

data_veat1a

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_chemical_name_systematic

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'H3.50 B5.50 O11 Sr'

_chemical_formula_weight 326.60

loop_

_atom_type_symbol

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_atom_type_scat_dispersion_real

_atom_type_scat_dispersion_imag

_atom_type_scat_source

'O' 'O' 0.0106 0.0060

'International Tables Vol C Tables 4.2.6.8 and 6.1.1.4'

'B' 'B' 0.0013 0.0007

'International Tables Vol C Tables 4.2.6.8 and 6.1.1.4'

'Sr' 'Sr' -1.5307 3.2498

'International Tables Vol C Tables 4.2.6.8 and 6.1.1.4'

'H' 'H' 0.0000 0.0000

'International Tables Vol C Tables 4.2.6.8 and 6.1.1.4'

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'x, y, z'

'-x, -y, -z'

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_cell_length_c 20.982

_cell_angle_alpha 87.86

_cell_angle_beta 82.70

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_cell_volume 809.7

_cell_formula_units_Z 4

_cell_measurement_temperature 293(2)

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_diffrn_radiation_monochromator graphite
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_refine_special_details

;
Refinement of F² against ALL reflections. The weighted R-factor wR and
goodness of fit S are based on F², conventional R-factors R are based
on F, with F set to zero for negative F². The threshold expression of
F² > 2sigma(F²) is used only for calculating R-factors(gt) etc. and is
not relevant to the choice of reflections for refinement. R-factors based
on F² are statistically about twice as large as those based on F, and R-
factors based on ALL data will be even larger.

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_refine_ls_matrix_type full
_refine_ls_weighting_scheme calc
_refine_ls_weighting_details
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_atom_sites_solution_primary direct
_atom_sites_solution_secondary difmap
_atom_sites_solution_hydrogens geom
_refine_ls_hydrogen_treatment mixed
_refine_ls_extinction_method SHELXL
_refine_ls_extinction_coef 0.0037(3)
_refine_ls_extinction_expression
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_refine_ls_number_parameters 348
_refine_ls_number_restraints 0
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_refine_ls_goodness_of_fit_ref 0.903
_refine_ls_restrained_S_all 0.903
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_atom_site_fract_z
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_atom_site_adp_type
_atom_site_occupancy
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_atom_site_disorder_assembly
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B1 B 0.2661(3) 1.3453(3) 0.42679(10) 0.0091(4) Uani 1 1 d ...
B2 B 0.6547(4) 0.4989(4) 0.19080(11) 0.0141(5) Uani 1 1 d ...
B3 B -0.1229(4) 0.9461(4) 0.30662(11) 0.0158(5) Uani 1 1 d ...

