$LiAgC_2$	*hP*4	(187) *P*-6*m*2 – gda

$LiAgC_2$ [1]; $LiAuC_2$ [2]
Structural features: Ag atoms and C_2 dumbbells arranged in infinite chains parallel to [001]; Li in flattened trigonal prisms formed by three C_2 dumbbells.

Kockelmann W., Ruschewitz U. (1999) [1]
AgC_2Li
a = 0.37882, c = 0.5328 nm, c/a = 1.406, V = 0.0662 nm^3, Z = 1

site	Wyck.	sym.	x	y	z	occ.	atomic environment
C1	2*g*	3*m*.	0	0	0.38		single atom C
Li2	1*d*	-6*m*2	$^1/_3$	$^2/_3$	$^1/_2$		trigonal prism C_6
Ag3	1*a*	-6*m*2	0	0	0		colinear C_2

Experimental: powder, diffractometer, neutrons, R = 0.007

Remarks: Alternative models in space groups (191) P6/*mmm* and (194) $P6_3/mmc$ (double *c*-parameter for the latter) were tested and rejected (R = 0.008 for both).

References: [1] Kockelmann W., Ruschewitz U. (1999), Angew. Chem. Int. Ed. 38, 3492-3495 (Angew. Chem. 111, 3697-3700). [2] Offermanns J., Ruschewitz U., Kneip C. (2000), Z. Anorg. Allg. Chem. 626, 649-654.