

Space group (208) $P4_232$ 208
 $cP64$

$\text{Cs}_2\text{ZnFe}[\text{CN}]_6$	$cP64$	(208) $P4_232 - m^2dcba$
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 $\text{Cs}_2\text{Zn}[\text{Fe}(\text{CN})_6]$ [1]

Structural features: FeC_6 and ZnN_6 octahedra (in a NaCl-type arrangement) are interconnected via C-N bonds (cyanide units, non-linear Fe-C-N-Zn segments) to form a 3D-framework; Cs in voids.

Kuznetsov V.G. et al. (1970) [1]

$\text{C}_6\text{Cs}_2\text{FeN}_6\text{Zn}$

$a = 1.037 \text{ nm}$, $V = 1.1152 \text{ nm}^3$, $Z = 4$

site	Wyck.	sym.	x	y	z	occ.	atomic environment
C1	$24m$	1	0.057	0.25	0.23		single atom N
N2	$24m$	1	0.235	0.25	0.548		single atom C
Cs3	$6d$	222..	0	$\frac{1}{2}$	$\frac{1}{2}$		cuboctahedron C_4N_8
Zn4	$4c$	.32	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$		octahedron N_6
Fe5	$4b$	.32	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$		octahedron C_6
Cs6	$2a$	23.	0	0	0		cuboctahedron C_{12}

Experimental: powder, Debye-Scherrer film, X-rays

Remarks: The same data are quoted in [2].

References: [1] Kuznetsov V.G., Popova Z.V., Seifer G.B. (1970), Russ. J. Inorg. Chem. 15, 1084-1088.

[2] Kuznetsov V.G., Maksimova S.I. (1973), J. Struct. Chem. (Engl. Transl.) 14, 794-796.

208
 $cP64$

$\text{Na}_{11}\text{U}_5\text{O}_{16}$	$cP64$	(208) $P4_232 - mhfedcba$
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 $\text{Na}_{11}\text{U}_5\text{O}_{16}$ [1]

Structural features: Close-packed O layers in c stacking; Na and U in octahedral voids. Substitution derivative of NaCl.

Bartram S.F., Fryxell R.E. (1970) [1]

$\text{Na}_{11}\text{O}_{16}\text{U}_5$

$a = 0.9543 \text{ nm}$, $V = 0.8691 \text{ nm}^3$, $Z = 2$

site	Wyck.	sym.	x	y	z	occ.	atomic environment
O1	$24m$	1	0.0	0.25	0.25		octahedron Na_4U_2
Na2	$12h$	2..	0.25	0	0		octahedron O_6
U3	$6f$	2.22	$\frac{1}{4}$	$\frac{1}{2}$	0		octahedron O_6
Na4	$6e$	2.22	$\frac{1}{4}$	0	$\frac{1}{2}$		octahedron O_6
O5	$6d$	222..	0	$\frac{1}{2}$	$\frac{1}{2}$		octahedron Na_4U_2
Na6	$4c$	.32	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$		octahedron O_6
U7	$4b$	.32	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$		octahedron O_6
O8	$2a$	23.	0	0	0		octahedron Na_6

Experimental: powder, diffractometer, X-rays

References: [1] Bartram S.F., Fryxell R.E. (1970), J. Inorg. Nucl. Chem. 32, 3701-3706.