B4 B 0.2077(3) 0.9394(3) 0.06618(10) 0.0090(4) Uani 1 1 d . . .
 B5 B -0.1371(3) 1.4311(3) 0.43125(11) 0.0097(4) Uani 1 1 d . . .
 B6 B 0.2322(4) 0.3299(4) 0.21354(12) 0.0167(5) Uani 1 1 d . . .
 B7 B -0.1080(3) 0.8550(3) 0.07135(10) 0.0103(4) Uani 1 1 d . . .
 B8 B 0.0425(3) 1.2606(3) 0.59149(10) 0.0085(4) Uani 1 1 d . . .
 B9 B 0.8030(3) 0.2545(3) 0.09105(10) 0.0091(4) Uani 1 1 d . . .
 B10 B 0.2860(3) 0.8396(3) 0.59119(10) 0.0078(4) Uani 1 1 d . . .
 B11 B 0.6242(3) 0.6757(3) 0.08682(10) 0.0083(4) Uani 1 1 d . . .
 O1 O 0.4851(2) 1.1727(2) 0.43212(7) 0.0109(3) Uani 1 1 d . . .
 O2 O 0.0996(2) 1.2731(2) 0.42602(7) 0.0107(3) Uani 1 1 d . . .
 O3 O 0.1963(2) 0.5713(2) 0.42408(7) 0.0120(3) Uani 1 1 d . . .
 O4 O 0.7694(2) 0.2861(2) 0.16202(7) 0.0139(3) Uani 1 1 d . . .
 O5 O 0.5750(2) 0.6933(2) 0.15660(7) 0.0146(3) Uani 1 1 d . . .
 OH6 O 0.6143(4) 0.5253(3) 0.25625(8) 0.0297(5) Uani 1 1 d . . .
 O7 O 0.2443(2) 0.8454(2) 0.66116(7) 0.0128(3) Uani 1 1 d . . .
 O8 O -0.0350(2) 0.7461(2) 0.33865(7) 0.0143(3) Uani 1 1 d . . .
 OH9 O -0.0855(4) 0.9280(3) 0.24113(8) 0.0314(5) Uani 1 1 d . . .
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 O12 O 0.1290(2) 0.7837(2) 0.07103(7) 0.0126(3) Uani 1 1 d . . .
 O13 O 0.3028(2) 0.6311(2) 0.56376(7) 0.0108(3) Uani 1 1 d . . .
 O14 O 0.7927(2) 0.6582(2) 0.43436(7) 0.0114(3) Uani 1 1 d . . .
 OH15 O 0.3392(3) 1.1444(3) 0.17376(8) 0.0231(4) Uani 1 1 d . . .
 OH16 O 0.2062(4) 0.3221(3) 0.27883(9) 0.0356(6) Uani 1 1 d . . .
 OH17 O 0.1559(4) 0.5254(3) 0.17982(8) 0.0295(5) Uani 1 1 d . . .
 O18 O 0.8451(2) 0.6819(2) 0.06545(7) 0.0126(3) Uani 1 1 d . . .
 O19 O 0.7353(2) 0.0824(2) 0.07612(7) 0.0125(3) Uani 1 1 d . . .
 O20 O 0.1069(2) 1.0415(2) 0.56264(7) 0.0090(3) Uani 1 1 d . . .
 O21 O 0.6523(2) 0.4646(2) 0.06122(7) 0.0102(3) Uani 1 1 d . . .
 OW22 O 0.3696(4) 0.8974(3) 0.33220(9) 0.0348(6) Uani 1 1 d . . .
 H6 H 0.656(4) 0.436(4) 0.2739(14) 0.011(6) Uiso 1 1 d . . .
 H9 H -0.155(7) 1.053(7) 0.224(2) 0.052(12) Uiso 1 1 d . . .
 H15 H 0.414(5) 1.016(5) 0.1852(15) 0.021(8) Uiso 1 1 d . . .
 H16 H 0.150(6) 0.439(6) 0.2891(18) 0.039(10) Uiso 1 1 d . . .
 H17 H 0.067(9) 0.689(9) 0.212(3) 0.10(2) Uiso 1 1 d . . .
 H221 H 0.418(7) 0.814(7) 0.307(2) 0.059(13) Uiso 1 1 d . . .
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 B1 0.0066(6) 0.0068(6) 0.0158(8) 0.0000(6) -0.0014(6) -0.0046(5)
 B2 0.0179(7) 0.0111(7) 0.0139(9) -0.0002(6) -0.0014(7) -0.0078(6)
 B3 0.0227(8) 0.0088(7) 0.0147(9) 0.0006(7) -0.0021(7) -0.0070(6)
 B4 0.0091(6) 0.0093(6) 0.0114(8) 0.0010(6) -0.0021(6) -0.0064(5)
 B5 0.0086(6) 0.0041(6) 0.0173(9) 0.0011(6) -0.0031(6) -0.0036(5)
 B6 0.0195(8) 0.0122(7) 0.0173(9) 0.0009(7) -0.0018(7) -0.0072(6)

