

# Datablock: mo\_bgo\_0m

Bond precision:	Bi- 0 = 0.0040 A	Wavelength=0.71073
Cell:	a=10.5236(2)    b=10.5236(2)    c=10.5236(2)	
	alpha=90    beta=90    gamma=90	
Temperature: 400 K		
	Calculated	Reported
Volume	1165.45(7)	1165.45(7)
Space group	I -4 3 d	I -4 3 d
Hall group	I -4bd 2c 3	I -4bd 2c 3
Moiety formula	Bi8 Ge6 O24	Bi4 Ge3 O12
Sum formula	Bi8 Ge6 O24	Bi4 Ge3 O12
Mr	2491.50	1245.69
Dx,g cm-3	7.100	7.099
Z	2	4
Mu (mm-1)	67.864	67.864
F000	2096.0	2096.0
F000'	2040.12	
h,k,lmax	15,15,15	15,15,15
Nref	328[ 187]	327
Tmin,Tmax	0.047,0.034	0.363,0.746
Tmin'	0.024	
Correction method=	# Reported T Limits: Tmin=0.363	
Tmax=0.746 AbsCorr =	MULTI-SCAN	
Data completeness=	1.75/1.00    Theta(max)= 31.396	
R(reflections)= 0.0114( 325)		wR2(reflections)= 0.0293( 327)
S = 1.212	Npar= 16	

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

<a href="#">PLAT041_ALERT_1_C</a>	Calc. and Reported SumFormula	Strings Differ	Please Check
	Calc: Bi8 Ge6 O24		
	Rep.: Bi4 Ge3 O12		
<a href="#">PLAT042_ALERT_1_C</a>	Calc. and Reported MoietyFormula	Strings Differ	Please Check
	Calc: Bi8 Ge6 O24		
	Rep.: Bi4 Ge3 O12		

## Alert level G

<a href="#">PLAT019_ALERT_1_G</a>	_diffrn_measured_fraction_theta_full/*_max < 1.0	0.995	Report
<a href="#">PLAT045_ALERT_1_G</a>	Calculated and Reported Z Differ by a Factor ...	0.500	Check
<a href="#">PLAT304_ALERT_4_G</a>	Non-Integer Number of Atoms in ..... (Resd 1)	17.42	Check
<a href="#">PLAT720_ALERT_4_G</a>	Number of Unusual/Non-Standard Labels .....	3	Note
	Bi01    Ge02    O003		
<a href="#">PLAT794_ALERT_5_G</a>	Tentative Bond Valency for Bi01 (III) .	3.30	Info
<a href="#">PLAT898_ALERT_4_G</a>	Second Reported H-M Symbol in CIF Ignored .....	!	Check
<a href="#">PLAT961_ALERT_5_G</a>	Dataset Contains no Negative Intensities .....		Please Check
<a href="#">PLAT969_ALERT_5_G</a>	The 'Henn et al.' R-Factor-gap value .....	1.959	Note
	Predicted wR2: Based on SigI**2 1.50 or SHELX Weight	2.42	

- 0 **ALERT level A** = Most likely a serious problem - resolve or explain  
0 **ALERT level B** = A potentially serious problem, consider carefully  
2 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight  
8 **ALERT level G** = General information/check it is not something unexpected
- 4 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
0 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  
3 ALERT type 5 Informative message, check

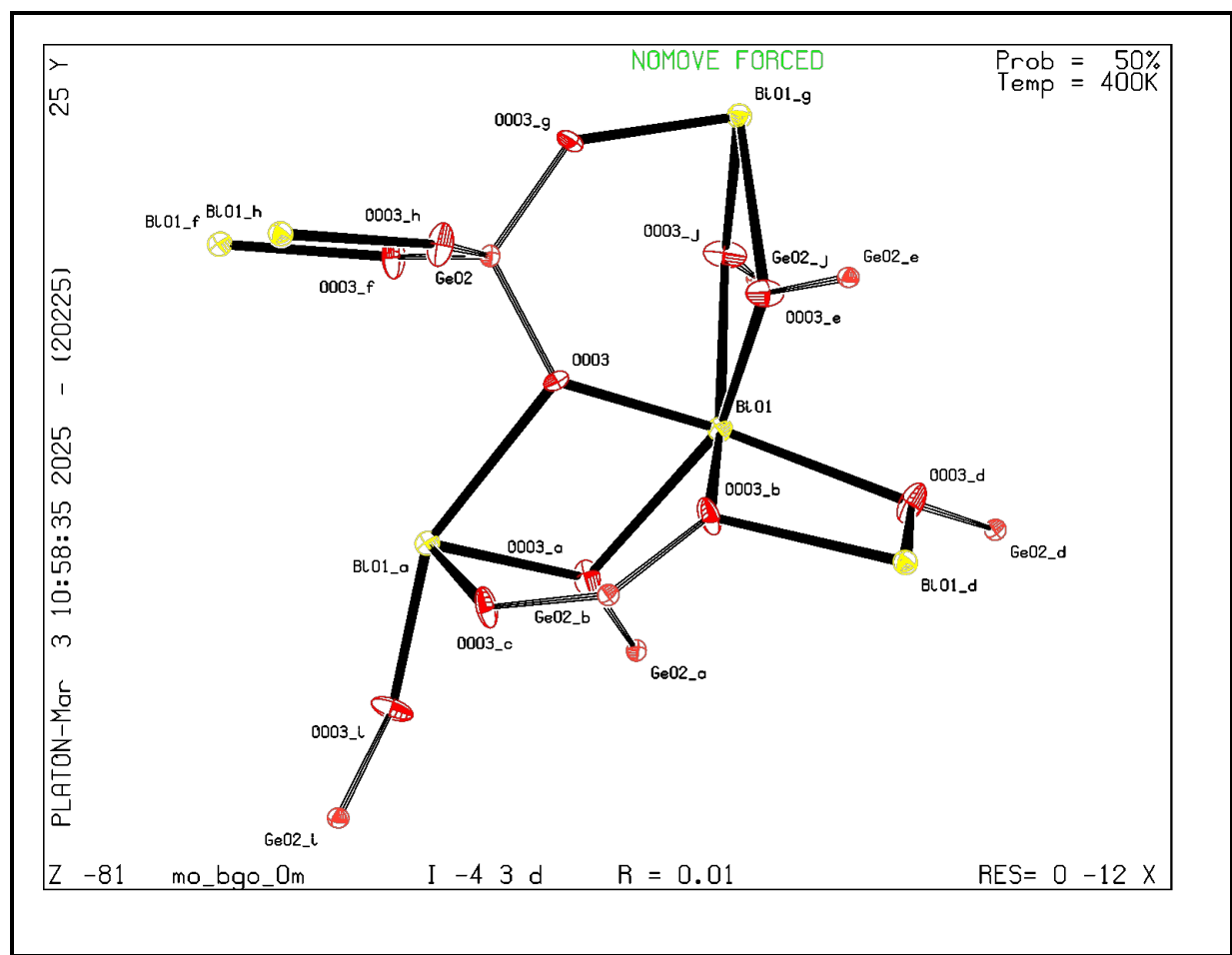
It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious 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.

## Publication of your CIF in IUCr journals

## Publication of your CIF in other journals

**PLATON version of 02/02/2025; check.def file version of 02/02/2025**

## Datablock mo bgo 0m - ellipsoid plot



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