CdCl[OH]	*hP*6	(186) $P6_3mc$ – b^2a

Cd(OH)Cl [2], Strukturbericht notation $E0_3$
Structural features: Close-packed OH and Cl layers in hc stacking; Cd in octahedral voids. Layer structure with sandwiches consisting of three sublayers (OH-Cd-Cl). $Cd(Cl_3[OH]_3)$ octahedra share edges to form infinite slabs. Ordering variant of 4H-CdI_2.

Cudennec Y. et al. (2000) [1]
CdClHO
a = 0.36648, c = 1.02305 nm, c/a = 2.792, V = 0.1190 nm^3, Z = 2

site	Wyck.	sym.	x	y	z	occ.	atomic environment
Cl1	2*b*	3*m*.	$^1/_3$	$^2/_3$	0.2459		non-coplanar triangle Cd_3
Cd2	2*b*	3*m*.	$^1/_3$	$^2/_3$	0.58129		octahedron O_3Cl_3
O3	2*a*	3*m*.	0	0	0.0		non-coplanar triangle Cd_3
H4	2*a*	3*m*.	0	0	0.4092		

Transformation from published data: -*x*,-*y*,-*z*; origin shift 0 0 0.9108
Experimental: single crystal, diffractometer, X-rays, R = 0.041

Remarks: Hydrogen atoms are not taken into consideration for Pearson symbol, Wyckoff sequence and atomic environments.

References: [1] Cudennec Y., Riou A., Gérault Y., Lecerf A. (2000), J. Solid State Chem. 151, 308-312. [2] Hoard J.L., Grenko J.D. (1934), Z. Kristallogr. 87, 110-119.