B7 0.0095(6) 0.0100(6) 0.0127(8) -0.0003(6) -0.0007(6) -0.0058(5)
B8 0.0067(6) 0.0047(6) 0.0146(8) -0.0013(6) -0.0020(6) -0.0030(5)
B9 0.0091(6) 0.0042(6) 0.0150(8) -0.0009(6) -0.0016(6) -0.0040(5)
B10 0.0087(6) 0.0023(6) 0.0130(8) 0.0006(6) -0.0019(6) -0.0031(4)
B11 0.0055(6) 0.0054(6) 0.0136(8) -0.0001(6) -0.0010(6) -0.0024(5)
O1 0.0069(4) 0.0053(4) 0.0221(6) 0.0002(4) -0.0011(4) -0.0042(3)
O2 0.0051(4) 0.0049(4) 0.0233(6) 0.0002(4) -0.0033(4) -0.0028(3)
O3 0.0067(4) 0.0047(4) 0.0252(7) 0.0021(4) -0.0043(4) -0.0028(3)
O4 0.0188(5) 0.0073(5) 0.0137(6) 0.0005(4) -0.0014(5) -0.0052(4)
O5 0.0201(5) 0.0080(5) 0.0126(6) -0.0010(4) 0.0001(5) -0.0050(4)
OH6 0.0522(10) 0.0099(6) 0.0142(7) 0.0027(5) -0.0013(7) -0.0062(6)
O7 0.0169(5) 0.0066(5) 0.0116(6) 0.0013(4) -0.0017(5) -0.0034(4)
O8 0.0226(5) 0.0072(5) 0.0128(6) 0.0012(4) -0.0040(5) -0.0067(4)
OH9 0.0540(11) 0.0083(6) 0.0148(7) -0.0007(5) -0.0012(7) -0.0030(7)
O10 0.0071(4) 0.0081(4) 0.0212(6) -0.0003(4) -0.0011(4) -0.0040(3)
O11 0.0077(4) 0.0081(4) 0.0170(6) 0.0020(4) -0.0027(4) -0.0046(3)
O12 0.0098(4) 0.0066(4) 0.0239(7) 0.0016(4) -0.0041(5) -0.0054(3)
O13 0.0098(4) 0.0058(4) 0.0186(6) -0.0013(4) -0.0006(4) -0.0055(3)
O14 0.0079(4) 0.0058(4) 0.0223(6) 0.0006(4) -0.0015(4) -0.0049(3)
OH15 0.0331(7) 0.0103(5) 0.0201(7) -0.0021(5) -0.0009(6) -0.0067(5)
OH16 0.0593(11) 0.0107(6) 0.0204(8) -0.0008(6) 0.0016(8) -0.0063(7)
OH17 0.0526(10) 0.0128(6) 0.0145(7) 0.0023(5) -0.0030(7) -0.0099(6)
O18 0.0095(4) 0.0074(4) 0.0236(7) -0.0009(4) -0.0017(5) -0.0063(3)
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O20 0.0093(4) 0.0039(4) 0.0143(6) 0.0006(4) -0.0040(4) -0.0032(3)
O21 0.0098(4) 0.0042(4) 0.0168(6) -0.0008(4) -0.0032(4) -0.0033(3)
OW22 0.0599(11) 0.0153(7) 0.0156(8) 0.0012(6) 0.0011(8) -0.0096(7)

_geom_special_details

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All esds (except the esd in the dihedral angle between two l.s. planes) are estimated using the full covariance matrix. The cell esds are taken into account individually in the estimation of esds in distances, angles and torsion angles; correlations between esds in cell parameters are only used when they are defined by crystal symmetry. An approximate (isotropic) treatment of cell esds is used for estimating esds involving l.s. planes.

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Sr1 O19 2.5541(12) . ?
Sr1 O12 2.5640(13) . ?
Sr1 OH17 2.6808(17) . ?
Sr1 OH15 2.7008(17) 1_545 ?
Sr1 O21 2.7422(16) . ?
Sr1 O18 2.7693(11) 1_455 ?
Sr1 O11 2.7879(13) 2_665 ?
Sr1 O21 2.8226(15) 2_665 ?
Sr1 O11 2.8891(14) 1_545 ?

