

```
#####
#####
###      FullProf-generated CIF output file   (version: May 2011)
###
###      Template of CIF submission form for structure report
###
#####
#####
```

```
# This file has been generated using FullProf.2k taking one example of
# structure report provided by Acta Cryst. It is given as a 'template'
with
# filled structural items. Many other items are left unfilled and it is
the
# responsibility of the user to properly fill or suppress them. In
principle
# all question marks '?' should be replaced by the appropriate text or
# numerical value depending on the kind of CIF item.
# See the document: cif_core.dic (URL: http://www.iucr.org) for details.
```

```
# Please notify any error or suggestion to:
#           Juan Rodriguez-Carvajal (jrc@ill.eu)
# Improvements will be progressively added as needed.
```

```
#=====
=====
data_TON
#=====
=====
```

```
# PROCESSING SUMMARY (IUCr Office Use Only)
```

```
#=====
=====
```

```
# 1. SUBMISSION DETAILS
```

```
# Definition of non standard CIF items (Reliability indices used in
FULLPROF)
```

```
loop_
_publ_manuscript_incl_extra_item
_publ_manuscript_incl_extra_info
_publ_manuscript_incl_extra_defn
#      Name                               Explanation
Standard?
#      -----                               -----
```

Standard?	Name	Explanation
no	'_pd_proc_ls_prof_cR_factor'	'Prof. R-factor CORRECTED for background'
no	'_pd_proc_ls_prof_cwR_factor'	'wProf.R-factor CORRECTED for background'
no	'_pd_proc_ls_prof_cwR_expected'	'wProf.Expected CORRECTED for background'
no	'_pd_proc_ls_prof_chi2'	'Chi-square for all considered points'

```
'_pd_proc_ls_prof_echi2'          'Chi-2 for points with Bragg
contribution' no
#=====
=====
```

```
# 3. TITLE AND AUTHOR LIST
```

```
_journal_name_full          'The Journal of Physical Chemistry C'
_journal_year                2017
_journal_volume              ?
_journal_page                ?
_publ_contact_author_name    ''Julien Haines'
_publ_contact_author_address
;Institut Charles Gerhardt Montpellier,
UMR 5253 CNRS,
Universit\ 'e de Montpellier,
Montpellier,
France
;
_publ_contact_author_email    julien.haines@umontpellier.fr
_publ_section_title
;
High-pressure phase transition, pore collapse and amorphisation in the
siliceous 1D zeolite, TON
;
loop_
_publ_author_name
_publ_author_footnote
_publ_author_address
'Jean-Marc Thibaud' ?
;Institut Charles Gerhardt Montpellier,
UMR 5253 CNRS,
Universit\ 'e de Montpellier,
Montpellier,
France
;
'Jerome Rouquette' ?
;Institut Charles Gerhardt Montpellier,
UMR 5253 CNRS,
Universit\ 'e de Montpellier,
Montpellier,
France
;
'Patrick Hermet' ?
;Institut Charles Gerhardt Montpellier,
UMR 5253 CNRS,
Universit\ 'e de Montpellier,
Montpellier,
France
;
'Kamil Dzuibek' ?
;European Laboratory for non Linear Spectroscopy (LENS), Sesto
Fiorentino,
Firenze,
Italy
Dipartimento di Chimica dell'Universit\ `a di Firenze,
Sesto Fiorentino,
Firenze,
```

