

PLATON(V-311206)-Run for: test

TIME: May 31 15:55:02 2011

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Crystal Data

Input Cell (Lattice Type: P)		Temp = 0K	Reduced Cell (Acta Cryst.(1976), A32, 297-298)	
a = 10.32200 Angstrom	alpha = 118.9600 Degree		a = 10.322	alpha = 118.96 V = 4683.7
b = 22.73500	beta = 90		b = 22.735	beta = 90.00
c = 22.81100	gamma = 90		c = 22.811	gamma = 90.00
V = 4683.71 Cubic-Angstrom	d(100) = 10.3220 Angstrom		Niggli Values	
	d(010) = 19.8922		106.544	516.880 520.342
Lambda(MoKa) = 0.71070 Angstrom	d(001) = 19.9587		-251.109	0.000 0.000

Orthogonalization Matrices

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

(X0) (10.32200 0 0) (X) , (X) (0.09688 0 0) (X0) Orthogonal Axes A0, B0 and C0
 (Y0) = (0 22.73500 -11.04506)*(Y) , (Y) = (0 0.04399 0.02434)*(Y0) are defined as:
 (Z0) (0 0 19.95867) (Z) , (Z) (0 0 0.05010) (Z0) A0 // A, C0 // C*, B0 // C0 X A0

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SPGR - Determine SpaceGroup from Observed Extinctions for: test

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:: Reflection Data are READ from File : spgr.hkl - (OBS-Data)

:: TRMX = 0.00 -1.00 0.00 1.00 0.00 0.00 0.00 0.00 1.00

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Nz-Test Statistics

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Shell 1	22.01	33.28	41.07	48.56	52.65	57.56	61.27	64.98	68.38	71.48	1322	1000.0
Shell 2	22.02	31.86	39.23	44.86	50.05	54.59	58.09	61.48	64.10	67.21	1830	462.1
Shell 3	25.09	34.91	43.08	49.44	54.64	58.51	62.55	65.25	68.01	70.03	1885	269.6
Shell 4	26.20	35.56	42.01	49.40	54.70	58.48	62.58	65.26	67.94	70.13	1828	170.0
Shell 5	25.38	31.14	37.19	42.20	47.26	52.79	56.98	60.88	64.20	67.17	1718	134.7
Shell 6	31.74	37.19	42.89	47.73	51.47	56.43	60.05	63.17	66.24	69.36	1632	107.2
Shell 7	31.54	36.14	40.08	45.07	49.08	53.61	56.64	59.79	63.27	65.77	1522	90.0
Shell 8	33.69	37.32	41.96	45.73	49.56	53.19	56.76	59.85	62.68	65.50	1487	69.3
Shell 9	39.70	42.46	45.15	47.91	50.45	53.96	56.12	58.88	61.42	63.51	1340	57.3
Shell10	40.12	43.50	46.73	48.73	51.73	53.65	56.57	58.95	61.49	63.80	1301	54.7

z ->	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
Av3: 6	27.10	34.70	41.29	47.19	52.02	56.56	60.54	63.64	66.60	69.17
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

Normalized N(z) curves (63 Percent Centric)