Sr1 O18 2.9888(16) 2_665 ?
Sr1 B11 3.047(2) 2_665 ?
Sr2 OW22 2.4362(18) . ?
Sr2 O3 2.5619(16) . ?
Sr2 O14 2.5759(12) . ?
Sr2 O2 2.5836(12) . ?
Sr2 O20 2.6964(13) . ?
Sr2 O20 2.7387(13) 2_576 ?
Sr2 O1 2.7919(15) . ?
Sr2 O13 2.8303(15) . ?
Sr2 O1 2.8661(15) 2_676 ?
Sr2 O13 2.8825(11) 2_666 ?
Sr2 B10 2.985(2) . ?
Sr2 B5 3.1670(16) 1_645 ?
B1 O3 1.358(2) 1_565 ?
B1 O1 1.358(2) . ?
B1 O2 1.412(3) . ?
B2 O5 1.362(3) . ?
B2 OH6 1.366(3) . ?
B2 O4 1.368(2) . ?
B3 OH9 1.364(3) . ?
B3 O8 1.366(3) . ?
B3 O7 1.377(2) 2_576 ?
B4 O10 1.360(2) . ?
B4 O11 1.363(2) . ?
B4 O12 1.379(3) . ?
B4 Sr1 3.150(2) 1_565 ?
B5 O13 1.348(3) 2_576 ?
B5 O14 1.364(2) 1_465 ?
B5 O2 1.389(2) . ?
B5 Sr2 3.1670(16) 1_465 ?
B6 OH15 1.347(3) 1_545 ?
B6 OH16 1.361(3) . ?
B6 OH17 1.363(3) . ?
B7 O18 1.361(3) 1_455 ?
B7 O19 1.361(2) 1_465 ?
B7 O12 1.400(2) . ?
B8 O20 1.452(2) . ?
B8 O8 1.460(3) 2_576 ?
B8 O14 1.486(3) 2_676 ?
B8 O3 1.496(2) 2_576 ?
B8 Sr2 3.185(2) 2_576 ?
B9 O21 1.447(2) . ?
B9 O10 1.472(2) 1_645 ?
B9 O4 1.485(3) . ?
B9 O19 1.491(3) . ?
B10 O7 1.457(2) . ?
B10 O20 1.466(2) . ?
B10 O13 1.486(3) . ?
B10 O1 1.498(2) 2_676 ?
B11 O5 1.455(3) . ?
B11 O21 1.455(3) . ?
B11 O11 1.479(2) . ?
B11 O18 1.498(3) . ?

B11 Sr1 3.047(2) 2_665 ?
O1 B10 1.498(2) 2_676 ?
O1 Sr2 2.8661(15) 2_676 ?
O3 B1 1.358(2) 1_545 ?
O3 B8 1.496(2) 2_576 ?
O7 B3 1.377(2) 2_576 ?
O8 B8 1.460(3) 2_576 ?
O10 B9 1.472(2) 1_465 ?
O10 Sr1 2.5483(16) 1_565 ?
O11 Sr1 2.7879(13) 2_665 ?
O11 Sr1 2.8891(14) 1_565 ?
O13 B5 1.348(3) 2_576 ?
O13 Sr2 2.8825(11) 2_666 ?
O14 B5 1.364(2) 1_645 ?
O14 B8 1.486(3) 2_676 ?
OH15 B6 1.347(3) 1_565 ?
OH15 Sr1 2.7008(17) 1_565 ?
O18 B7 1.361(3) 1_655 ?
O18 Sr1 2.7693(11) 1_655 ?
O18 Sr1 2.9888(16) 2_665 ?
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O20 Sr2 2.7387(13) 2_576 ?
O21 Sr1 2.8226(15) 2_665 ?

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O19 Sr1 OH17 97.43(6) .. ?
O12 Sr1 OH17 64.18(5) .. ?
O10 Sr1 OH15 71.44(6) 1_545 1_545 ?
O19 Sr1 OH15 69.10(5) . 1_545 ?
O12 Sr1 OH15 113.08(5) . 1_545 ?
OH17 Sr1 OH15 49.07(5) . 1_545 ?
O10 Sr1 O21 168.25(4) 1_545 . ?
O19 Sr1 O21 53.04(4) .. ?
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OH17 Sr1 O21 86.77(6) .. ?
OH15 Sr1 O21 99.82(5) 1_545 . ?
O10 Sr1 O18 69.66(4) 1_545 1_455 ?
O19 Sr1 O18 168.05(5) . 1_455 ?
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OH17 Sr1 O18 71.13(5) . 1_455 ?
OH15 Sr1 O18 104.13(5) 1_545 1_455 ?
O21 Sr1 O18 121.03(4) . 1_455 ?
O10 Sr1 O11 93.94(5) 1_545 2_665 ?