Italy
;
'Federico A. Gorelli' ?
;European Laboratory for non Linear Spectroscopy (LENS), Sesto
Fiorentino,
Firenze,
Italy
INO-CNR,
Sesto Fiorentino,
Firenze,
Italy
;
'Mario Santoro' ?
; INO-CNR,
Sesto Fiorentino,
Firenze,
Italy
European Laboratory for non Linear Spectroscopy (LENS), Sesto
Fiorentino,
Firenze,
Italy
;
'Gaston Garbarino' ?
;European Synchrotron Radiation Facility (ESRF),
Grenoble,
France
;
'Frederico G. Alabarse' ?
;Synchrotron SOLEIL,
Saint Aubin,
France
;
'Olivier Cambon' ?
;Institut Charles Gerhardt Montpellier,
UMR 5253 CNRS,
Universit\ 'e de Montpellier,
Montpellier,
France
;
'Francesco Di Renzo' ?
;Institut Charles Gerhardt Montpellier,
UMR 5253 CNRS,
ENSCM-Universit\ 'e de Montpellier,
Montpellier,
France
;
'Arie van der Lee' ?
;Institut Europ\ 'een des Membranes de Montpellier,
UMR-CNRS 5635,
Universit\ 'e de Montpellier,
Montpellier,
France
;
'Julien Haines' .
;Institut Charles Gerhardt Montpellier,
UMR 5253 CNRS,
Universit\ 'e de Montpellier,
Montpellier,

```

France
;

# The loop structure below should contain the names and addresses of all

#####

# 4. TEXT

_publ_section_synopsis
; ?
;
_publ_section_abstract
; ?
;
_publ_section_comment
; ?
;
_publ_section_exptl_prep      # Details of the preparation of the
sample(s)                    # should be given here.

; ?
;
_publ_section_exptl_refinement
; ?
;
_publ_section_references
; ?
;
_publ_section_figure_captions
; ?
;
_publ_section_acknowledgements
; ?
;

#####

#####

# If more than one structure is reported, the remaining sections should
be
# completed per structure. For each data set, replace the '?' in the
# data_? line below by a unique identifier.

# data_TON

#####

# 5. CHEMICAL DATA

_chemical_name_systematic
; ?
;

```

```

_chemical_name_common          TON
_chemical_formula_moiety      '   O48 Si24 C3.26'
_chemical_formula_structural  ?
_chemical_formula_analytical  ?
_chemical_formula_iupac      ?
_chemical_formula_sum         'C3.26 O48 Si24'
_chemical_formula_weight      1481.22
_chemical_melting_point       ?
_chemical_compound_source     ?          # for minerals and
                                   # natural products

```

```

loop_
  _atom_type_symbol
  _atom_type_scatter_Cromer_Mann_a1
  _atom_type_scatter_Cromer_Mann_b1
  _atom_type_scatter_Cromer_Mann_a2
  _atom_type_scatter_Cromer_Mann_b2
  _atom_type_scatter_Cromer_Mann_a3
  _atom_type_scatter_Cromer_Mann_b3
  _atom_type_scatter_Cromer_Mann_a4
  _atom_type_scatter_Cromer_Mann_b4
  _atom_type_scatter_Cromer_Mann_c
  _atom_type_scatter_dispersion_real
  _atom_type_scatter_dispersion_imag
  _atom_type_scatter_source
o      3.04850  13.27710  2.28680  5.70110  1.54630  0.32390
      0.86700  32.90890  0.25080  0.00300  0.00400

```

```

International_Tables_for_Crystallography_Vol.C(1991)_Tables_6.1.1.4_and_6
.1.1.5
si      6.29150  2.43860  3.03530  32.33370  1.98910  0.67850
      1.54100  81.69370  1.14070  0.04200  0.04300

```

```

International_Tables_for_Crystallography_Vol.C(1991)_Tables_6.1.1.4_and_6
.1.1.5
c      2.31000  20.84390  1.02000  10.20750  1.58860  0.56870
      0.86500  51.65120  0.21560  0.00000  0.00100

```

```

International_Tables_for_Crystallography_Vol.C(1991)_Tables_6.1.1.4_and_6
.1.1.5

```

```

#=====
=====

```

6. POWDER SPECIMEN AND CRYSTAL DATA

```

_symmetry_cell_setting          Orthorhombic
_symmetry_space_group_name_H-M  'P b n 21'
_symmetry_space_group_name_Hall 'P 2c -2ab'

```

```

loop_
  _symmetry_equiv_pos_as_xyz  #<--must include 'x,y,z'
'x,y,z'
'-x+1/2,y+1/2,z'
'x+1/2,-y+1/2,z+1/2'
'-x,-y,z+1/2'

```

```

_cell_length_a                  13.5365(3)

