

PLATON(V-311206)-Run for: k1a0131a

TIME: Sep 17 11:26:38 2011

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Crystal Data

Input Cell (Lattice Type: P)		Temp = 0K	Reduced Cell		(Acta Cryst.(1976), A32, 297-298)
a =	17.90400 Angstrom	alpha = 78.0800 Degree	a =	17.904	alpha = 78.08 V = 6747.1
b =	17.93700	beta = 77.9900	b =	17.937	beta = 77.99
c =	22.91100	gamma = 71.5300	c =	22.911	gamma = 71.53
V =	6747.10 Cubic-Angstrom	d(100) = 16.7800 Angstrom	Niggli Values		
		d(010) = 16.8165	320.553	321.736	524.914
Lambda(MoKa) =	0.71070 Angstrom	d(001) = 22.1506	84.881	85.355	101.741

Orthogonalization Matrices

(See e.g. J.D.Dunitz, Xray Analysis and Structure Determination of Organic Molecules, Cornell Univ. Press, 1979, P236)

(X0) (17.90400 5.68259 4.76738) (X) , (X) (0.05585 -0.01866 -0.00916) (X0) Orthogonal Axes A0, B0 and C0
 (Y0) = (0 17.01306 3.39680)*(Y) , (Y) = (0 0.05878 -0.00901)*(Y0) are defined as:
 (Z0) (0 0 22.15057) (Z) , (Z) (0 0 0.04515) (Z0) A0 // A, C0 // C*, B0 // C0 X A0

∴ Reflection Data are READ from File : spgr_hkl - (OBS-Data)

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Shell 1	26.14	36.74	44.20	50.45	55.62	60.16	63.86	66.86	69.52	71.91	8868	1000.0
Shell 2	22.48	32.59	40.59	47.29	52.61	56.39	59.76	63.16	66.07	68.88	9315	423.6
Shell 3	24.92	31.07	37.08	42.90	48.40	53.41	57.83	61.83	65.32	68.45	8412	216.9
Shell 4	28.69	33.74	38.17	42.98	47.37	51.74	56.11	59.88	63.10	66.15	7682	167.7
Shell 5	31.47	35.97	40.28	44.36	48.08	51.82	55.31	58.32	61.68	64.77	7159	151.4
Shell 6	35.17	39.46	43.04	46.69	50.34	53.73	56.55	59.68	62.58	65.43	6531	135.2
Shell 7	40.72	44.31	47.21	50.69	53.79	56.66	59.60	62.26	64.38	66.60	6272	108.7
Shell 8	45.98	49.24	52.47	55.20	58.33	61.04	63.93	66.30	68.79	70.92	6024	100.1
Shell 9	54.50	58.25	61.12	64.03	66.68	68.92	71.09	73.04	74.62	76.09	5646	89.0
Shell10	47.30	52.29	57.37	60.92	64.22	67.47	70.11	72.48	74.50	76.29	5330	112.4

z ->	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
Av3: 6	30.06	35.06	39.64	44.23	48.55	52.68	56.45	59.93	63.17	66.20
NonCent	9.52	18.13	25.92	32.97	39.35	45.12	50.34	55.07	59.34	63.21
Centros	24.81	34.53	41.87	47.38	52.05	56.14	59.72	62.89	65.72	68.33

z ->	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
Av3: 6	20.25	16.34	12.83	10.07	7.71	5.76	4.02	2.47	1.14	0.00
NonCent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Centros	17.98	20.86	21.37	20.05	17.88	15.14	11.89	8.23	4.22	0.00

