$LiCoO_2$	$hP10$	(186) $P6_3mc$ – b^3a^2

$LiCoO_2$ O2-type [1]
Structural features: Close-packed O layers in hc stacking; Co and main part of Li in octahedral voids, additional Li in tetrahedral voids (displaced from the center).

Carlier D. et al. (2001) [1]
$Co_{0.94}Li_{1.03}O_{1.88}$
a = 0.28025, c = 0.95358 nm, c/a = 3.403, V = 0.0649 nm^3, Z = 2

site	Wyck.	sym.	x	y	z	occ.	atomic environment
Li1	2*b*	3*m*.	$^1/_3$	$^2/_3$	0.019		
O2	2*b*	3*m*.	$^1/_3$	$^2/_3$	0.3684	0.93	tricapped trigonal prism Co_3Li_6
Co3	2*b*	3*m*.	$^1/_3$	$^2/_3$	0.76	0.94	octahedron O_6
Li4	2*a*	3*m*.	0	0	0.0	0.03	
O5	2*a*	3*m*.	0	0	0.1519	0.95	

Transformation from published data: -*x*,-*y*,-*z*; origin shift 0 0 0.24
Experimental: powder, diffractometer, neutrons, R_B = 0.048, T = 300 K

Remarks: Metastable phase. Short interatomic distances for partly occupied site(s).

References: [1] Carlier D., Saadoune I., Croguennec L., Menetrier M., Suard E., Delmas C. (2001), Solid State Ionics 144, 263-276.