checkCIF/PLATON report

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

No syntax errors found. CIF dictionary Interpreting this report

Datablock: I

Bond precision: C-C = 0.0156 AWavelength=0.71069 Cell: a=12.6053(9) b=20.6331(16)c=15.5228(12)beta=96.134(7)alpha=90 gamma=90 110 K Temperature: Calculated Reported Volume 4014.2(5)4014.1(5)Space group P 21 P 1 21 1 Hall group P 2yb P 2yb Moiety formula C76 H92 Mn6 N6 O26 C76 H92 Mn6 N6 O26 Sum formula C76 H92 Mn6 N6 O26 C76 H92 Mn6 N6 O26 Mr 1835.20 1835.16 Dx,g cm-3 1.518 1.518 Ζ 2 2 Mu (mm-1) 0.997 0.997 F000 1896.0 1896.0 F000′ 1900.87 h,k,lmax 17,28,21 17,28,21 Nref 11667[22739] 19000 Tmin,Tmax 0.898,0.932 0.820,0.930 Tmin′ 0.776 Correction method= ANALYTICAL Data completeness= 1.63/0.84 Theta(max) = 29.684wR2(reflections) = wR= 0.0846(R(reflections) = 0.0727(11223) 11223) S = 1.095Npar= 1028

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.

[IMAGE] Alert level BDescription

PLAT413_ALERT_2_B Short Inter XH3 XHn	Н2032 Н	841	2.00 Ang.
PLAT420_ALERT_2_B D-H Without Acceptor	0125 – н	1252	?
PLAT420_ALERT_2_B D-H Without Acceptor	0145 – н	1452	?
PLAT420_ALERT_2_B D-H Without Acceptor	0201 - H	102	?

[IMAGE] Alert level C

PLAT029_ALERT_3_C _diffrn_measured_fraction_theta_full Low	0.973
PLAT213_ALERT_2_C Atom C6 has ADP max/min Ratio	3.4 prola
PLAT222_ALERT_3_C Large Non-Solvent H Uiso(max)/Uiso(min)	5.3 Ratio
PLAT234_ALERT_4_C Large Hirshfeld Difference O211 C212	0.17 Ang.
PLAT234_ALERT_4_C Large Hirshfeld Difference C212 C213	0.18 Ang.
PLAT241_ALERT_2_C Check High Ueq as Compared to Neighbors for	01
PLAT241_ALERT_2_C Check High Ueq as Compared to Neighbors for	C128
PLAT241_ALERT_2_C Check High Ueq as Compared to Neighbors for	C148
PLAT242_ALERT_2_C Check Low Ueq as Compared to Neighbors for	Mn5
PLAT360_ALERT_2_C Short C(sp3)-C(sp3) Bond C172 - C173	1.42 Ang.
PLAT360_ALERT_2_C Short C(sp3)-C(sp3) Bond C212 - C213	1.41 Ang.
PLAT415_ALERT_2_C Short Inter D-HH-X H1252 H891	2.13 Ang.
PLAT416_ALERT_2_C Short Intra D-HH-D H104 H105	1.97 Ang.
PLAT790_ALERT_4_C Centre of Gravity not Within Unit Cell: Resd. #	1
C76 H92 Mn6 N6 O26	

[IMAGE] Alert level G

REFLT03_ALERT_4_G Please check that the estimate of the number of Frie	edel pairs is
correct. If it is not, please give the correct count in th	ne
_publ_section_exptl_refinement section of the submitted Cl	IF.
From the CIF: _diffrn_reflns_theta_max 29.68	
From the CIF: _reflns_number_total 19000	
Count of symmetry unique reflns 11667	
Completeness (_total/calc) 162.85%	
TEST3: Check Friedels for noncentro structure	
Estimate of Friedel pairs measured 7333	
Fraction of Friedel pairs measured 0.629	
Are heavy atom types Z>Si present yes	
PLAT007_ALERT_5_G Note: Number of Unrefined D-H Atoms	8
PLAT232_ALERT_2_G Hirshfeld Test Diff (M-X) Mn4 0121	5.7 su
PLAT432_ALERT_2_G Short Inter XY Contact C7 C63	3.18 Ang.
PLAT432_ALERT_2_G Short Inter XY Contact C23 C107	3.17 Ang.
PLAT720_ALERT_4_G Number of Unusual/Non-Standard Labels	51
PLAT791_ALERT_4_G Note: The Model has Chirality at C124 (Verify)	S
PLAT791_ALERT_4_G Note: The Model has Chirality at C144 (Verify)	S
PLAT808_ALERT_5_G No Parseable SHELXL Style Weighting Scheme Found	!
PLAT860_ALERT_3_G Note: Number of Least-Squares Restraints	97

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0 ALERT level A = Most likely a serious problem - resolve or explain
7 ALERT level B = A potentially serious problem, consider carefully
14 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
0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
18 ALERT type 2 Indicator that the structure model may be wrong or deficient
4 ALERT type 3 Indicator that the structure quality may be low
7 ALERT type 4 Improvement, methodology, query or suggestion
2 ALERT type 5 Informative message, check
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Publication of your CIF

You should 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 nature of your study may justify the reported deviations from journal submission requirements and the more serious of these should 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.

If you wish to submit your CIF for publication in Acta Crystallographica Section C or E, you should upload your CIF via the web. If your CIF is to form part of a submission to another IUCr journal, you will be asked, either during electronic submission or by the Co-editor handling your paper, to upload your CIF via our web site.

PLATON version of 21/12/2011; check.def file version of 16/12/2011

Datablock I - ellipsoid plot

[IMAGE]