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z ->	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
Av3: 6	16.99	15.38	13.59	11.84	9.69	7.86	6.03	3.81	1.89	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	H K L			.T/F. Ratio
		.True.	.False.	.True.	.False.					
1	HKL:H+K=2N	1.13	1.10	9482	9498	16.73	2	-3	1	1.0
2	HKL:H+L=2N	1.14	1.09	9483	9497	18.28	1	-3	2	1.0
3	HKL:K+L=2N	1.12	1.10	9519	9461	18.28	1	-3	2	1.0
4	HKL:H+K+L=2N	1.10	1.13	9464	9516	18.13	-2	0	1	1.0
5	HKL:-H+K+L=3N	1.11	1.12	6343	12637	18.28	1	-3	2	1.0
6	HKL:H-K+L=3N	1.11	1.12	6351	12629	18.13	-2	0	1	1.0
7	OKL:K=2N	1.15	1.06	460	486	14.62	0	1	2	1.1
8 E	CX OKL:L=2N	2.09	0.15	466	480	1.14	0	-5	23	14.4
9	OKL:K+L=2N	1.13	1.08	470	476	14.62	0	1	2	1.0
10	H0L:H=2N	1.49	1.10	256	263	8.64	-3	0	3	1.4
11	H0L:L=2N	1.38	1.19	264	255	18.13	-2	0	1	1.2
12	H0L:H+L=2N	1.56	1.03	255	264	18.13	-2	0	1	1.5
13	HK0:H=2N	1.58	1.52	189	206	16.20	-1	3	0	1.0
14	HK0:K=2N	1.69	1.61	209	212	16.20	-1	3	0	1.0
15	HK0:H+K=2N	1.69	1.48	202	204	15.75	2	3	0	1.1
16 E	21x H00:H=2N	7.39	0.10	7	8	0.45	9	0	0	75.8
17 >	21y OK0:K=2N	3.83	1.76	5	6	3.56	0	9	0	2.2
18 E	21z 00L:L=2N	3.11	0.13	9	12	0.83	0	0	21	24.7
19	OKL:K+L=4N	1.22	1.07	237	709	14.62	0	1	2	1.1
20	H0L:H+L=4N	1.43	1.25	128	391	18.13	-2	0	1	1.1
21	HK0:H+K=4N	1.54	1.59	100	306	16.20	-1	3	0	1.0
22	H00:H=4N	5.35	2.83	4	11	16.43	2	0	0	1.9
23 >	41y OK0:K=4N	4.75	2.25	2	9	7.02	0	14	0	2.1
24 >	41z 00L:L=4N	3.09	1.13	3	18	13.97	0	0	6	2.7
25	HHL:L=2N	1.35	1.28	213	216	14.84	-2	-2	3	1.1
26	HHL:H=2N	1.26	1.36	207	222	15.79	-3	-3	4	0.9
27	HHL:H+L=2N	1.20	1.42	213	216	15.79	-3	-3	4	0.8
28	HHL:2H+L=4N	1.32	1.31	108	321	15.79	-3	-3	4	1.0
29	H-HL:H+L=3N	1.44	1.42	165	340	12.48	-1	1	3	1.0
30	H-HL:-H+L=3N	1.49	1.40	168	337	13.39	-2	2	2	1.1
31 ?	61z 00L:L=6N	7.84	0.73	2	19	5.56	0	0	8	10.8
32 ?	HH0:H=2N	1.33	1.11	6	5	1.18	3	3	0	1.2
33	H-HL:L=2N	1.42	1.43	246	259	12.84	6	-6	3	1.0
34	HHL:L=3N	1.30	1.32	130	299	15.79	-3	-3	4	1.0
35	H-2HL:L=2N	1.44	1.94	203	203	13.85	1	-2	1	0.7
36	-2HHL:L=2N	1.11	1.23	114	121	10.24	2	-1	3	0.9
37	H-2HL:L=3N	1.66	1.71	137	269	14.77	2	-4	2	1.0
38	-2HHL:L=3N	1.11	1.20	71	164	10.84	-2	1	2	0.9
39 ?	31z 00L:L=3N	2.75	0.87	6	15	5.56	0	0	8	3.2
40	H-HL:H=2N	1.51	1.35	244	261	13.30	1	-1	2	1.1
41	HKL:H=2N	1.11	1.12	9409	9571	18.28	1	-3	2	1.0
42	HKL:K=2N	1.14	1.09	9523	9457	18.28	1	-3	2	1.0

43	HKL:L=2N	1.14	1.08	9516	9464	18.13	-2	0	1	1.1
44	HKL:H=3N	1.03	1.15	6411	12569	18.28	1	-3	2	0.9
45	HKL:K=3N	1.31	1.02	6308	12672	15.17	3	-4	2	1.3
46	HKL:L=3N	1.12	1.11	6272	12708	18.28	1	-3	2	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	16.74 206	37 Chiral A
P-1	2	15327	P-1	:ABC	16.74 206	63 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