```

```

_cell_length_b          16.8149(6)
_cell_length_c          4.90294(9)
_cell_angle_alpha      90.00000
_cell_angle_beta       90.00000
_cell_angle_gamma      90.00000
_cell_volume            1115.98(5)
_cell_formula_units_Z  1
_cell_measurement_temperature 293
_cell_measurement_pressure 1560000
_cell_measurement_reflns_used 254
_cell_measurement_theta_min 2.05
_cell_measurement_theta_max 20.50

_cell_special_details
; ?
;
# The next three fields give the specimen dimensions in mm. The
equatorial
# plane contains the incident and diffracted beam.

_pd_spec_size_axial    ?      # perpendicular to
                          # equatorial plane
_pd_spec_size_equat    ?      # parallel to
                          # scattering vector
                          # in transmission
_pd_spec_size_thick    ?      # parallel to
                          # scattering vector
                          # in reflection

# The next five fields are character fields that describe the specimen.

_pd_spec_mounting      # This field should be
                          # used to give details of the
                          # container.

; 'mounted in a diamond-anvil cell '
;
_pd_spec_mount_mode    ?      # options are 'reflection'
                          # or 'transmission'
_pd_spec_shape         ?      # options are 'cylinder'
                          # 'flat_sheet' or 'irregular'
_pd_char_particle_morphology ?
_pd_char_colour        ?      # use ICDD colour descriptions

# The following three fields describe the preparation of the specimen.
# The cooling rate is in K/min. The pressure at which the sample was
# prepared is in kPa. The temperature of preparation is in K.

_pd_prep_cool_rate     ?
_pd_prep_pressure      ?
_pd_prep_temperature   ?

# The next four fields are normally only needed for transmission
experiments.

_exptl_absorpt_coefficient_mu ?
_exptl_absorpt_correction_type ?
_exptl_absorpt_process_details ?
_exptl_absorpt_correction_T_min ?

```

```

_exptl_absorpt_correction_T_max      ?

#####

# 7. EXPERIMENTAL DATA

_exptl_special_details
; ?
;

# The following item is used to identify the equipment used to record
# the powder pattern when the diffractogram was measured at a laboratory
# other than the authors' home institution, e.g. when neutron or
# synchrotron
# radiation is used.

_pd_instr_location
; ?
;
_pd_calibration_special_details      # description of the method
used                                 # to calibrate the instrument

; ?
;

_diffrn_ambient_temperature          293
_diffrn_ambient_pressure             15600000
_diffrn_source                       'ESRF synchrotron'
_diffrn_radiation_type               synchrotron
_diffrn_source_target                ? # Put here the chemical symbol of the
anode

_diffrn_radiation_monochromator      ?
_diffrn_measurement_device_type      ID09A
_diffrn_radiation_wavelength         0.414132
_diffrn_measurement_method           ?
_diffrn_detector_area_resol_mean     ? # Not in version 2.0.1
_diffrn_detector                     ?
_diffrn_detector_type                'MAR555 flat panel detector'
_pd_meas_scan_method                 ? # options are 'step', 'cont',
# 'tof', 'fixed' or
# 'disp' (= dispersive)

_pd_meas_special_details
; ?
;

# The following four items give details of the measured (not processed)
# powder pattern.  Angles are in degrees.

_pd_meas_number_of_points            5544
_pd_meas_2theta_range_min            0.04121
_pd_meas_2theta_range_max            35.18017
_pd_meas_2theta_range_inc            0.006341

#####
=====

```

8. REFINEMENT DATA

_refine_special_details
; ?
;

Use the next field to give any special details about the fitting of the
powder pattern.

_pd_proc_ls_special_details
; ?
;

The next three items are given as text.

_pd_proc_ls_profile_function ?
_pd_proc_ls_background_function ?
_pd_proc_ls_pref_orient_corr
; ?
;

The following profile R-factors are NOT CORRECTED for background
The sum is extended to all non-excluded points.
These are the current CIF standard

_pd_proc_ls_prof_R_factor	0.1273
_pd_proc_ls_prof_wR_factor	0.2019
_pd_proc_ls_prof_wR_expected	0.4530

The following profile R-factors are CORRECTED for background
The sum is extended to all non-excluded points.
These items are not in the current CIF standard, but are defined above

_pd_proc_ls_prof_cR_factor	12.1583
_pd_proc_ls_prof_cwR_factor	4.6022
_pd_proc_ls_prof_cwR_expected	10.3256

The following items are not in the CIF standard, but are defined above

_pd_proc_ls_prof_chi2	0.1987
_pd_proc_ls_prof_echi2	0.1987

Items related to LS refinement

_refine_ls_R_I_factor	6.0252
_refine_ls_number_reflns	2253
_refine_ls_number_parameters	88
_refine_ls_number_restraints	60
_refine_ls_goodness_of_fit_all	0.446

The following four items apply to angular dispersive measurements.
2theta minimum, maximum and increment (in degrees) are for the
intensities used in the refinement.