O19 Sr1 O11 70.96(4) . 2_665 ?
O12 Sr1 O11 119.67(4) . 2_665 ?
OH17 Sr1 O11 168.23(5) . 2_665 ?
OH15 Sr1 O11 124.85(4) 1_545 2_665 ?
O21 Sr1 O11 84.61(4) . 2_665 ?
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O10 Sr1 O21 114.03(5) 1_545 2_665 ?
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O12 Sr1 O21 69.77(4) . 2_665 ?
OH17 Sr1 O21 133.79(5) . 2_665 ?
OH15 Sr1 O21 172.04(5) 1_545 2_665 ?
O21 Sr1 O21 73.90(5) . 2_665 ?
O18 Sr1 O21 83.50(4) 1_455 2_665 ?
O11 Sr1 O21 50.61(4) 2_665 2_665 ?
O10 Sr1 O11 50.46(4) 1_545 1_545 ?
O19 Sr1 O11 66.51(4) . 1_545 ?
O12 Sr1 O11 170.45(4) . 1_545 ?
OH17 Sr1 O11 110.61(5) . 1_545 ?
OH15 Sr1 O11 62.86(5) 1_545 1_545 ?
O21 Sr1 O11 118.88(4) . 1_545 ?
O18 Sr1 O11 120.04(4) 1_455 1_545 ?
O11 Sr1 O11 67.15(5) 2_665 1_545 ?
O21 Sr1 O11 115.51(4) 2_665 1_545 ?
O10 Sr1 O18 66.29(5) 1_545 2_665 ?
O19 Sr1 O18 118.39(4) . 2_665 ?
O12 Sr1 O18 99.70(4) . 2_665 ?
OH17 Sr1 O18 143.44(5) . 2_665 ?
OH15 Sr1 O18 135.65(5) 1_545 2_665 ?
O21 Sr1 O18 119.71(4) . 2_665 ?
O18 Sr1 O18 73.44(4) 1_455 2_665 ?
O11 Sr1 O18 48.32(4) 2_665 2_665 ?
O21 Sr1 O18 48.30(4) 2_665 2_665 ?
O11 Sr1 O18 79.87(4) 1_545 2_665 ?
O10 Sr1 B11 92.64(6) 1_545 2_665 ?
O19 Sr1 B11 97.60(5) . 2_665 ?
O12 Sr1 B11 96.50(5) . 2_665 ?
OH17 Sr1 B11 159.90(5) . 2_665 ?
OH15 Sr1 B11 150.37(5) 1_545 2_665 ?
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O3 Sr2 O20 53.27(4) . 2_576 ?
O14 Sr2 O20 164.92(4) . 2_576 ?
O2 Sr2 O20 69.30(4) . 2_576 ?
O20 Sr2 O20 75.52(5) . 2_576 ?
OW22 Sr2 O1 76.39(7) . . ?
O3 Sr2 O1 161.40(5) . . ?
O14 Sr2 O1 68.79(4) . . ?
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O2 Sr2 O13 125.58(4) . . ?
O20 Sr2 O13 51.60(4) . . ?
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O3 Sr2 O1 120.16(5) . 2_676 ?
O14 Sr2 O1 68.34(4) . 2_676 ?
O2 Sr2 O1 105.07(4) . 2_676 ?
O20 Sr2 O1 50.44(4) . 2_676 ?
O20 Sr2 O1 123.65(4) 2_576 2_676 ?
O1 Sr2 O1 78.31(5) . 2_676 ?
O13 Sr2 O1 49.15(4) . 2_676 ?
OW22 Sr2 O13 93.78(5) . 2_666 ?
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O1 Sr2 O13 83.79(4) 2_676 2_666 ?
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O20 Sr2 B5 123.35(5) . 1_645 ?
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O5 B2 O4 122.54(19) . . ?
OH6 B2 O4 120.78(19) . . ?
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