$LaNiInH_{1.63}$	*hP*16	(189) *P*-62*m* – hgf^2da

$LaNiInH_{1.63}$ [1]
Structural features: Filled-up derivative of ZrNiAl with H in tetrahedral (La_3Ni) and octahedral (La_3NiIn_2) voids; H_2 pairs (0.171 nm).

Denys R.V. et al. (2003) [1]
$D_{1.64}InLaNi$
a = 0.73874, c = 0.46816 nm, c/a = 0.634, V = 0.2213 nm^3, Z = 3

site	Wyck.	sym.	x	y	z	occ.	atomic environment
D1	4*h*	3..	$^1/_3$	$^2/_3$	0.183	0.96	colinear NiD
In2	3*g*	*m*2*m*	0.247	0	$^1/_2$		non-colinear D_2
D3	3*f*	*m*2*m*	0.226	0	0	0.36	single atom Ni
La4	3*f*	*m*2*m*	0.603	0	0		trigonal prism D_6
Ni5	2*d*	-6..	$^1/_3$	$^2/_3$	$^1/_2$		colinear D_2
Ni6	1*a*	-62*m*	0	0	0		coplanar triangle D_3

Transformation from published data: origin shift 0 0 $^1/_2$
Experimental: powder, diffractometer, neutrons, R_p = 0.031, T = 298 K, $p(H_2)$ = 0.46 MPa

References: [1] Denys R.V., Riabov A.B., Yartys V.A., Hauback B.C., Brinks H.W. (2003), J. Alloys Compd. 356/357, 65-68.