

LiRh	<i>hP2</i>	(187) <i>P-6m2</i> – da
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LiRh [1]; LiPt [2]

Structural features: Close-packed Li and Rh layers in h stacking.

Sidhu S.S. et al. (1965) [1]

LiRh

$a = 0.2649$, $c = 0.4359$ nm, $c/a = 1.646$, $V = 0.0265$ nm³, $Z = 1$

site	Wyck.	sym.	<i>x</i>	<i>y</i>	<i>z</i>	occ.	atomic environment
Li1	1 <i>d</i>	-6 <i>m2</i>	$\frac{1}{3}$	$\frac{2}{3}$	$\frac{1}{2}$		anticuboctahedron Li ₆ Rh ₆
Rh2	1 <i>a</i>	-6 <i>m2</i>	0	0	0		anticuboctahedron Rh ₆ Li ₆

Experimental: powder, diffractometer, neutrons

Remarks: The description in space group (174) *P-6* in [1] does not take into consideration all symmetry elements of the proposed structure (see [3]). The two atom sites are crystallographically equivalent (may be interchanged). In the abstract of [1] the *c*-parameter is given as 4.357 Å but as 4.359 Å in the text.

References: [1] Sidhu S.S., Anderson K.D., Zaubers D.D. (1965), Acta Crystallogr. 18, 906-907. [2] Bronger W., Nacken B., Ploog K. (1975), J. Less-Common Met. 43, 143-146. [3] Cenxual K., Gelato L.M., Penzo M., Parthé E. (1991), Acta Crystallogr. B 47, 433-439.