$Li[BH_4]$	$hP12$	(186) $P6_3mc$ – cb^3

$LiBH_4$ ht [1]
Structural features: BH_4 tetrahedra in h stacking; Li in "tetrahedral" voids.

Soulié J.P. et al. (2002) [1]
BH_4Li
a = 0.42763, c = 0.69484 nm, c/a = 1.625, V = 0.1100 nm^3, Z = 2

site	Wyck.	sym.	x	y	z	occ.	atomic environment
H1	6*c*	.*m*.	0.828	0.172	0.124		single atom B
Li2	2*b*	3*m*.	$^1/_3$	$^2/_3$	0.0		non-coplanar hexagon H_6
H3	2*b*	3*m*.	$^1/_3$	$^2/_3$	0.37		single atom B
B4	2*b*	3*m*.	$^1/_3$	$^2/_3$	0.553		tetrahedron H_4

Experimental: powder, diffractometer, X-rays, synchrotron, R_B = 0.055, T = 408 K

Remarks: Phase stable at T > 381 K.

References: [1] Soulié J.P., Renaudin G., Cerny R., Yvon K. (2002), J. Alloys Compd. 346, 200-205.