_pd_proc_2theta_range_min	0.0412
_pd_proc_2theta_range_max	35.1802
_pd_proc_2theta_range_inc	0.006341


```
_pd_proc_wavelength          0.414132

_pd_block_diffraction_id    ? # The id used for the block
containing                  # the powder pattern profile
(section 11)
```

```
# Give appropriate details in the next two text fields.
```

```
_pd_proc_info_excluded_regions    2
_pd_proc_info_data_reduction      ?
```

```
# The following items are used to identify the programs used.
```

```
_computing_data_collection      ?
_computing_structure_solution   ?
_computing_structure_refinement  FULLPROF
_computing_molecular_graphics   ?
_computing_publication_material ?
```

```
#####
=====
```

```
# 9. ATOMIC COORDINATES AND DISPLACEMENT PARAMETERS
```

```
loop_
  _atom_site_label
  _atom_site_fract_x
  _atom_site_fract_y
  _atom_site_fract_z
  _atom_site_U_iso_or_equiv
  _atom_site_occupancy
  _atom_site_adp_type          # Not in version 2.0.1
  _atom_site_type_symbol
O1  0.0742(20)  0.566(2)  0.183(11)  0.034(7)  1.00000  Uiso  O
O12 0.612(2)   0.079(2)  0.213(12)  0.034(7)  1.00000  Uiso  O
O2  0.0596(19) 0.797(2)  0.748(10)  0.034(7)  1.00000  Uiso  O
O22 0.6167(19) 0.267(3)  0.687(10)  0.034(7)  1.00000  Uiso  O
O3  0.238(3)   0.6436(17) 0.175(10)  0.034(7)  1.00000  Uiso  O
O32 0.798(3)   0.1045(18) 0.180(10)  0.034(7)  1.00000  Uiso  O
O4  0.233(3)   0.493(2)  0.339(7)  0.034(7)  1.00000  Uiso  O
O42 0.727(3)   0.971(2)  0.356(7)  0.034(7)  1.00000  Uiso  O
O5  0.202(3)   0.793(2)  1.081(6)  0.034(7)  1.00000  Uiso  O
O52 0.751(3)   0.244(2)  1.066(6)  0.034(7)  1.00000  Uiso  O
O6  0.483(4)   0.8046(20) 0.567(6)  0.034(7)  1.00000  Uiso  O
O7  0.503(4)   0.846(2)  0.046(6)  0.034(7)  1.00000  Uiso  O
S1  0.283(2)   0.9671(18) 0.661(8)  0.057(5)  1.00000  Uiso  Si
S12 0.8067(19) 0.4454(17) 0.690(9)  0.057(5)  1.00000  Uiso  Si
S2  0.1754(19) 0.8018(16) 0.720(9)  0.057(5)  1.00000  Uiso  Si
S22 0.7335(19) 0.2685(17) 0.745(9)  0.057(5)  1.00000  Uiso  Si
S3  0.487(2)   0.7775(16) 0.217(8)  0.057(5)  1.00000  Uiso  Si
S4  0.492(2)   0.8762(15) 0.75000  0.057(5)  1.00000  Uiso  Si
C1  1.050(4)   1.050(4)  0.11710  0.02(10)  0.20400  Uiso  C
C2  1.050(4)   1.050(4)  0.36710  0.02(10)  0.20400  Uiso  C
C12 -0.055(4)  -0.055(4) 0.11710  0.02(10)  0.20400  Uiso  C
C22 -0.055(4)  -0.055(4) 0.36710  0.02(10)  0.20400  Uiso  C
```

```
# Note: if the displacement parameters were refined anisotropically
```

the U matrices should be given as for single-crystal studies.

