

Y0.9Ca0.1Cr0.9Co0.103

Calcium Chromium Cobalt Yttrium Oxide

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

Cut off: 5.6 Int.:

I/lor.:

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

Sys.: Orthorhombic

S.G.: Pnmb (62)

a: 7.5158(7) b: 5.4996(4) c: 5.2411(4) A: 1.3666 C: 0.9530

 α : β : γ : Z: 4 mp:

Ref: Ibid.

Dx: 5.663 Dm: 5.663 SS/FOM: F₃₀ - 97(.0089 . 35)Prepared at 1400 C for 10 hours in air. Perovskite, Ca O₃ Ti type.

C.D. Cell: a=5.500, b=7.516, c=5.241, a/b=0.7317.

c/b=0.6973, S.G.=Pnma(62). Silicon used as an external stand.

PSC: oP20. Mwt: 184.71. Volume[CD]: 216.64.

| d(A) | Int | h | k | l | d(A) | Int | h | k | l |
|--------|-----|---|---|---|--------|-----|---|---|---|
| 4.30 | 2 | 1 | 0 | 1 | 1.6256 | 3 | 1 | 1 | 3 |
| 3.7945 | 5 | 0 | 1 | 1 | 1.5719 | 6 | 2 | 3 | 1 |
| 3.7572 | 4 | 2 | 0 | 0 | 1.5514 | 9 | 4 | 2 | 0 |
| 3.3873 | 21 | 1 | 1 | 1 | 1.5268 | 11 | 4 | 0 | 2 |
| 2.7493 | 23 | 0 | 2 | 0 | 1.5223 | 31 | 2 | 1 | 3 |
| 2.6702 | 100 | 2 | 1 | 1 | 1.5122 | 4 | 3 | 2 | 2 |
| 2.6197 | 31 | 0 | 0 | 2 | 1.4236 | 7 | 3 | 3 | 1 |
| 2.5813 | 9 | 1 | 2 | 0 | 1.3746 | 2 | 0 | 4 | 0 |
| 2.3660 | 2 | 0 | 1 | 2 | | | | | |
| 2.3179 | 1 | 1 | 2 | 1 | | | | | |
| 2.2601 | 4 | 3 | 0 | 1 | | | | | |
| 2.2576 | 8 | 1 | 1 | 2 | | | | | |
| 2.2193 | 7 | 2 | 2 | 0 | | | | | |
| 2.1495 | 10 | 2 | 0 | 2 | | | | | |
| 2.0904 | 9 | 3 | 1 | 1 | | | | | |
| 2.0441 | 3 | 2 | 2 | 1 | | | | | |
| 2.0020 | 2 | 2 | 1 | 2 | | | | | |
| 1.8971 | 23 | 0 | 2 | 2 | | | | | |
| 1.8789 | 16 | 4 | 0 | 0 | | | | | |
| 1.8518 | 6 | 3 | 2 | 0 | | | | | |
| 1.8396 | 11 | 1 | 2 | 2 | | | | | |
| 1.7306 | 2 | 0 | 3 | 1 | | | | | |
| 1.7197 | 2 | 3 | 1 | 2 | | | | | |
| 1.6864 | 12 | 1 | 3 | 1 | | | | | |
| 1.6645 | 1 | 0 | 1 | 3 | | | | | |

