Cs_7O	*hP*24	(187) *P*-6*m*2 – nk^2j^3ha

Cs_7O [1]
Structural features: One $Cs_{11}O_3$ unit (three face-sharing OCs_6 octahedra) for ten additional Cs atoms.

Simon A. (1976) [1]
Cs_7O
a = 1.6393, c = 0.9193 nm, c/a = 0.561, V = 2.1395 nm^3, Z = 3

site	Wyck.	sym.	x	y	z	occ.	atomic environment
Cs1	6*n*	.*m*.	0.18759	0.81241	0.21832		single atom O
Cs2	3*k*	*mm*2	0.55070	0.44930	$^1/_2$		14-vertex polyhedron Cs_{14}
Cs3	3*k*	*mm*2	0.88824	0.11176	$^1/_2$		icosahedron Cs_{12}
O4	3*j*	*mm*2	0.25366	0.74634	0		octahedron Cs_6
Cs5	3*j*	*mm*2	0.44790	0.55210	0		non-colinear O_2
Cs6	3*j*	*mm*2	0.78396	0.21604	0		15-vertex Frank-Kasper Cs_{15}
Cs7	2*h*	3*m*.	$^1/_3$	$^2/_3$	0.20144		non-coplanar triangle O_3
Cs8	1*a*	-6*m*2	0	0	0		15-vertex Frank-Kasper Cs_{15}

Transformation from published data: -*x*,-*y*,-*z*
Experimental: single crystal, diffractometer, X-rays, R = 0.046, T = 253 K

Remarks: Cell parameters determined at 273 K.

References: [1] Simon A. (1976), Z. Anorg. Allg. Chem. 422, 208-218.