checkCIF/PLATON report

No syntax errors found. CIF dictionary Interpreting this report

Datablock: danr129a

Bond precision:	C-C = 0.0100 A	V	Navelength=	0.71073
Cell:	a=30.433(8) alpha=90	b=6.7319(11) 54(3)	c=28.332(6)
Temperature:	120 K	Deca-112.	54(5)	gamma-90
	Calculated		Reported	
Volume	5361(2)		5361(2)	
Space group	Сс		Cc	
Hall group	C -2yc		?	
Moiety formula	C24 H40 Ag N O4	S2 Si	?	
Sum formula	C24 H40 Ag N O4	S2 Si	C24 H42 AG	N O4 S2 SI
Mr	606.67		608.67	
Dx,g cm-3	1.503		1.508	
Z	8		8	
Mu (mm-1)	0.983		0.983	
F000	2528.0		2544.0	
F000′	2524.26			
h,k,lmax	40,8,37		40,8,36	
Nref	6600[13196]		9316	
Tmin,Tmax	0.838,0.934		0.820,0.93	4
Tmin'	0.813			
Correction methe	od= MULTI-SCAN			
Data completene	ss= 1.41/0.71	Theta(ma	ax)= 28.210	
R(reflections)=	0.0473(7311)	wR2(ref]	lections)=	0.1015(9316)
s = 1.031	Npar=	600		
The following ALERT test-name_AI Click on the hyperl	TS were generated. Ea LERT_alert-type_alert Links for more detail	ch ALERT has -level . s of the tes	the format t.	
Alert level B				

PLAT232_ALERT_2_B Hirshfeld Test Diff (M-X) Ag1 -- 01 .. 13.25 su

Author Response: Atom identities consistent with synthetic method.

PLAT241_ALERT	_2_B Check High	Ueq as Comp	pared to Ne	eighbors	for	05	
Author F	Response: Atom identiti	es consistent	with synthe	tic metho	d.		
PLAT242_ALERT	_2_B Check Low	Ueq as Comp	pared to Ne	eighbors	for	Nl	
Author F	Author Response: Atom identities consistent with synthetic method.						
PLAT242_ALERT	_2_B Check Low	Ueq as Comp	pared to Ne	eighbors	for	N2	
Author F	Response: Atom identiti	es consistent	with synthe	tic metho	d.		
PLAT430_ALERT	_2_B Short Inter D	.A Contact	03	04		2.68	Ang.
Author Response: Initial solutions show H-bonding interactions however H-atom positions are computationally unstable and were ignored.							
PLAT430_ALERT	_2_B Short Inter D	.A Contact	04	06	•••	2.78	Ang.
Author Response: Initial solutions show H-bonding interactions however H-atom positions are computationally unstable and were ignored.							
PLAT430_ALERT	_2_B Short Inter D	.A Contact	07	08	•••	2.71	Ang.
Author Response: Initial solutions show H-bonding interactions however H-atom positions are computationally unstable and were ignored.							
PLAT115_ALERT	_5_B ADDSYM Detects	Noncrystallo	ographic In	nversion	•••	96	PerFi
Author Response: Solutions in C2/c (R ~14%) are computationally unstable unless 691 restraints are applied. The current structure in Cc uses only 50 restraints.							

Alert level C
STRVA01_ALERT_4_C Flack test results are ambiguous.
From the CIF: _refine_ls_abs_structure_Flack 0.520
From the CIF: _refine_ls_abs_structure_Flack_su 0.020
PLAT213_ALERT_2_C Atom 03 has ADP max/min Ratio 3.30 prola
PLAT241_ALERT_2_C Check High Ueq as Compared to Neighbors for 01

Author Response: Atom identities consistent with synthetic method.

PLAT342_ALERT_3_C Low Bond Precision on C-C Bonds (x 1	000) Ang	10
PLAT041_ALERT_1_C Calc. and Reported SumFormula Strin	ngs Differ	?
PLAT068_ALERT_1_C Reported F000 Differs from Calcd (or I	Missing)	?
PLAT234_ALERT_4_C Large Hirshfeld Difference C4	C5 0.	16 Ang.

Alert level G

FORMU01_ALERT_2_G There is a discrepancy between the atom counts in the _chemical_formula_sum and the formula from the _atom_site* data. Atom count from _chemical_formula_sum:C24 H42 Ag1 N1 O4 S2 Si1 Atom count from the _atom_site data: C24 H40 Ag1 N1 O4 S2 Si1 CELLZ01_ALERT_1_G Difference between formula and atom_site contents detected.

Author Response: See response to PLAT430

CELLZ01_ALERT_1_G WARNING: H atoms missing from atom site list. Is this intentional? From the CIF: _cell_formula_units_Z 8 From the CIF: _chemical_formula_sum C24 H42 Ag N O4 S2 Si TEST: Compare cell contents of formula and atom_site data

atom	Z*formula	cif site	s diff
С	192.00	192.00	0.00
H	336.00	320.00	16.00
Ag	8.00	8.00	0.00
N	8.00	8.00	0.00
0	32.00	32.00	0.00
S	16.00	16.00	0.00
Si	8.00	8.00	0.00

Author Response: See response to PLAT430

REFLT03_ALERT_4_G WARNING: Large fraction of Friedel related reflns may be needed to determine absolute structure From the CIF: _diffrn_reflns_theta_max 28.21 From the CIF: _reflns_number_total 9316 Count of symmetry unique reflns 6600 Completeness (_total/calc) 141.15% TEST3: Check Friedels for noncentro structure Estimate of Friedel pairs measured 2716 Fraction of Friedel pairs measured 0.412 Are heavy atom types Z>Si present yes PLAT860_ALERT_3_G Note: Number of Least-Squares Restraints 50 PLAT033_ALERT_4_G Flack x Parameter Value Deviates from Zero 0.52

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0 ALERT level A = In general: serious problem
8 ALERT level B = Potentially serious problem
7 ALERT level C = Check and explain
6 ALERT level G = General alerts; check
4 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
10 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
4 ALERT type 4 Improvement, methodology, query or suggestion
1 ALERT type 5 Informative message, check
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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*, 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 13/08/2009; check.def file version of 12/08/2009

Datablock danr129a - ellipsoid plot

