$Na_2CdZr[C_2O_4]_4[H_2O]_{8.5}$	*hP*108	(180) $P6_222 - k^7f^2dcba$

$Na_2CdZr(C_2O_4)_4 \cdot 8.5H_2O$ [1]
Structural features: CdO_8 and ZrO_8 square antiprisms share edges (of the square faces) with planar O_2C-CO_2 (oxalate) units to form a 3D-framework; Na and H_2O in channels parallel to [001].

Jeanneau E. et al. (2003) [1]
$C_8CdH_{16}Na_2O_{24}Zr$
$a = 0.8793$, $c = 2.453$ nm, $c/a = 2.790$, $V = 1.6425$ nm^3, $Z = 3$

site	Wyck.	sym.	*x*	*y*	*z*	occ.	atomic environment
O1	12*k*	1	0.0889	0.342	0.2134		single atom C
$(OH_2)2$	12*k*	1	0.206	0.187	0.08923		single atom Na
C3	12*k*	1	0.211	0.416	0.2483		non-coplanar triangle O_2C
O4	12*k*	1	0.232	0.5487	0.11423		single atom C
O5	12*k*	1	0.259	0.3398	0.2805		single atom C
C6	12*k*	1	0.297	0.617	0.2495		non-coplanar triangle O_2C
O7	12*k*	1	0.564	0.258	0.05693		single atom C
$(OH_2)8$	6*f*	2..	$^1/_2$	0	0.16723		tetrahedron O_2C_2
$(OH_2)9$	6*f*	2..	$^1/_2$	0	0.33407		non-colinear O_2
Zr10	3*d*	222	$^1/_2$	0	$^1/_2$		square antiprism O_8
Cd11	3*c*	222	$^1/_2$	0	0		square antiprism O_8
Na12	3*b*	222	0	0	$^1/_2$		8-vertex polyhedron $(OH_2)_4O_4$
Na13	3*a*	222	0	0	0		8-vertex polyhedron $(OH_2)_4O_4$

Transformation from published data ($P6_422$): new axes -a,-b,-c
Experimental: single crystal, diffractometer, X-rays, R = 0.098

Remarks: Part of H_2O not located; we set the occupancy of site $(OH_2)9$ equal to unity (published value 1.26(10)). Hydrogen atoms are not taken into consideration for Pearson symbol, Wyckoff sequence and atomic environments.

References: [1] Jeanneau E., Audebrand N., Le Floch M., Bureau B., Louer D. (2003), J. Solid State Chem. 170, 330-338.