Framework Type Data

*Framework viewed along [001]*

**Idealized cell data:** hexagonal, $P6_3/mmc$, $a = 9.1\,\text{Å}$, $c = 5.3\,\text{Å}$

**Coordination sequences and vertex symbols:**

| $T_1$ ($6_{mm2}$) | 4 | 10 | 20 | 34 | 58 | 82 | 108 | 144 | 186 | 222 | 268 | 330   | 3·6 | 6·6·6·6·6·6

**Secondary building units:** 3

**Materials with this framework type:**

*Nitridophosphate-1$^{(1)}$*
Type Material Data

Crystal chemical data: \( \text{Li}_{x} \text{H}_{12.4-32.3} \text{Cl}, \text{I} \) [\( \text{P}_{12} \text{O}_{y} \text{N}_{24-x} \)]-NPO with 6 < x < 9, 2 < y < 4 and 2 < z < 3
orthorhombic, \( Pna_{21} \), \( a = 4.753 \) Å, \( b = 14.208 \) Å, \( c = 8.203 \) Å (1)
(Relationship to unit cell of Framework Type:
\( a' = c, b' = a \sqrt{3}, c' = b \)
or, as vectors, \( a' = c, b' = 2a + b, c' = b \))

Framework density: 21.7 T/1000 Å³

Channels: [100] \( 12 3.3 \times 4.4^* \)

12-ring viewed along [100]

References: