

PLATON(V-311206)-Run for: xray025

TIME: Apr 27 13:54:18 2010

(C) 1980-2007 A.L.Spek

Crystal Data

Input Cell (Lattice Type: P)		Temp = 0K	Reduced Cell		(Acta Cryst.(1976), A32, 297-298)
a =	8.79600 Angstrom	alpha = 90 Degree	a =	8.796	alpha = 90.00 V = 2550.3
b =	23.08000	beta = 94.1400	b =	12.595	beta = 90.00
c =	12.59500	gamma = 90	c =	23.080	gamma = 94.14
V =	2550.26 Cubic-Angstrom	d(100) = 8.7730 Angstrom	Niggli Values		
		d(010) = 23.0800	77.370	158.634	532.686
Lambda(MoKa) =	0.71073 Angstrom	d(001) = 12.5621	0.000	0.000	-7.998

Orthogonalization Matrices

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

(X0) (8.79600 0 -0.90928) (X) , (X) (0.11369 0 0.00823) (X0) Orthogonal Axes A0, B0 and C0
 (Y0) = (0 23.08000 0)*(Y) , (Y) = (0 0.04333 0)*(Y0) are defined as:
 (Z0) (0 0 12.56214) (Z) , (Z) (0 0 0.07960) (Z0) A0 // A, C0 // C*, B0 // C0 X A0

SPGR - Determine SpaceGroup from Observed Extinctions for: xray025

:: 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

:: 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

Intensity Distribution

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	2208	100.0	100.0	100.0	*****			
2	0.38	1.32	2140	99.8	99.4	99.0	*****			
3	0.44	1.15	1950	98.4	97.0	95.1	*****			
4	0.48	1.04	1748	97.1	92.4	86.7	*****			
5	0.52	0.97	1581	95.6	89.9	81.8	*****			
6	0.55	0.91	1556	93.1	83.5	68.2	*****			
7	0.58	0.87	1411	88.5	75.5	59.5	*****			
8	0.60	0.83	1263	83.4	68.0	48.2	*****			
9	0.63	0.80	1278	78.0	56.4	35.9	*****			
10	0.65	0.77	1191	75.2	53.4	30.1	*****			
					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.			Ratio
		.True.	.False.	.True.	.False.		H	K	L	
1	E C HKL:H+K=2N	7.09	0.00	17246	0	0.00	0	0	0	99.0
2	HKL:H+L=2N	7.06	7.11	8643	8603	20.28	-1	3	-2	1.0
3	HKL:K+L=2N	7.06	7.11	8643	8603	20.28	-1	3	-2	1.0
4	HKL:H+K+L=2N	7.09	7.08	8626	8620	19.09	2	-4	-1	1.0
5	HKL:-H+K+L=3N	7.06	7.10	5765	11481	20.28	-1	3	-2	1.0
6	HKL:H-K+L=3N	7.09	7.08	5766	11480	19.46	1	1	2	1.0
41	HKL:H=2N	7.06	7.11	8599	8647	20.28	-1	3	-2	1.0
42	HKL:K=2N	7.06	7.11	8599	8647	20.28	-1	3	-2	1.0
43	HKL:L=2N	7.09	7.08	8626	8620	19.09	2	-4	-1	1.0
44	HKL:H=3N	7.36	6.95	5685	11561	20.28	-1	3	-2	1.1
45	HKL:K=3N	7.07	7.09	5763	11483	19.46	1	1	2	1.0
46	HKL:L=3N	6.99	7.13	5775	11471	20.28	-1	3	-2	1.0
47	-HKL, H-KL=3N	7.10	7.06	9592	7654	19.46	1	1	2	1.0
48	-HKL:K2,KL4P2	7.08	7.10	16185	1061	17.65	-2	4	2	1.0
49	-HKL:H2,HL4P2	7.08	7.18	16114	1132	18.54	-2	0	4	1.0
50	-HKL:H2,HK4P2	7.12	6.85	15182	2064	18.64	0	6	-2	1.0
51	HKL:H+2L=3N	7.05	7.10	5746	11500	20.28	-1	3	-2	1.0

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

Nr	D	Rows			Products			Angle Between Two Direct Axes								
		N Direct	Recip	Dot	Delta	1	2	3	4	5	6	7	8	9		
1	23.080	0	1-2	0	0 1 0	2	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 1.000 0.000) (b). (y') = (0.000 1.000 0.000) (y) Monoclinic
(c') (0.000 0.000 1.000) (c) (z') (0.000 0.000 1.000) (z) FOM: 0.000

	Latt	a	b	c	Alpha	Beta	Gamma	Volume
Input Cell	C	8.796	23.080	12.595	90.00	94.14	90.00	2550.26
Reduc Cell	P	8.796	12.350	12.595	88.53	85.86	69.14	1275.13
Conv. Cell	mC	8.796	23.080	12.595	90.00	94.14	90.00	2550.26

=====

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

=====

- 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