

checkCIF/PLATON report

Structure factors have been supplied for datablock(s) bake15

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: bake15

Bond precision: C-C = 0.0026 A Wavelength=1.34139

Cell: a=9.7736(4) b=14.3565(7) c=19.9052(9)
 alpha=90 beta=95.585(2) gamma=90

Temperature: 150 K

	Calculated	Reported
Volume	2779.7(2)	2779.7(2)
Space group	C 2/c	C 1 2/c 1
Hall group	-C 2yc	-C 2yc
Moiety formula	C26 H16 F6 Mn N4 O6 S2	C26 H16 F6 Mn N4 O6 S2
Sum formula	C26 H16 F6 Mn N4 O6 S2	C26 H16 F6 Mn N4 O6 S2
Mr	713.49	713.49
Dx,g cm-3	1.705	1.705
Z	4	4
Mu (mm-1)	4.115	4.115
F000	1436.0	1436.0
F000'	1442.26	
h,k,lmax	12,18,25	12,18,25
Nref	3208	3208
Tmin,Tmax	0.610,0.719	0.379,0.516
Tmin'	0.473	

Correction method= # Reported T Limits: Tmin=0.379 Tmax=0.516
AbsCorr = MULTI-SCAN

Data completeness= 1.000 Theta(max)= 60.646

R(reflections)= 0.0357(3116) wR2(reflections)= 0.0944(3208)

S = 1.102 Npar= 205

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 G

ABSMU01_ALERT_1_G Calculation of `_exptl_absorpt_correction_mu`
not performed for this radiation type.

PLAT242_ALERT_2_G	Low	'MainMol' Ueq as Compared to Neighbors of	C13	Check
PLAT434_ALERT_2_G	Short Inter HL..HL Contact F1	..F1	2.72	Ang.
		-x,y,1/2-z =	2_555	Check
PLAT794_ALERT_5_G	Tentative Bond Valency for Mn1	(II)	2.10	Info
PLAT978_ALERT_2_G	Number C-C Bonds with Positive Residual Density.		4	Info

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

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

PLATON version of 20/08/2018; check.def file version of 20/08/2018

