NaLi[CO_3]	*hP*21	(174) *P*-6 – k^2j^4eda

$LiNaCO_3$ γ [1]
Structural features: CO_3 trigonal units (perpendicular to [001], in part rotational disorder) in an ω Ti-type arrangement. $Li_3(CO_3)_2$ layers alternate with $Na_3(CO_3)$ layers along [001].

Zhukov S.G. et al. (1999) [1]
$CLiNaO_3$
a = 0.83115, c = 0.33858 nm, c/a = 0.407, V = 0.2026 nm^3, Z = 3

site	Wyck.	sym.	x	y	z	occ.	atomic environment
O1	3*k*	*m*..	0.16067	0.53433	$^1/_2$		single atom C
Na2	3*k*	*m*..	0.31867	0.30633	$^1/_2$		5-vertex polyhedron O_5
Li3	3*j*	*m*..	0.08267	0.32633	0		single atom O
O4	3*j*	*m*..	0.10567	0.17933	0	0.5	single atom O
O5	3*j*	*m*..	0.17967	0.10833	0	0.5	single atom O
O6	3*j*	*m*..	0.54967	0.15633	0		single atom C
C7	1*e*	-6..	$^2/_3$	$^1/_3$	0		coplanar triangle O_3
C8	1*d*	-6..	$^1/_3$	$^2/_3$	$^1/_2$		coplanar triangle O_3
C9	1*a*	-6..	0	0	0		coplanar hexagon O_6

Transformation from published data: *y*,*x*,*z*; origin shift $^1/_3$ $^2/_3$ 0
Experimental: powder, diffractometer, X-rays, R_p = 0.058, T = 713 K

Remarks: Phase stable at T > 623 K. Short interatomic distances: d(Li3-O4) = 0.133 nm. Short interatomic distances for partly occupied site(s).

References: [1] Zhukov S.G., Yatsenko A.V., Chernyshev V.V., D'yakov V.A., Le Loux R., Schenk H. (1999), Z. Kristallogr. 214, 255-258.