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|-----------------------------------|--------|--------------------------|
| $\text{K}_4\text{Sb}_2\text{O}_3$ | $hP18$ | $(186) P6_3mc - cb^4a^2$ |
|-----------------------------------|--------|--------------------------|

$\text{K}_4\text{Sb}_2\text{O}_3$ [1]

Structural features: $\text{Sb}(\text{SbO}_3)$ tetrahedra in a Mg-type (h.c.p.) arrangement, embedded in a K matrix.

Tillard M. et al. (1999) [1]

$\text{K}_4\text{O}_3\text{Sb}_2$

$a = 0.6142$, $c = 1.4395$ nm, $c/a = 2.344$, $V = 0.4703$ nm³, $Z = 2$

| site | Wyck. | sym. | x | y | z | occ. | atomic environment |
|------|-------|-------|---------------|---------------|--------|------|--|
| O1 | $6c$ | $.m.$ | 0.8218 | 0.1778 | 0.1323 | | single atom Sb |
| K2 | $2b$ | $3m.$ | $\frac{1}{3}$ | $\frac{2}{3}$ | 0.16 | | non-coplanar hexagon O ₆ |
| Sb3 | $2b$ | $3m.$ | $\frac{1}{3}$ | $\frac{2}{3}$ | 0.4004 | | single atom Sb |
| Sb4 | $2b$ | $3m.$ | $\frac{1}{3}$ | $\frac{2}{3}$ | 0.5951 | | non-coplanar triangle O ₃ |
| K5 | $2b$ | $3m.$ | $\frac{1}{3}$ | $\frac{2}{3}$ | 0.839 | | 7-capped pentagonal prism O ₃ Sb ₄ K ₁₀ |
| K6 | $2a$ | $3m.$ | 0 | 0 | 0.0 | | non-coplanar triangle O ₃ |
| K7 | $2a$ | $3m.$ | 0 | 0 | 0.244 | | non-coplanar triangle O ₃ |

Transformation from published data: origin shift 0 0 0.247

Experimental: single crystal, diffractometer, X-rays, R = 0.048, T = 295 K

References: [1] Tillard M., Monconduit L., Traber B., Belin C. (1999), Acta Crystallogr. C 55, 833-835.