

PLATON(V-311206)-Run for: test

TIME: Sep 30 11:57:46 2011

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Crystal Data

Input Cell (Lattice Type: P)		Temp = 0K	Reduced Cell		(Acta Cryst.(1976), A32, 297-298)
a =	12.67200 Angstrom	alpha = 90 Degree	a =	12.672	alpha = 90.00 V = 6025.7
b =	21.52900	beta = 90	b =	21.529	beta = 90.00
c =	22.54600	gamma = 101.5800	c =	22.546	gamma = 101.58
V = 6025.70 Cubic-Angstrom		d(100) = 12.4141 Angstrom	Niggli Values		
		d(010) = 21.0908	160.580	463.498	508.322
Lambda(MoKa) = 0.71073 Angstrom		d(001) = 22.5460	0.000	0.000	-54.764

Orthogonalization Matrices

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

(X0) (12.67200 -4.32164 0) (X) , (X) (0.07891 0.01617 0) (X0) Orthogonal Axes A0, B0 and C0
 (Y0) = (0 21.09078 0)*(Y) , (Y) = (0 0.04741 0)*(Y0) are defined as:
 (Z0) (0 0 22.54600) (Z) , (Z) (0 0 0.04435) (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 : latt.hkl - (OBS-Data)

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

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

Intensity Distribution

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sh	st/l	Ang	#	0.25	1.0	2.0	0 Percent	Distr. for I	gt 2.0 s(I)	100
1	0.30	1.66	549	96.0	87.6	82.7	*****			
2	0.38	1.32	573	93.9	82.5	74.0	*****			
3	0.44	1.15	540	89.1	76.7	62.6	*****			
4	0.48	1.04	503	85.7	74.0	56.3	*****			
5	0.52	0.97	480	81.0	71.2	55.2	*****			
6	0.55	0.91	464	78.7	64.4	47.4	*****			
7	0.58	0.87	442	78.1	64.0	41.4	*****			
8	0.60	0.83	419	70.6	59.2	35.1	*****			
9	0.63	0.80	385	71.2	49.6	24.9	*****			
10	0.65	0.77	393	65.9	45.8	24.9	*****			
						I		I		I
						0%		50%		100%

Analysis of General Reflections for Bravais Centering

Nr	Ex. Condition	Aver(I/sig(I))		Number of Refl		I/sigI Max.F	.T/F.		
		.True.	.False.	.True.	.False.		H	K	L Ratio
1	HKL:H+K=2N	3.90	4.03	2502	2518	111.39	2	-1	-2 1.0
2	HKL:H+L=2N	4.18	3.76	2516	2504	96.39	3	-2	-2 1.1
3	HKL:K+L=2N	3.92	4.02	2510	2510	111.39	2	-1	-2 1.0
4	HKL:H+K+L=2N	3.96	3.98	2515	2505	111.39	2	-1	-2 1.0
5	HKL:-H+K+L=3N	4.05	3.93	1676	3344	111.39	2	-1	-2 1.0
6	HKL:H-K+L=3N	3.95	3.98	1667	3353	111.39	2	-1	-2 1.0
41	HKL:H=2N	4.07	3.87	2527	2493	99.03	1	-4	-1 1.1
42	HKL:K=2N	4.09	3.85	2521	2499	111.39	2	-1	-2 1.1
43	HKL:L=2N	4.03	3.91	2509	2511	99.03	1	-4	-1 1.0
44	HKL:H=3N	4.06	3.92	1680	3340	111.39	2	-1	-2 1.0
45	HKL:K=3N	3.86	4.02	1673	3347	111.39	2	-1	-2 1.0
46	HKL:L=3N	3.77	4.07	1683	3337	111.39	2	-1	-2 0.9
47	-HKL, H-KL=3N	4.02	3.91	2779	2241	111.39	2	-1	-2 1.0
48	E tw2 -HKL:K2, KL4P2	3.97	0.00	5020	0	0.00	0	0	0 99.0
49	-HKL:H2, HL4P2	4.00	3.53	4697	323	39.88	2	-16	0 1.1
50	-HKL:H2, HK4P2	3.99	3.32	4865	155	36.26	4	-2	-3 1.2
51	HKL:H+2L=3N	3.78	4.06	1663	3357	111.39	2	-1	-2 0.9

Possible 2-Fold Axes - 2-Axis Crit = 0.20, Exp. Error = 0.20 Deg., LATT = P

Nr	D	Rows			Products			Angle Between Two Direct Axes								
		N	Direct	Recip	Dot	Delta		1	2	3	4	5	6	7	8	9
1	22.546	0	0	0	1	0	0	1	1	0.000		0.				

==== Transformation Matrix: Input (a,b,c) to Conventional Cell(a', b', c') ====

(a') (-1.000 0.000 0.000) (a) (x') (-1.000 0.000 0.000) (x) Metrically
 (b') = (0.000 0.000-1.000) (b). (y') = (0.000 0.000-1.000) (y) Monoclinic
 (c') (0.000-1.000 0.000) (c) (z') (0.000-1.000 0.000) (z) FOM: 0.000

	Latt	a	b	c	Alpha	Beta	Gamma	Volume
Input Cell	P	12.672	21.529	22.546	90.00	90.00	101.58	6025.70
Reduc Cell	P	12.672	21.529	22.546	90.00	90.00	101.58	6025.71
Conv. Cell	mP	12.672	22.546	21.529	90.00	101.58	90.00	6025.70

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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 latt.ins - Data Type SPF

:: NORMAL END of PLATON : 5 Pages on:
:: latt.lis (ASCII, 132 Characters Wide)
:: latt.lps (PostScript Version of .lis)
:: latt.pdf (PDF Version of .lis)

:: SPGR.PAR on :latt.par