

PDF#33-0664: QM=Common(+); d=Diffractometer; l=(Unknown)													PDF Card
Hematite, syn Fe2O3													
Radiation=CuKa1					Lambda=1.5406				Filter=				
Calibration=					2T=24.138-147.961				I/Ic(RIR)=2.4				
Ref: Level-1 PDF													
Hexagonal, R-3c(167)								Z=6		mp=			
CELL: 5.0356 x 5.0356 x 13.7489 <90.0 x 90.0 x 120.0>								P.S=					
Density(c)=5.26		Density(m)=		Mwt=		Vol=301.9							
Ref: Ibid.													
Strong Lines: 2.70/X 2.52/7 1.69/5 1.84/4 3.68/3 1.49/3 1.45/3 2.21/2													
45 Lines, Wavelength to Compute Theta = 1.54056?(Cu), I%-Type = (Unknown)													
#	d(?)	I(f)	(h k l)	2-Theta	Theta	1/(2d)	#	d(?)	I(f)	(h k l)	2-Theta	Theta	1/(2d)
1	3.6840	30.0	(0 1 2)	24.138	12.069	0.1357	24	1.1035	7.0	(2 2 6)	88.539	44.269	0.4531
2	2.7000	100.0	(1 0 4)	33.152	16.576	0.1852	25	1.0768	2.0	(0 4 2)	91.342	45.671	0.4643
3	2.5190	70.0	(1 1 0)	35.611	17.806	0.1985	26	1.0557	7.0	(2 1 10)	93.712	46.856	0.4736
4	2.2920	3.0	(0 0 6)	39.276	19.638	0.2182	27	1.0428	1.0	(1 1 12)	95.236	47.618	0.4795
5	2.2070	20.0	(1 1 3)	40.854	20.427	0.2266	28	1.0393	3.0	(4 0 4)	95.659	47.830	0.4811
6	2.0779	3.0	(2 0 2)	43.518	21.759	0.2406	29	0.9892	4.0	(3 1 8)	102.282	51.141	0.5055
7	1.8406	40.0	(0 2 4)	49.479	24.740	0.2717	30	0.9715	1.0	(2 2 9)	104.910	52.455	0.5147
8	1.6941	45.0	(1 1 6)	54.089	27.045	0.2951	31	0.9606	5.0	(3 2 4)	106.619	53.309	0.5205
9	1.6367	1.0	(2 1 1)	56.150	28.075	0.3055	32	0.9581	4.0	(0 1 14)	107.021	53.511	0.5219
10	1.6033	5.0	(1 2 2)	57.428	28.714	0.3119	33	0.9516	5.0	(4 1 0)	108.086	54.043	0.5254
11	1.5992	10.0	(0 1 8)	57.589	28.794	0.3127	34	0.9318	2.0	(4 1 3)	111.514	55.757	0.5366
12	1.4859	30.0	(2 1 4)	62.449	31.225	0.3365	35	0.9206	2.0	(0 4 8)	113.590	56.795	0.5431
13	1.4538	30.0	(3 0 0)	63.989	31.995	0.3439	36	0.9081	5.0	(1 3 10)	116.040	58.020	0.5506
14	1.4138	1.0	(1 2 5)	66.026	33.013	0.3537	37	0.8998	1.0	(3 0 12)	117.753	58.877	0.5557
15	1.3497	3.0	(2 0 8)	69.599	34.799	0.3705	38	0.8954	3.0	(2 0 14)	118.692	59.346	0.5584
16	1.3115	10.0	(1 0 10)	71.935	35.968	0.3812	39	0.8789	6.0	(4 1 6)	122.425	61.213	0.5689
17	1.3064	6.0	(1 1 9)	72.260	36.130	0.3827	40	0.8648	1.0	(2 3 8)	125.923	62.962	0.5782
18	1.2592	8.0	(2 2 0)	75.428	37.714	0.3971	41	0.8543	3.0	(4 0 10)	128.752	64.376	0.5853
19	1.2276	4.0	(3 0 6)	77.727	38.864	0.4073	42	0.8436	5.0	(1 2 14)	131.871	65.935	0.5927
20	1.2141	2.0	(2 2 3)	78.758	39.379	0.4118	43	0.8392	3.0	(3 3 0)	133.234	66.617	0.5958
21	1.1896	5.0	(1 2 8)	80.709	40.354	0.4203	44	0.8089	4.0	(3 2 10)	144.448	72.224	0.6181
22	1.1632	5.0	(0 2 10)	82.937	41.468	0.4298	45	0.8014	4.0	(2 4 4)	147.961	73.981	0.6239
23	1.1411	7.0	(1 3 4)	84.913	42.457	0.4382							