=====

10. DISTANCES AND ANGLES / MOLECULAR GEOMETRY

loop_	_geom_bond_atom_site_label_1	_geom_bond_atom_site_label_2	_geom_bond_distance	_geom_bond_site_symmetry_2	_geom_bond_publ_flag
01	O12	2.53(4)	2_555	?	
01	O3	2.57(5)	1_555	?	
01	O4	2.59(5)	1_555	?	
01	O42	2.69(5)	3_464	?	
01	O6	2.57(5)	3_464	?	
01	O7	2.51(6)	3_465	?	
01	S12	1.62(4)	4_664	?	
01	S4	1.51(4)	3_464	?	
012	O1	2.53(4)	2_545	?	
012	O32	2.56(5)	1_555	?	
012	O4	2.74(6)	3_554	?	
012	O42	2.49(5)	1_545	?	
012	O6	2.45(5)	4_664	?	
012	O7	2.58(6)	4_665	?	
012	S1	1.64(4)	4_664	?	
012	S4	1.61(4)	4_664	?	
02	O22	2.46(4)	2_555	?	
02	O32	2.56(5)	4_665	?	
02	O5	2.53(5)	1_555	?	
02	O52	2.80(5)	4_664	?	
02	O6	2.54(5)	3_465	?	
02	O7	2.71(5)	3_465	?	
02	S2	1.58(4)	1_555	?	
02	S3	1.60(4)	3_465	?	
022	O2	2.46(4)	2_545	?	
022	O3	2.48(5)	4_665	?	
022	O5	2.70(5)	4_664	?	
022	O52	2.63(5)	1_555	?	
022	O6	2.60(6)	4_665	?	
022	O7	2.59(6)	4_665	?	
022	S22	1.61(4)	1_555	?	
022	S3	1.60(4)	4_665	?	
03	O1	2.57(5)	1_555	?	
03	O22	2.48(5)	4_664	?	
03	O4	2.66(5)	1_555	?	
03	O42	2.49(5)	3_464	?	
03	O5	2.60(5)	1_554	?	
03	O52	2.69(5)	4_664	?	
03	S12	1.62(4)	4_664	?	
03	S22	1.56(4)	4_664	?	
032	O12	2.56(5)	1_555	?	
032	O2	2.56(5)	4_664	?	
032	O4	2.50(5)	3_554	?	
032	O42	2.59(5)	1_545	?	
032	O5	2.62(5)	4_664	?	

032	052	2.50 (5)	1_554 ?
032	S1	1.63 (5)	4_664 ?
032	S2	1.63 (4)	4_664 ?
04	01	2.59 (5)	1_555 ?
04	012	2.74 (6)	3_455 ?
04	03	2.66 (5)	1_555 ?
04	032	2.50 (5)	3_455 ?
04	042	2.45 (5)	3_464 ?
04	042	2.61 (5)	3_465 ?
04	S1	1.65 (5)	2_545 ?
04	S12	1.38 (5)	4_664 ?
042	01	2.69 (5)	3_565 ?
042	012	2.49 (5)	1_565 ?
042	03	2.49 (5)	3_565 ?
042	032	2.59 (5)	1_565 ?
042	04	2.61 (5)	3_564 ?
042	04	2.45 (5)	3_565 ?
042	S1	1.42 (5)	4_674 ?
042	S12	1.75 (5)	2_655 ?
042	C22	2.98 (7)	1_665 ?
05	02	2.53 (5)	1_555 ?
05	022	2.70 (5)	4_665 ?
05	03	2.60 (5)	1_556 ?
05	032	2.62 (5)	4_665 ?
05	052	2.68 (4)	4_664 ?
05	052	2.54 (4)	4_665 ?
05	S2	1.81 (5)	1_555 ?
05	S22	1.57 (5)	4_665 ?
052	02	2.80 (5)	4_665 ?
052	022	2.63 (5)	1_555 ?
052	03	2.69 (5)	4_665 ?
052	032	2.50 (5)	1_556 ?
052	05	2.54 (4)	4_664 ?
052	05	2.68 (4)	4_665 ?
052	S2	1.47 (5)	4_665 ?
052	S22	1.64 (5)	1_555 ?
06	01	2.57 (5)	3_565 ?
06	012	2.45 (5)	4_665 ?
06	02	2.54 (5)	3_564 ?
06	022	2.60 (6)	4_664 ?
06	07	2.66 (4)	1_555 ?
06	07	2.46 (4)	1_556 ?
06	S3	1.78 (5)	1_555 ?
06	S4	1.51 (4)	1_555 ?
07	01	2.51 (6)	3_564 ?
07	012	2.58 (6)	4_664 ?
07	02	2.71 (5)	3_564 ?
07	022	2.59 (6)	4_664 ?
07	06	2.46 (4)	1_554 ?
07	06	2.66 (4)	1_555 ?
07	S3	1.44 (5)	1_555 ?
07	S4	1.54 (3)	1_554 ?
S1	012	1.64 (4)	4_665 ?
S1	032	1.63 (5)	4_665 ?
S1	04	1.65 (5)	2_555 ?
S1	042	1.42 (5)	4_675 ?
S1	S12	2.76 (5)	3_464 ?
S1	S12	3.00 (6)	3_465 ?

