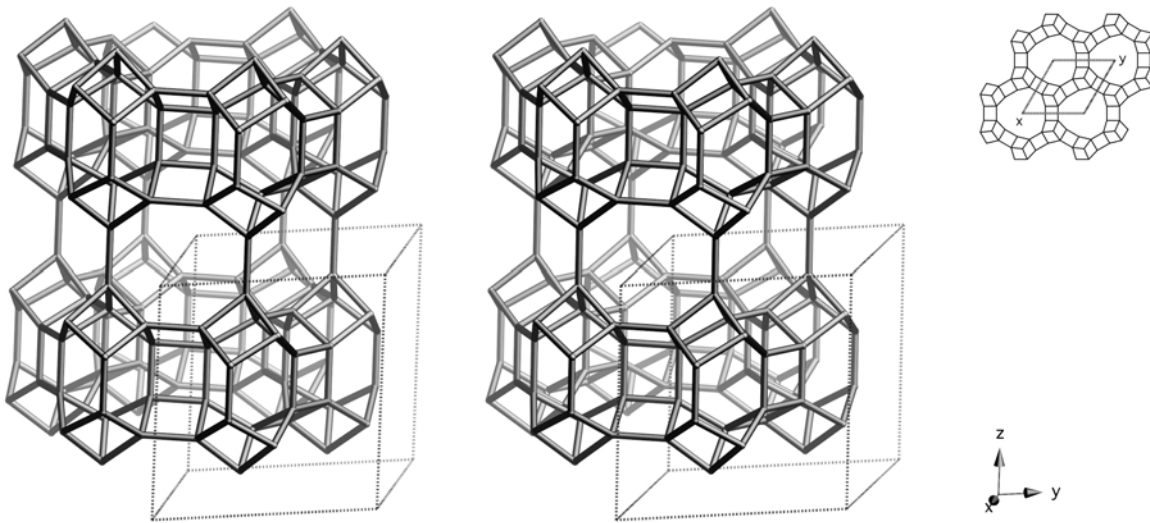


Framework Type Data



framework viewed normal to $[001]$ (upper right: projection down $[001]$)

Idealized cell data: hexagonal, $P\bar{6}2m$, $a = 13.1\text{\AA}$, $c = 13.0\text{\AA}$

Coordination sequences and vertex symbols:

$T_1(12,1)$	4	9	17	28	42	60	84	113	140	169	4·4·4·8 ₂ ·6 ₂ ·8
$T_2(12,1)$	4	9	16	25	39	61	86	111	141	173	4·4·4·6·6·12
$T_3(4,3)$	4	9	18	30	43	62	85	105	135	180	4·8·4·8·4·8

Secondary building units: 6*1

Composite building units:*afs**bph***Materials with this framework type:***Beryllphosphate-H^(1,2)Linde Q⁽³⁾STA-5⁽⁴⁾UZM-4⁽⁵⁾

Type Material: Berylllophosphate-H

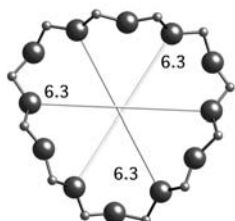
BPH

Type Material Data

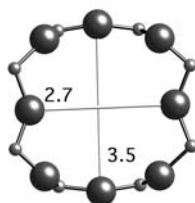
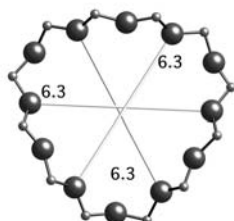
Crystal chemical data: $\text{K}_7\text{Na}_7(\text{H}_2\text{O})_{20}[\text{Be}_{14}\text{P}_{14}\text{O}_{56}]$ -BPH
trigonal, $P321$, $a = 12.582\text{\AA}$, $c = 12.451\text{\AA}$ ⁽²⁾

Framework density: 16.4 T/1000 \AA^3

Channels: $[001]$ 12 6.3 x 6.3* $\leftrightarrow \perp$ $[001]$ 8 2.7 x 3.5**



12-ring viewed along $[001]$



8-ring viewed normal to $[001]$

References:

- (1) Harvey, G. Z. *Kristallogr.*, **182**, 123-124 (1988)
- (2) Harvey, G., Baerlocher, Ch. and Wroblewski, T. *Z. Kristallogr.*, **201**, 113-123 (1992)
- (3) Andries, K.J., Bosmans, H.J. and Grobet, P.J. *Zeolites*, **11**, 124-131 (1991)
- (4) Patinec, V., Wright, P.A., Aitken, R.A., Lightfoot, P., Purdie, S.D.J., Cox, P.A., Kvick, A. and Vaughan, G. *Chem. Mater.*, **11**, 2456-2462 (1999)
- (5) Blackwell, C.S., Broach, R.W., Gatter, M.G., Holmgren, J.S., Jan, D.-Y., Lewis, G.J., Mezza, B.J., Mezza, T.M., Miller, M.A., Moscoso, J.G., Patton, R.L., Rohde, L.M., Schoonover, M.W., Sinkler, W., Wilson, B.A. and Wilson, S.T. *Angew. Chem., Int. Ed.*, **42**, 1737-1740 (2003)