Analysis of Systematic Absences

Nr	Ex. Condition	Aver(I/sig(I))		Number of Refl		I/sigI Max.F				.T/F. L Ratio
		.True.	.False.	.True.	.False.		H	K	L	
1	HKL:H+K=2N	1.48	1.52	41812	41870	64.89	3	2	0	1.0
2	HKL:H+L=2N	1.50	1.50	41831	41851	64.89	3	2	0	1.0
3	HKL:K+L=2N	1.49	1.51	41819	41863	63.91	2	3	0	1.0
4	HKL:H+K+L=2N	1.54	1.45	41863	41819	64.89	3	2	0	1.1
5	HKL:-H+K+L=3N	1.49	1.50	27864	55818	64.89	3	2	0	1.0
6	HKL:H-K+L=3N	1.48	1.51	27911	55771	64.89	3	2	0	1.0
7	OKL:K=2N	2.15	2.31	1556	1553	55.17	0	3	2	0.9
8	OKL:L=2N	2.58	1.88	1552	1557	31.06	0	3	1	1.4
9	OKL:K+L=2N	2.34	2.12	1559	1550	55.17	0	3	2	1.1
10	H0L:H=2N	2.18	2.37	1417	1415	54.73	3	0	2	0.9
11	H0L:L=2N	2.57	1.99	1403	1429	39.71	3	0	1	1.3
12	H0L:H+L=2N	2.39	2.16	1414	1418	54.73	3	0	2	1.1
13	HK0:H=2N	2.46	2.50	986	1051	64.89	3	2	0	1.0
14	HK0:K=2N	2.65	2.66	1076	1079	63.91	2	3	0	1.0
15	HK0:H+K=2N	2.54	2.59	1048	1058	64.89	3	2	0	1.0
16	H00:H=2N	3.62	8.96	24	25	40.84	3	0	0	0.4
17	OK0:K=2N	3.32	6.86	33	36	31.21	0	3	0	0.5
18	E 21z 00L:L=2N	5.24	0.41	42	45	2.14	0	0	21	12.7
19	OKL:K+L=4N	2.27	2.22	782	2327	55.17	0	3	2	1.0
20	H0L:H+L=4N	2.26	2.28	706	2126	54.73	3	0	2	1.0
21	HK0:H+K=4N	2.42	2.62	532	1574	64.89	3	2	0	0.9
22	H00:H=4N	3.42	7.29	12	37	40.84	3	0	0	0.5
23	OK0:K=4N	3.25	5.80	17	52	31.21	0	3	0	0.6
24	> 41z 00L:L=4N	4.81	2.00	23	64	16.25	0	0	6	2.4
25	E cxy HHL:L=2N	3.13	0.47	1101	1120	4.91	18	18	17	6.6
26	HHL:H=2N	1.65	1.92	1061	1160	43.26	3	3	2	0.9
27	HHL:H+L=2N	1.59	1.99	1105	1116	43.26	3	3	2	0.8
28	> HHL:2H+L=4N	3.33	1.29	547	1674	42.14	1	1	4	2.6
29	H-HL:H+L=3N	2.32	2.32	563	1139	44.98	1	-1	4	1.0
30	H-HL:-H+L=3N	2.31	2.33	573	1129	60.25	-1	1	4	1.0
31	> 61z 00L:L=6N	5.94	2.18	13	74	19.93	0	0	4	2.7
32	HH0:H=2N	2.66	2.25	25	24	12.31	7	7	0	1.2
33	H-HL:L=2N	2.40	2.25	833	869	27.61	2	-2	1	1.1
34	HHL:L=3N	1.49	1.94	718	1503	43.26	3	3	2	0.8
35	H-2HL:L=2N	2.17	1.98	531	575	32.96	-1	2	3	1.1
36	-2HHL:L=2N	2.20	1.91	512	561	25.74	6	-3	1	1.2
37	H-2HL:L=3N	1.90	2.15	346	760	49.87	-1	2	2	0.9
38	-2HHL:L=3N	1.73	2.19	334	739	47.24	2	-1	2	0.8
39	00L:L=3N	3.00	2.61	29	58	19.93	0	0	4	1.1
40	H-HL:H=2N	2.11	2.52	811	891	60.25	-1	1	4	0.8
41	HKL:H=2N	1.51	1.49	41842	41840	64.89	3	2	0	1.0
42	HKL:K=2N	1.51	1.49	41748	41934	63.91	2	3	0	1.0

43	HKL:L=2N	1.62	1.38	41879	41803	39.71	3	0	1	1.2
44	HKL:H=3N	1.50	1.50	27860	55822	63.91	2	3	0	1.0
45	HKL:K=3N	1.51	1.49	27837	55845	64.89	3	2	0	1.0
46	HKL:L=3N	1.50	1.50	27898	55784	60.25	-1	1	4	1.0

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NOTE: Reflections obscured by BeamStop Excluded from Statistics
5 0 0 etc. not included in Exception list (Fe?)

Extinction Conditions have been Marked with E when
 <I/Sig>(.F.) < 1.0 .and. Ratio(.T./.F.) > 2.5
.or. <I/Sig>(.F.) < 1.5 .and. Ratio(.T./.F.) > 5.0
.or. <I/Sig>(.F.) < 2.5 .and. Ratio(.T./.F.) > 10.0
.or. <I/Sig>(.F.) < 10.0 .and. Ratio(.T./.F.) > 20.0
.or. <I/Sig>(.F.) < 50.0 .and. Ratio(.T./.F.) >100.0

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Tentative Space Group Assignment - (Please Check Carefully)

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:: NOTE: Space Group Determination Pitfalls:
 - Twinning, Pseudo-Symmetry, Mult.Refl.

Candidate Space Groups in (1.00 0.00 0.00/ 0.00 1.00 0.00/ 0.00 0.00 1.00) Cell

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Name	#	AbsFreq	StandSet.	R(av)Perc.		N	A/C-Prob

P1	1	799	P1	:ABC	6.75	2758	41 Chiral A
P-1	2	15327	P-1	:ABC	6.75	2758	59 C

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***** N O T I C E *****

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- PLATON Reference : Spek, A.L. (2003), J.Appl.Cryst. 36, 7-13
- Output Values (Esd) may have been set to 99, 999 or 9999 to Avoid Format Overflow
- Derived Parameter SU's (= Esd's) may be Incorrect in Cases where Covariances in the Atom Parameters should have been taken into Account (e.g. Those Involving Atoms That were Refined with Constraints)
- ROUNDING, in particular of the Input Coordinate Data, may give deviating values for derived geometry parameters. However, differences should be within the associated esd-range.
- PLATON is NOT a Finished Program. The Implementation of Additional Options is Planned. Some of the More Advanced Features are Experimental and may Contain Loose Ends.
- The Communication of Glitches Encountered will be Appreciated: E-mail: a.l.spek@chem.uu.nl
- Recent versions of PLATON may be obtained by Anonymous FTP from xraysoft.chem.uu.nl
- More INFO can be found on <http://www.cryst.chem.uu.nl/platon/>

:: Input Xtal Data from File spgr.ins - Data Type SPF

:: NORMAL END of PLATON : 6 Pages on:

:: spgr.lis (ASCII, 132 Characters Wide)

:: spgr.lps (PostScript Version of .lis)

:: spgr.pdf (PDF Version of .lis)

:: SPGR.PAR on :spgr.par