checkCIF/PLATON report

Datablock: 41026am

Bond precision: C-C = 0.0031 A Wavelength=0.71073

Cell: a=5.0633(2) b=7.8476(3) c=28.8648(9)

alpha=92.227(2) beta=93.436(2) gamma=102.045(2)

Temperature: 273 K

	Calculated	Reported
Volume	1118.12(7)	1118.12(7)
Space group	P -1	P-1
Hall group	-P 1	?
Moiety formula	C21 H38 N O, Cl, O	?
Sum formula	C21 H38 C1 N O2	C21 H38 C1 N O
Mr	371.97	355.97
Dx,g cm-3	1.105	1.057
Z	2	2
Mu (mm-1)	0.184	0.178
F000	408.0	392.0
F000'	408.44	
h,k,lmax	6,10,38	6,10,37
Nref	5436	5404
Tmin,Tmax	0.982,0.984	0.717,0.916
Tmin'	0.982	

Correction method= NONE

Data completeness= 0.994 Theta(max)= 28.040

R(reflections) = 0.0564(3348) wR2(reflections) = 0.1997(5404)

S = 1.071 Npar= 229

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 A

PLAT306_ALERT_2_A Isolated Oxygen Atom (H-atoms Missing ?)

Alert level C

ABSTY03_ALERT_1_C The _exptl_absorpt_correction_type has been given as none. However values have been given for Tmin and Tmax. Remove

02

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these if an absorption correction has not been applied.
  From the CIF: _exptl_absorpt_correction_T_min 0.717
  From the CIF: _exptl_absorpt_correction_T_max
                                               0.916
CHEMW03_ALERT_2_C The ratio of given/expected molecular weight as
           calculated from the \_atom\_site* data lies outside
           the range 0.99 <> 1.01
          From the CIF: _cell_formula_units_Z
          From the CIF: _chemical_formula_weight
                                                         355.97
          TEST: Calculate formula weight from _atom_site_*
                   mass
                          num
                                  sum
          atom
          C
                   12.01 21.00 252.23
                   1.01 38.00
          Η
                                 38.30
                          1.00 14.01
                   14.01
          N
                   16.00
                          2.00 32.00
          Cl
                   35.45
                          1.00 35.45
          Calculated formula weight
                                                371.99
CRYSC01_ALERT_1_C No recognised colour has been given for crystal colour.
PLAT431_ALERT_2_C Short Inter HL..A Contact Cl1 .. O2 ..
                                                                      3.15 Ang.
PLAT041_ALERT_1_C Calc. and Reported SumFormula
                                                Strings Differ
                                                                        ?
PLAT043_ALERT_1_C Check Reported Molecular Weight .....
                                                                    355.97
PLAT068_ALERT_1_C Reported F000 Differs from Calcd (or Missing)...
Alert level G
{\tt FORMU01\_ALERT\_2\_G} \quad {\tt 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:C21 H38 Cl1 N1 O1
           Atom count from the _atom_site data: C21 H38 Cl1 N1 O2
CELLZ01_ALERT_1_G Difference between formula and atom_site contents detected.
CELLZ01_ALERT_1_G ALERT: Large difference may be due to a
           symmetry error - see SYMMG tests
          From the CIF: _cell_formula_units_Z
          TEST: Compare cell contents of formula and atom_site data
                  Z*formula cif sites diff
          atom
                    42.00
                            42.00 0.00
          C
          Η
                    76.00
                             76.00
                                    0.00
          Cl
                     2.00
                              2.00
                                    0.00
          Ν
                     2.00
                              2.00
                                     0.00
                     2.00
                              4.00 -2.00
PLAT072_ALERT_2_G SHELXL First Parameter in WGHT Unusually Large.
                                                                     0.12
PLAT154_ALERT_1_G The su's on the Cell Angles are Equal (x 10000)
                                                                       200 Deg.
PLAT199_ALERT_1_G Check the Reported _cell_measurement_temperature
                                                                       273 K
PLAT200_ALERT_1_G Check the Reported __diffrn_ambient_temperature
                                                                       273 K
  1 ALERT level A = In general: serious problem
  0 ALERT level B = Potentially serious problem
  7 ALERT level C = Check and explain
  7 ALERT level G = General alerts; check
  10 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
  5 ALERT type 2 Indicator that the structure model may be wrong or deficient
  O 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
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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 22/10/2010; check.def file version of 11/10/2010

Datablock 41026am - ellipsoid plot

