Mg_2Zn_{11}	*cP*39	(200) *Pm*-3 – jihgfa

Mg_2Zn_{11} [1], Strukturbericht notation $D8_c$
Structural features: $ZnZn_{12}$ icosahedra and empty Zn_6 octahedra in a CsCl-type arrangement, separated by additional Zn and Mg atoms.

Samson S. (1949) [1]
Mg_2Zn_{11}
a = 0.8552 nm, V = 0.6255 nm^3, Z = 3

site	Wyck.	sym.	x	y	z	occ.	atomic environment
Zn1	12*j*	*m*..	0	0.157	0.257		icosahedron Zn_9Mg_3
Zn2	8*i*	.3.	0.278	0.278	0.278		icosahedron Zn_9Mg_3
Zn3	6*h*	*mm*2..	0.265	$^1/_2$	$^1/_2$		10-vertex polyhedron Zn_{10}
Zn4	6*g*	*mm*2..	0.340	$^1/_2$	0		pseudo Frank-Kasper Zn_9Mg_4
Mg5	6*f*	*mm*2..	0.18	0	$^1/_2$		7-capped pentagonal prism $Zn_{16}Mg$
Zn6	1*a*	*m*-3.	0	0	0		icosahedron Zn_{12}

Transformation from published data: *y*,*x*,-*z*; origin shift $^1/_2$ $^1/_2$ $^1/_2$
Experimental: single crystal, Weissenberg photographs, X-rays

References: [1] Samson S. (1949), Acta Chem. Scand. 3, 835-843.