S12	O1	1.62 (4)	4_665 ?
S12	O3	1.62 (4)	4_665 ?
S12	O4	1.38 (5)	4_665 ?
S12	O42	1.75 (5)	2_645 ?
S12	S1	3.00 (6)	3_564 ?
S12	S1	2.76 (5)	3_565 ?
S12	S4	2.98 (4)	2_645 ?
S2	O2	1.58 (4)	1_555 ?
S2	O32	1.63 (4)	4_665 ?
S2	O5	1.81 (5)	1_555 ?
S2	O52	1.47 (5)	4_664 ?
S2	S22	2.89 (6)	4_664 ?
S2	S3	2.88 (4)	3_465 ?
S22	O22	1.61 (4)	1_555 ?
S22	O3	1.56 (4)	4_665 ?
S22	O5	1.57 (5)	4_664 ?
S22	O52	1.64 (5)	1_555 ?
S22	S2	2.89 (6)	4_665 ?
S3	O2	1.60 (4)	3_564 ?
S3	O22	1.60 (4)	4_664 ?
S3	O6	1.78 (5)	1_555 ?
S3	O7	1.44 (5)	1_555 ?
S3	S2	2.88 (4)	3_564 ?
S3	S4	2.83 (4)	1_554 ?
S4	O1	1.51 (4)	3_565 ?
S4	O12	1.61 (4)	4_665 ?
S4	O6	1.51 (4)	1_555 ?
S4	O7	1.54 (3)	1_556 ?
S4	S12	2.98 (4)	2_655 ?
S4	S3	2.83 (4)	1_556 ?
C1	C2	1.22573 (2)	1_555 ?
C1	C2	2.48 (8)	4_774 ?
C1	C12	2.27 (9)	1_665 ?
C1	C12	2.454 (4)	4_664 ?
C1	C12	2.454 (4)	4_665 ?
C1	C22	2.58 (8)	1_665 ?
C1	C22	1.230 (8)	4_664 ?
C2	C1	1.22573 (2)	1_555 ?
C2	C1	2.48 (8)	4_775 ?
C2	C12	2.58 (8)	1_665 ?
C2	C12	1.230 (8)	4_665 ?
C2	C22	2.27 (9)	1_665 ?
C2	C22	2.454 (4)	4_664 ?
C2	C22	2.454 (4)	4_665 ?
C12	C1	2.27 (9)	1_445 ?
C12	C1	2.454 (4)	4_664 ?
C12	C1	2.454 (4)	4_665 ?
C12	C2	2.58 (8)	1_445 ?
C12	C2	1.230 (8)	4_664 ?
C12	C22	1.22573 (2)	1_555 ?
C12	C22	2.67 (8)	4_554 ?
C22	O42	2.98 (7)	1_445 ?
C22	C1	2.58 (8)	1_445 ?
C22	C1	1.230 (8)	4_665 ?
C22	C2	2.27 (9)	1_445 ?
C22	C2	2.454 (4)	4_664 ?
C22	C2	2.454 (4)	4_665 ?
C22	C12	1.22573 (2)	1_555 ?

C22 C12 2.67(8) 4_555 ?

