

LiPt ₃ B	<i>hP15</i>	(189) <i>P</i> -62 <i>m</i> – jg ² da
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LiPt₃B [1]

Structural features: Infinite columns of base-linked BPt₆ trigonal prisms parallel to [001]; no B-B contact.

Mirgel R., Jung W. (1988) [1]

BLiPt₃

$a = 0.9236$, $c = 0.2768$ nm, $c/a = 0.300$, $V = 0.2045$ nm³, $Z = 3$

site	Wyck.	sym.	<i>x</i>	<i>y</i>	<i>z</i>	occ.	atomic environment
Pt1	6 <i>j</i>	<i>m</i> ..	0.1619	0.4831	0		13-vertex polyhedron B ₂ Pt ₇ Li ₄
Pt2	3 <i>g</i>	<i>m2m</i>	0.1779	0	¹ / ₂		icosahedron B ₂ Li ₂ Pt ₈
Li3	3 <i>g</i>	<i>m2m</i>	0.6686	0	¹ / ₂		16-vertex Frank-Kasper Pt ₁₀ Li ₂ B ₄
B4	2 <i>d</i>	-6..	¹ / ₃	² / ₃	¹ / ₂		trigonal prism Pt ₆
B5	1 <i>a</i>	-62 <i>m</i>	0	0	0		trigonal prism Pt ₆

Transformation from published data: -*x*, -*y*, -*z*; origin shift 0 0 ¹/₂

Experimental: single crystal, diffractometer, X-rays, R = 0.071

References: [1] Mirgel R., Jung W. (1988), J. Less-Common Met. 144, 87-99.