$Al_{12}[SiO_4][PO_4]_{11}F$	*hP*78	(184) *P*6*cc* – d^6c

$AlPO_4$:SiO_2,HF form 5 [1], zeolite AFI
Structural features: AlO_4 and $(P,Si)O_4$ tetrahedra share vertices to form an AFI-type zeolite framework with channels delimited by 12-rings parallel to [001]; F above 4-rings.

Zhao D.Q. et al. (1992) [1]
$Al_{12}FO_{48}P_{11}Si$
a = 1.3802, c = 0.8503 nm, c/a = 0.616, V = 1.4028 nm^3, Z = 1

site	Wyck.	sym.	x	y	z	occ.	atomic environment
O1	12*d*	1	0.0039	0.3626	0.1832		non-colinear PAl
O2	12*d*	1	0.1245	0.454	0.421		non-colinear PAl
M3	12*d*	1	0.1255	0.4532	0.2351		tetrahedron O_4
O4	12*d*	1	0.1557	0.566	0.1762		non-colinear PAl
O5	12*d*	1	0.2055	0.4196	0.1898		non-colinear PAl
Al6	12*d*	1	0.4556	0.1185	0.1071		tetrahedron O_4
F7	6*c*	2..	$^1/_2$	0	0.0	0.167	coplanar square Al_2O_2

M3 = 0.917P + 0.083Si
Transformation from published data: origin shift 0 0 0.8179
Experimental: single crystal, diffractometer, X-rays, R = 0.043

Remarks: The authors state that Si substitutes exclusively for P. We assigned an approximate value to the P/Si ratio of site M3 based on the nominal composition.

References: [1] Zhao D.Q., Pang W.Q., Li L., Yang G.D. (1992), Gaodeng Xuexiao Huaxue Xuebao 13, 1165-1167.