



checkCIF/PLATON report

Structure factors have been supplied for datablock(s) K8Zn8_TeO3_12_6_H2O

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: K8Zn8_TeO3_12_6_H2O

Bond precision:	Te- O = 0.0050 Å	Wavelength=1.54178	
Cell:	a=9.43449 (8)	b=9.43449 (8)	c=7.70778 (7)
	alpha=90	beta=90	gamma=120
Temperature:	213 K		
	Calculated	Reported	
Volume	594.151 (11)	594.150 (11)	
Space group	P 63/m	P 63/m	
Hall group	-P 6c	-P 6c	
Moiety formula	09 Te3 Zn2 [+ solvent]	09 Te3 Zn2	
Sum formula	09 Te3 Zn2 [+ solvent]	09 Te3 Zn2	
Mr	657.58	657.54	
Dx, g cm ⁻³	3.676	3.675	
Z	2	2	
Mu (mm ⁻¹)	62.212	62.212	
F000	576.0	576.0	
F000'	571.06		
h, k, lmax	11, 11, 9	11, 11, 9	
Nref	444	444	
Tmin, Tmax	0.323, 0.504	0.069, 0.528	
Tmin'	0.000		

Correction method= # Reported T Limits: Tmin=0.069 Tmax=0.528
AbsCorr = ANALYTICAL

Data completeness= 1.000

Theta(max)= 74.284

R(reflections)= 0.0236(444)

wR2(reflections)=
0.0562(444)

S = 1.196

Npar= 29

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

PLAT975_ALERT_2_C	Check Calcd Resid. Dens.	0.58Ang From O1	.	0.50 eA-3
PLAT975_ALERT_2_C	Check Calcd Resid. Dens.	0.58Ang From O1	.	0.50 eA-3
PLAT975_ALERT_2_C	Check Calcd Resid. Dens.	0.79Ang From O1	.	0.41 eA-3

Alert level G

PLAT004_ALERT_5_G	Polymeric Structure Found with Maximum Dimension			3 Info
PLAT083_ALERT_2_G	SHELXL Second Parameter in WGHT Unusually Large			5.89 Why ?
PLAT143_ALERT_4_G	s.u. on c - Axis Small or Missing			0.00007 Ang.
PLAT432_ALERT_2_G	Short Inter X...Y Contact Tel ..O1			3.28 Ang.
	1-y,x-y,1/2-z =	11_656	Check	
PLAT605_ALERT_4_G	Largest Solvent Accessible VOID in the Structure			180 A**3
PLAT794_ALERT_5_G	Tentative Bond Valency for Tel (IV)			3.89 Info
PLAT794_ALERT_5_G	Tentative Bond Valency for Zn1 (II)			2.22 Info
PLAT869_ALERT_4_G	ALERTS Related to the Use of SQUEEZE Suppressed			! Info
PLAT961_ALERT_5_G	Dataset Contains no Negative Intensities			Please Check
PLAT965_ALERT_2_G	The SHELXL WEIGHT Optimisation has not Converged			Please Check
PLAT967_ALERT_5_G	Note: Two-Theta Cutoff Value in Embedded .res ..			148.6 Degree
PLAT969_ALERT_5_G	The 'Henn et al.' R-Factor-gap value			9.893 Note
	Predicted wR2: Based on SigI**2 0.57 or SHELX Weight	4.70		
PLAT994_ALERT_1_G	SHELXL .ins Contains no or MERG 0 Instruction ..			! Note

- 0 **ALERT level A** = Most likely a serious problem - resolve or explain
0 **ALERT level B** = A potentially serious problem, consider carefully
3 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight
13 **ALERT level G** = General information/check it is not something unexpected
- 1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
6 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
3 ALERT type 4 Improvement, methodology, query or suggestion
6 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. It is up to the individual to critically assess their own results and, if necessary, seek expert advice.

