

48-0470

Wavelength= 1.936042

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YCr_{0.9}Co_{0.103}

Chromium Cobalt Yttrium Oxide

Rad.: FeK α 1 λ : 1.936042 Filter: Graph Mono d-sp:

Cut off: 5.6 Int.:

l/lcor.:

Ref: Basceri, C., Tas, A., Timucin, M., Powder Diffraction, 10, 40 (1995)

Sys.: Orthorhombic

S.G.: Pmnb (62)

a: 7.5202(4) b: 5.5140(3) c: 5.2349(3) A: 1.3638 C: 0.9494

 α : β : γ : Z: 4 mp:

Ref: Ibid.

Dx: 5.801 Dm: 5.801 SS/FOM: F₃₀ - 127(.0066, 36)Prepared at 1400 C for 10 hours in air. Perovskite, Ca O₃ Ti type.

C.D. Cell: a=5.514, b=7.520, c=5.235, a/b=0.7332.

c/b=0.6961, S.G.=Pnma(62). Silicon used as an external stand.

PSC: α P20. Mwt: 189.59. Volume[CD]: 217.07.

d(A)	Int	h	k	l	d(A)	Int	h	k	l
4.2951	2	1	0	1	1.5746	8	2	3	1
3.7970	6	0	1	1	1.5533	9	4	2	0
3.7609	5	2	0	0	1.5268	11	4	0	2
3.3893	23	1	1	1	1.5213	19	2	1	3
2.7570	17	0	2	0	1.5130	4	3	2	2
2.6714	100	2	1	1	1.4746	1	0	2	3
2.6174	20	0	0	2	1.4319	1	3	0	3
2.5885	11	1	2	0	1.4259	7	3	3	1
2.3646	1	0	1	2	1.3983	1	5	1	1
2.3201	1	1	2	1					
2.2563	8	1	1	2					
2.2237	7	2	2	0					
2.1488	9	2	0	2					
2.0922	9	3	1	1					
2.0468	3	2	2	1					
2.0014	1	2	1	2					
1.8985	19	0	2	2					
1.8803	18	4	0	0					
1.8547	7	3	2	0					
1.8406	12	1	2	2					
1.7342	2	0	3	1					
1.7202	2	3	1	2					
1.6898	16	1	3	1					
1.6637	1	0	1	3					
1.6241	3	1	1	3					