

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) z11

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: z11

Bond precision: C-C = 0.0137 A Wavelength=1.54178

Cell: a=11.0001(4) b=14.8467(5) c=22.0163(7)
 alpha=102.4725(16) beta=98.0625(16) gamma=106.5187(17)
Temperature: 240 K

	Calculated	Reported
Volume	3286.8(2)	3286.8(2)
Space group	P -1	P -1
Hall group	-P 1	-P 1
Moiety formula	C45 H44 Dy F36 Li O17	?
Sum formula	C45 H44 Dy F36 Li O17	C45 H44 Dy F36 Li O17
Mr	1710.24	1710.24
Dx,g cm-3	1.728	1.728
Z	2	2
Mu (mm-1)	7.599	7.599
F000	1686.0	1686.0
F000'	1674.91	
h,k,lmax	13,17,26	13,17,26
Nref	11941	11760
Tmin,Tmax	0.271,0.320	
Tmin'	0.205	

Correction method= Not given

Data completeness= 0.985 Theta(max)= 67.873

R(reflections)= 0.0821(10270) wR2(reflections)= 0.2144(11760)

S = 1.055 Npar= 901

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

PLAT242_ALERT_2_B	Low	'MainMol'	Ueq as Compared to Neighbors of	C12D	Check
PLAT242_ALERT_2_B	Low	'MainMol'	Ueq as Compared to Neighbors of	C15B	Check
PLAT242_ALERT_2_B	Low	'MainMol'	Ueq as Compared to Neighbors of	C18C	Check
PLAT242_ALERT_2_B	Low	'MainMol'	Ueq as Compared to Neighbors of	C18D	Check

Alert level C

RINTA01_ALERT_3_C The value of Rint is greater than 0.12
Rint given 0.138

PLAT020_ALERT_3_C	The Value of Rint is Greater Than 0.12	0.138	Report
PLAT057_ALERT_3_C	Correction for Absorption Required RT(exp) ...	1.18	Do !
PLAT213_ALERT_2_C	Atom F14D has ADP max/min Ratio	3.7	prolat
PLAT213_ALERT_2_C	Atom F19D has ADP max/min Ratio	4.0	prolat
PLAT213_ALERT_2_C	Atom F20D has ADP max/min Ratio	3.9	prolat
PLAT220_ALERT_2_C	Non-Solvent Resd 1 C Ueq(max)/Ueq(min) Range	4.0	Ratio
PLAT220_ALERT_2_C	Non-Solvent Resd 1 F Ueq(max)/Ueq(min) Range	4.8	Ratio
PLAT230_ALERT_2_C	Hirshfeld Test Diff for 07A --C8A	6.3	s.u.
PLAT234_ALERT_4_C	Large Hirshfeld Difference F17D --C15D	0.18	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference F20B --C18B	0.19	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference 07C --C8C	0.17	Ang.
PLAT234_ALERT_4_C	Large Hirshfeld Difference C3A --C4A	0.16	Ang.
PLAT241_ALERT_2_C	High 'MainMol' Ueq as Compared to Neighbors of	07A	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	01S	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	05A	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	07B	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C12A	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C12B	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C12C	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C15A	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C15C	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C15D	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C18A	Check
PLAT242_ALERT_2_C	Low 'MainMol' Ueq as Compared to Neighbors of	C18B	Check
PLAT260_ALERT_2_C	Large Average Ueq of Residue Including Dy	0.139	Check
PLAT342_ALERT_3_C	Low Bond Precision on C-C Bonds	0.01366	Ang.
PLAT601_ALERT_2_C	Structure Contains Solvent Accessible VOIDS of	47	Ang**3
PLAT911_ALERT_3_C	Missing FCF Refl Between Thmin & STh/L= 0.600	140	Report
PLAT971_ALERT_2_C	Check Calcd Resid. Dens. 1.00A From Dy	1.72	eA-3
PLAT971_ALERT_2_C	Check Calcd Resid. Dens. 1.58A From F24B	1.70	eA-3
PLAT971_ALERT_2_C	Check Calcd Resid. Dens. 1.11A From Dy	1.55	eA-3
PLAT971_ALERT_2_C	Check Calcd Resid. Dens. 1.01A From Dy	1.54	eA-3
PLAT975_ALERT_2_C	Check Calcd Resid. Dens. 0.99A From O5D	0.71	eA-3
PLAT977_ALERT_2_C	Check Negative Difference Density on H1SC	-0.43	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	20	Note
PLAT003_ALERT_2_G	Number of Uiso or Uij Restrained non-H Atoms ...	100	Report
PLAT007_ALERT_5_G	Number of Unrefined Donor-H Atoms	1	Report
PLAT072_ALERT_2_G	SHELXL First Parameter in WGHT Unusually Large	0.17	Report
PLAT172_ALERT_4_G	The CIF-Embedded .res File Contains DFIX Records	9	Report
PLAT177_ALERT_4_G	The CIF-Embedded .res File Contains DELU Records	1	Report
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C21A	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C21B	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C21C	Check
PLAT242_ALERT_2_G	Low 'MainMol' Ueq as Compared to Neighbors of	C21D	Check
PLAT343_ALERT_2_G	Unusual sp3 Angle Range in Main Residue for	C18B	Check
PLAT398_ALERT_2_G	Deviating C-O-C Angle From 120 for 07A	102.4	Degree
PLAT434_ALERT_2_G	Short Inter HL..HL Contact F20D ..F24B	2.75	Ang.

	x,-1+y,z =	1_545	Check
PLAT720_ALERT_4_G	Number of Unusual/Non-Standard Labels		43 Note
PLAT793_ALERT_4_G	Model has Chirality at C3A (Centro SPGR)		S Verify
PLAT793_ALERT_4_G	Model has Chirality at C3D (Centro SPGR)		S Verify
PLAT794_ALERT_5_G	Tentative Bond Valency for Dy (III) .	3.17	Info
PLAT860_ALERT_3_G	Number of Least-Squares Restraints	355	Note
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	74%	Note
PLAT912_ALERT_4_G	Missing # of FCF Reflections Above STh/L= 0.600		40 Note
PLAT933_ALERT_2_G	Number of OMIT Records in Embedded .res File ...		2 Note

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

1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
42 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
10 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.

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