

PDF#41-1432: QM=Common(+); d=Diffractometer; l=(Unknown)													PDF Card
Pseudobrookite, syn Fe2TiO5													
Radiation=CuKa1				Lambda=1.5406				Filter=					
Calibration=				2T=17.760-79.819				l/lc(RIR)=					
Ref: Level-1 PDF													
Orthorhombic, Bbmm(63)								Z=4		mp=			
CELL: 9.7965 x 9.9805 x 3.7301 <90.0 x 90.0 x 90.0>								P.S=					
Density(c)=4.39		Density(m)=		Mwt=		Vol=364.7							
Ref: Ibid.													
Strong Lines: 3.49/X 2.75/8 4.90/4 2.46/2 1.87/2 1.97/2 2.41/2 1.54/2													
65 Lines, Wavelength to Compute Theta = 1.54056?(Cu), l%-Type = (Unknown)													
#	d(?)	l(f)	( h k l )	2-Theta	Theta	1/(2d)	#	d(?)	l(f)	( h k l )	2-Theta	Theta	1/(2d)
1	4.9900	13.0	( 0 2 0 )	17.760	8.880	0.1002	34	1.5441	18.0	( 2 3 2 )	59.848	29.924	0.3238
2	4.9010	42.0	( 2 0 0 )	18.085	9.043	0.1020	35	1.5387	17.0	( 5 3 1 )	60.080	30.040	0.3249
3	3.4860	100.0	( 1 0 1 )	25.531	12.766	0.1434	36	1.5013	3.0	( 1 6 1 )	61.738	30.869	0.3330
4	3.2940	6.0	( 1 1 1 )	27.047	13.523	0.1518	37	1.4939	1.0	( 0 4 2 )	62.077	31.039	0.3347
5	2.8590	4.0	( 1 2 1 )	31.260	15.630	0.1749	38	1.4838	3.0	( 4 0 2 )	62.547	31.274	0.3370
6	2.7520	77.0	( 2 3 0 )	32.508	16.254	0.1817	39	1.4678	1.0	( 4 1 2 )	63.308	31.654	0.3406
7	2.4960	1.0	( 0 4 0 )	35.950	17.975	0.2003	40	1.4657	1.0	( 6 3 0 )	63.409	31.704	0.3411
8	2.4580	23.0	( 3 0 1 )	36.526	18.263	0.2034	41	1.4290	2.0	( 2 4 2 )	65.236	32.618	0.3499
9	2.4510	16.0	( 4 0 0 )	36.634	18.317	0.2040	42	1.4243	5.0	( 5 4 1 )	65.478	32.739	0.3510
10	2.4070	22.0	( 1 3 1 )	37.328	18.664	0.2077	43	1.4224	5.0	( 4 2 2 )	65.576	32.788	0.3515
11	2.3860	1.0	( 3 1 1 )	37.669	18.834	0.2096	44	1.3775	4.0	( 3 6 1 )	67.999	34.000	0.3630
12	2.2240	10.0	( 2 4 0 )	40.528	20.264	0.2248	45	1.3761	4.0	( 4 6 0 )	68.078	34.039	0.3633
13	2.2040	3.0	( 3 2 1 )	40.912	20.456	0.2269	46	1.3689	1.0	( 2 7 0 )	68.485	34.243	0.3653
14	2.1990	12.0	( 4 2 0 )	41.010	20.505	0.2274	47	1.3662	1.0	( 6 4 0 )	68.640	34.320	0.3660
15	2.0290	1.0	( 1 4 1 )	44.622	22.311	0.2464	48	1.3552	7.0	( 4 3 2 )	69.276	34.638	0.3689
16	1.9766	14.0	( 3 3 1 )	45.872	22.936	0.2530	49	1.3194	2.0	( 1 7 1 )	71.438	35.719	0.3790
17	1.9733	22.0	( 4 3 0 )	45.953	22.976	0.2534	50	1.3127	3.0	( 2 5 2 )	71.859	35.930	0.3809
18	1.8657	23.0	( 0 0 2 )	48.770	24.385	0.2680	51	1.3104	3.0	( 7 0 1 )	72.005	36.002	0.3816
19	1.8480	7.0	( 2 5 0 )	49.268	24.634	0.2706	52	1.3096	2.0	( 5 5 1 )	72.056	36.028	0.3818
20	1.7516	8.0	( 3 4 1 )	52.177	26.088	0.2855	53	1.2991	3.0	( 7 1 1 )	72.731	36.365	0.3849
21	1.7473	12.0	( 4 4 0 )	52.315	26.157	0.2862	54	1.2672	3.0	( 7 2 1 )	74.870	37.435	0.3946
22	1.7430	4.0	( 2 0 2 )	52.454	26.227	0.2869	55	1.2636	3.0	( 6 5 0 )	75.120	37.560	0.3957
23	1.7335	2.0	( 5 0 1 )	52.763	26.382	0.2884	56	1.2477	1.0	( 0 8 0 )	76.247	38.124	0.4007
24	1.7092	1.0	( 5 1 1 )	53.573	26.786	0.2925	57	1.2412	4.0	( 0 6 2 )	76.719	38.359	0.4028
25	1.6634	10.0	( 0 6 0 )	55.171	27.586	0.3006	58	1.2333	2.0	( 1 0 3 )	77.301	38.651	0.4054
26	1.6455	2.0	( 2 2 2 )	55.824	27.912	0.3039	59	1.2323	3.0	( 4 7 0 )	77.375	38.688	0.4057
27	1.6383	11.0	( 5 2 1 )	56.091	28.045	0.3052	60	1.2284	1.0	( 6 0 2 )	77.667	38.834	0.4070
28	1.6327	1.0	( 6 0 0 )	56.300	28.150	0.3062	61	1.2244	2.0	( 8 0 0 )	77.969	38.984	0.4084
29	1.6112	3.0	( 6 1 0 )	57.120	28.560	0.3103	62	1.2190	2.0	( 6 1 2 )	78.380	39.190	0.4102
30	1.5752	2.0	( 2 6 0 )	58.550	29.275	0.3174	63	1.2154	1.0	( 8 1 0 )	78.657	39.329	0.4114
31	1.5521	8.0	( 6 2 0 )	59.509	29.754	0.3221	64	1.2034	1.0	( 2 6 2 )	79.597	39.798	0.4155
32	1.5493	3.0	( 3 5 1 )	59.627	29.814	0.3227	65	1.2006	1.0	( 5 6 1 )	79.819	39.910	0.4165
33	1.5474	3.0	( 4 5 0 )	59.708	29.854	0.3231							