$Ce_9Ni_{26}P_{12}$	*hP*47	(187) *P*-6*m*2 – $ml^2k^5j^4fa$

$Ce_9Ni_{26}P_{12}$ [1]
Structural features: Infinite columns of base-linked $P(Ce_2Ni_4)Ni_3$, $P(Ce_4Ni_2)Ni_3$ and $NiCe_6Ni_3$ tricapped trigonal prisms share atoms to form a 3D-framework with two kinds of AlB_2-type column (6 and 10 prisms in the cross-section, respectively) and channels of hexagonal cross-section parallel to [001].

Babizhets'kii V.S. et al. (1992) [1]
$Ce_9Ni_{26}P_{12}$
a = 1.426, c = 0.3863 nm, c/a = 0.271, V = 0.6803 nm^3, Z = 1

site	Wyck.	sym.	x	y	z	occ.	atomic environment
Ni1	6*m*	*m*..	0.37633	0.04667	$^1/_2$		cuboctahedron $P_4Ni_4Ce_4$
P2	6*l*	*m*..	0.00433	0.26967	0		tricapped trigonal prism Ni_5Ce_4
Ni3	6*l*	*m*..	0.07933	0.45947	0		13-vertex polyhedron $Ni_7P_3Ce_3$
Ce4	3*k*	*mm*2	0.18703	0.81297	$^1/_2$		22-vertex polyhedron $Ni_{12}P_6Ce_4$
Ni5	3*k*	*mm*2	0.39653	0.60347	$^1/_2$		13-vertex polyhedron $PNi_{10}Ce_2$
P6	3*k*	*mm*2	0.48233	0.51767	$^1/_2$		tricapped trigonal prism Ni_7Ce_2
P7	3*k*	*mm*2	0.75233	0.24767	$^1/_2$		tricapped trigonal prism Ni_5Ce_4
Ce8	3*k*	*mm*2	0.90923	0.09077	$^1/_2$		21-vertex polyhedron $P_5Ni_{10}Ce_6$
Ni9	3*j*	*mm*2	0.09163	0.90837	0		tricapped trigonal prism P_2NiCe_6
Ni10	3*j*	*mm*2	0.27633	0.72367	0		square prism (cube) Ni_8
Ce11	3*j*	*mm*2	0.57323	0.42677	0		22-vertex polyhedron $P_8Ni_{10}Ce_4$
Ni12	3*j*	*mm*2	0.81073	0.18927	0		cuboctahedron $P_4Ni_4Ce_4$
Ni13	1*f*	-6*m*2	$^2/_3$	$^1/_3$	$^1/_2$		coplanar triangle P_3
Ni14	1*a*	-6*m*2	0	0	0		tricapped trigonal prism Ni_3Ce_6

Transformation from published data: -*x*,-*y*,-*z*; origin shift $^2/_3$ $^1/_3$ $^1/_2$
Experimental: single crystal, diffractometer, X-rays, R = 0.069

References: [1] Babizhets'kii V.S., Chykhrii S.I., Oryshchyn S.V., Kuz'ma Y.B. (1992), Russ. J. Inorg. Chem. 37, 1372-1374 (Zh. Neorg. Khim. 37, 2660-2662).