

checkCIF/PLATON report

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

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: EindSiHBr2

Bond precision: C-C = 0.0026 A Wavelength=0.71073

Cell: a=7.972(3) b=11.070(4) c=16.621(5)
 alpha=89.972(4) beta=80.770(3) gamma=73.314(5)

Temperature: 100 K

| | Calculated | Reported |
|----------------|----------------|----------------|
| Volume | 1385.2(8) | 1385.1(8) |
| Space group | P -1 | P -1 |
| Hall group | -P 1 | -P 1 |
| Moiety formula | C28 H46 Br2 Si | C28 H46 Br2 Si |
| Sum formula | C28 H46 Br2 Si | C28 H46 Br2 Si |
| Mr | 570.54 | 570.56 |
| Dx,g cm-3 | 1.368 | 1.368 |
| Z | 2 | 2 |
| Mu (mm-1) | 2.983 | 2.992 |
| F000 | 596.0 | 596.0 |
| F000' | 595.19 | |
| h,k,lmax | 10,14,21 | 10,14,21 |
| Nref | 6361 | 6332 |
| Tmin,Tmax | 0.557,0.620 | 0.494,0.620 |
| Tmin' | 0.293 | |

Correction method= # Reported T Limits: Tmin=0.494 Tmax=0.620
AbsCorr = MULTI-SCAN

Data completeness= 0.995 Theta(max)= 27.499

R(reflections)= 0.0298(5390) wR2(reflections)= 0.0803(6332)

S = 1.016 Npar= 292

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

PLAT410_ALERT_2_C Short Intra H...H Contact H1 ..H15B . 1.90 Ang.
PLAT413_ALERT_2_C Short Inter XH3 .. XHn H24C ..H24C . 2.13 Ang.
PLAT420_ALERT_2_C D-H Without Acceptor Si1 --H1 . Please Check

● Alert level G

CHEMS02_ALERT_1_G Please check that you have entered the correct
_publ_requested_category classification of your compound;
FI or CI or EI for inorganic; FM or CM or EM for metal-organic;
FO or CO or EO for organic.
From the CIF: _publ_requested_category CHOOSE FI FM FO CI CM CO or
From the CIF: _chemical_formula_sum:C28 H46 Br2 Si1
PLAT882_ALERT_1_G No Datum for _diffrn_reflns_av_unetI/netI Please Do !

- 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
2 **ALERT level G** = General information/check it is not something unexpected
- 2 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
0 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 09/11/2017; check.def file version of 08/11/2017

Datablock EindSiHBr2 - ellipsoid plot

