$Al[PO_4][H_2O]_{0.1}$	*hP*162	(185) $P6_3cm$ – $d^{11}c^5$

$AlPO_4 \cdot 0.1H_2O$ [1], zeolite VFI residual water
Structural features: AlO_4 and PO_4 tetrahedra share vertices to form a VFI-type zeolite framework and a related framework with rotated 6-rings (partial disorder).

Poojary D.M. et al. (1992) [1]
$AlH_{0.20}O_{4.10}P$
a = 1.86576, c = 0.83284 nm, c/a = 0.446, V = 2.5108 nm^3, Z = 18

site	Wyck.	sym.	*x*	*y*	*z*	occ.	atomic environment
O1	12*d*	1	0.0934	0.4414	0.124	0.35	
O2	12*d*	1	0.1029	0.4382	0.307	0.65	
O3	12*d*	1	0.157	0.506	0.401	0.35	
O4	12*d*	1	0.1675	0.4934	0.028	0.65	
P5	12*d*	1	0.1709	0.5049	0.202		
O6	12*d*	1	0.199	0.5879	0.294	0.65	
O7	12*d*	1	0.1993	0.5828	0.092	0.35	
O8	12*d*	1	0.249	0.4915	0.218		non-coplanar triangle PAl_2
Al9	12*d*	1	0.3382	0.5106	0.326	0.65	trigonal bipyramid O_4Al
Al10	12*d*	1	0.3432	0.5083	0.114	0.35	trigonal bipyramid AlO_4
O11	12*d*	1	0.3699	0.4466	0.269		non-coplanar triangle PAl_2
(OH_2)12	6*c*	..*m*	0.376	0	0.051	0.3	non-colinear O_2
Al13	6*c*	..*m*	0.4108	0	0.303		tetrahedron O_4
O14	6*c*	..*m*	0.4883	0	0.201		non-colinear PAl
P15	6*c*	..*m*	0.5677	0	0.171		tetrahedron O_4
O16	6*c*	..*m*	0.5894	0	0.0		non-colinear PAl

Transformation from published data: *-x,-y,-z*; origin shift 0 0 0.04
Experimental: powder, diffractometer, X-rays, R_p = 0.086

Remarks: Short interatomic distances for partly occupied site(s). Hydrogen atoms are not taken into consideration for Pearson symbol, Wyckoff sequence and atomic environments.

References: [1] Poojary D.M., Perez J.O., Clearfield A. (1992), J. Phys. Chem. 96, 7709-7714.