loop_

	_geom_angle_atom_site_label_1				
	_geom_angle_atom_site_label_2				
	_geom_angle_atom_site_label_3				
	_geom_angle				
	_geom_angle_site_symmetry_1				
	_geom_angle_site_symmetry_3				
	_geom_angle_publ_flag				
S12	O1	S4	143(3)	4_664	3_464 ?
S1	O12	S4	177(3)	4_664	4_664 ?
S2	O2	S3	130(3)	1_555	3_465 ?
S22	O22	S3	149(3)	1_555	4_665 ?
S12	O3	S22	163(4)	4_664	4_664 ?
S1	O32	S2	150(3)	4_664	4_664 ?
S1	O4	S12	131(5)	2_545	4_664 ?
S1	O42	S12	142(5)	4_674	2_655 ?
S2	O5	S22	132(4)	1_555	4_665 ?
S2	O52	S22	136(5)	4_665	1_555 ?
S3	O6	S4	141(3)	1_555	1_555 ?
S3	O7	S4	143(4)	1_555	1_554 ?
O12	S1	O32	103(3)	4_665	4_665 ?
O12	S1	O4	113(4)	4_665	2_555 ?
O12	S1	O42	109(4)	4_665	4_675 ?
O32	S1	O4	99(4)	4_665	2_555 ?
O32	S1	O42	116(4)	4_665	4_675 ?
O4	S1	O42	116(4)	2_555	4_675 ?
O1	S12	O3	105(3)	4_665	4_665 ?
O1	S12	O4	119(4)	4_665	4_665 ?
O1	S12	O42	106(4)	4_665	2_645 ?
O3	S12	O4	125(4)	4_665	4_665 ?
O3	S12	O42	95(3)	4_665	2_645 ?
O4	S12	O42	102(4)	4_665	2_645 ?
O2	S2	O32	106(3)	1_555	4_665 ?
O2	S2	O5	96(3)	1_555	1_555 ?
O2	S2	O52	134(4)	1_555	4_664 ?
O32	S2	O5	99(3)	4_665	1_555 ?
O32	S2	O52	107(4)	4_665	4_664 ?
O5	S2	O52	109(4)	1_555	4_664 ?
O22	S22	O3	103(4)	1_555	4_665 ?
O22	S22	O5	116(4)	1_555	4_664 ?
O22	S22	O52	108(4)	1_555	1_555 ?
O3	S22	O5	112(4)	4_665	4_664 ?
O3	S22	O52	114(4)	4_665	1_555 ?
O5	S22	O52	104(3)	4_664	1_555 ?
O2	S3	O22	100(3)	3_564	4_664 ?
O2	S3	O6	97(3)	3_564	1_555 ?
O2	S3	O7	126(4)	3_564	1_555 ?
O22	S3	O6	101(4)	4_664	1_555 ?
O22	S3	O7	117(5)	4_664	1_555 ?
O6	S3	O7	111(3)	1_555	1_555 ?
O1	S4	O12	109(3)	3_565	4_665 ?
O1	S4	O6	116(4)	3_565	1_555 ?
O1	S4	O7	110(4)	3_565	1_556 ?
O12	S4	O6	104(4)	4_665	1_555 ?
O12	S4	O7	110(4)	4_665	1_556 ?
O6	S4	O7	108(3)	1_555	1_556 ?

C2	C1	C22	175.0(5)	1_555	4_664	?
C1	C2	C12	175.0(5)	1_555	4_665	?
C2	C12	C22	175.0(5)	4_664	1_555	?
C1	C22	C12	175.0(5)	4_665	1_555	?

```

loop_
  _geom_torsion_atom_site_label_1
  _geom_torsion_atom_site_label_2
  _geom_torsion_atom_site_label_3
  _geom_torsion_atom_site_label_4
  _geom_torsion_site_symmetry_1
  _geom_torsion_site_symmetry_2
  _geom_torsion_site_symmetry_3
  _geom_torsion_site_symmetry_4
  _geom_torsion
  _geom_torsion_publ_flag
? ? ? ? ? ? ? ? ? ?

```

```

loop_
  _geom_hbond_atom_site_label_D
  _geom_hbond_atom_site_label_H
  _geom_hbond_atom_site_label_A
  _geom_hbond_site_symmetry_D
  _geom_hbond_site_symmetry_H
  _geom_hbond_site_symmetry_A
  _geom_hbond_distance_DH
  _geom_hbond_distance_HA
  _geom_hbond_distance_DA
  _geom_hbond_angle_DHA
  _geom_hbond_publ_flag
? ? ? ? ? ? ? ? ? ?

```

```

#=====
=====

```

```

#=====
=====

```

```

# Additional structures (last six sections and associated data_?
identifiers)
# may be added at this point.

```

```

#=====
=====

```

```

# The following lines are used to test the character set of files sent by
# network email or other means. They are not part of the CIF data set.
# abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
# !@#$%^&*()_+{}:"~<>?|\-=[];'`.,./

```