	
Mu (mm ⁻¹)	74.745	74.967	
F000	329.7	330.0	
F000'	328.30		
h, k, lmax	6, 10, 9	6, 10, 9	
Nref	370	360	
Tmin, Tmax	0.559, 0.687	0.372, 1.000	
Tmin'	0.287		

Correction method= # Reported T Limits: Tmin=0.372 Tmax=1.000
AbsCorr = MULTI-SCAN

Data completeness= 0.973 Theta (max)= 76.790

R(reflections)= 0.0652 (347)	wR2(reflections)= 0.1551 (360)
S = 1.259	Npar= 36

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 C**

ABSTY02_ALERT_1_C An _exptl_absorpt_correction_type has been given without
a literature citation. This should be contained in the
_exptl_absorpt_process_details field.

Absorption correction given as multi-scan

PLAT041_ALERT_1_C	Calc. and Reported SumFormula	Strings Differ	Please Check
PLAT042_ALERT_1_C	Calc. and Reported MoietyFormula	Strings Differ	Please Check
PLAT043_ALERT_1_C	Calculated and Reported Mol. Weight	Differ by .. 0.99	Check
PLAT077_ALERT_4_C	Unitcell Contains Non-integer	Number of Atoms ..	Please Check

● **Alert level G**

PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension	3	Info
PLAT005_ALERT_5_G	No Embedded Refinement Details Found in the CIF	Please Do !	
PLAT040_ALERT_1_G	No H-atoms in this Carbon Containing Compound ..	Please Check	
PLAT045_ALERT_1_G	Calculated and Reported Z Differ by a Factor ...	0.500	Check
PLAT068_ALERT_1_G	Reported F000 Differs from Calcd (or Missing)...	Please Check	
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large	16.78	Why ?
PLAT128_ALERT_4_G	Alternate Setting for Input Space Group Pmcn	Pnma	Note
PLAT301_ALERT_3_G	Main Residue Disorder	(Resd 1)	17% Note
PLAT302_ALERT_4_G	Anion/Solvent/Minor-Residue Disorder (Resd 2)	100%	Note
PLAT883_ALERT_1_G	No Info/Value for _atom_sites_solution_primary .	Please Do !	

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

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

