$UNiAlH_{0.7}$	*hP*13	(189) *P*-62*m* – hgfda

$UNiAlH_{0.7}$ [1]
Structural features: Filled-up derivative of ZrNiAl with H in trigonal bipyramidal (U_3Ni_2) voids.

Yamamoto T. et al. (1994) [1]
$AlD_{0.67}NiU$
$a = 0.6962$, $c = 0.3992$ nm, $c/a = 0.573$, $V = 0.1676$ nm^3, $Z = 3$

site	Wyck.	sym.	*x*	*y*	*z*	occ.	atomic environment
D1	4*h*	3..	$^1/_3$	$^2/_3$	0.012	0.5	
Al2	3*g*	*m*2*m*	0.239	0	$^1/_2$		
U3	3*f*	*m*2*m*	0.592	0	0		
Ni4	2*d*	-6..	$^1/_3$	$^2/_3$	$^1/_2$		
Ni5	1*a*	-62*m*	0	0	0		tricapped trigonal prism Al_6U_3

Transformation from published data: origin shift 0 0 $^1/_2$
Experimental: powder, diffractometer, neutrons

Remarks: Short interatomic distances for partly occupied site(s). In table 1 of [1] the Wyckoff position of former Ni(2) is misprinted as 2*d* instead of 2*c*.

References: [1] Yamamoto T., Kayano H., Yamawaki M. (1994), J. Alloys Compd. 213, 533-535.