$Ba_5Re_3ClO_{15}$	*hP*50	(185) $P6_3cm$ – $d^2c^3ba^2$

$Ba_5(ReO_5)_3Cl$ [1]
Structural features: Infinite columns of face-linked $ClBa_6$ octahedra (split Cl site) parallel to [001]; single ReO_5 square pyramids and additional Ba between the columns.

Besse J.P. et al. (1979) [1]
$Ba_5ClO_{15}Re_3$
a = 1.0935, c = 0.7795 nm, c/a = 0.713, V = 0.8072 nm^3, Z = 2

site	Wyck.	sym.	x	y	z	occ.	atomic environment
O1	12*d*	1	0.129	0.577	0.316		single atom Re
O2	12*d*	1	0.258	0.39	0.017		single atom Re
O3	6*c*	..*m*	0.298	0	0.166		single atom Re
Re4	6*c*	..*m*	0.3919	0	0.3445		square pyramid O_5
Ba5	6*c*	..*m*	0.7382	0	0.2955		pseudo Frank-Kasper O_9Cl_2
Ba6	4*b*	3..	$^1/_3$	$^2/_3$	0.057		tricapped trigonal prism O_9
Cl7	2*a*	3.*m*	0	0	0.0	0.5	single atom Cl
Cl8	2*a*	3.*m*	0	0	0.133	0.5	single atom Cl

Transformation from published data: origin shift 0 0 0.943
Experimental: single crystal, diffractometer, X-rays, R = 0.068

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

References: [1] Besse J.P., Baud G., Levasseur G., Chevalier R. (1979), Acta Crystallogr. B 35, 1756-1759.