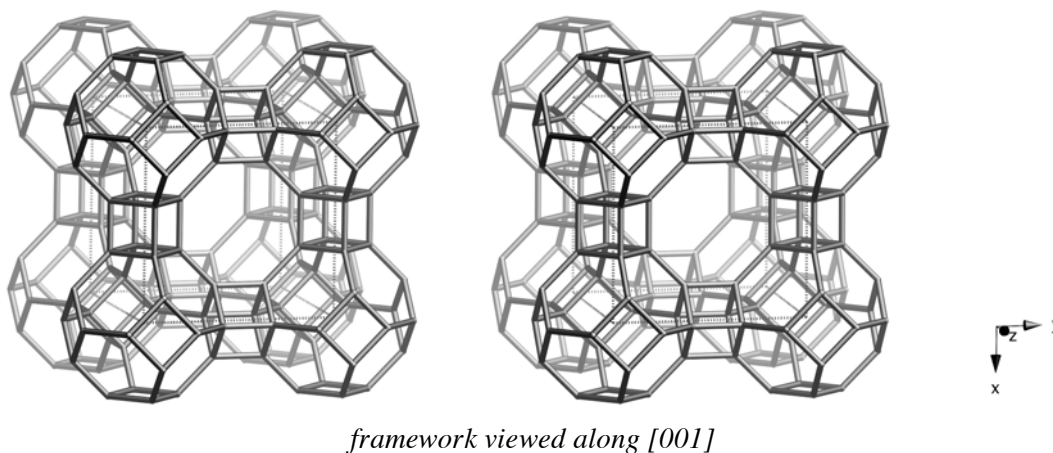


Framework Type Data



Idealized cell data: cubic, $Pm\bar{3}m$, $a = 11.9\text{\AA}$

Coordination sequences and vertex symbols:

$T_1(24,m)$ 4 9 17 28 42 60 81 105 132 162

4·6·4·6·4·8

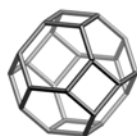
Secondary building units: 8 or 4-4 or 6-2 or 6 or 1-4-1 or 4

Composite building units:

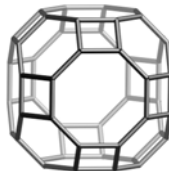
d4r



sod



lta



Materials with this framework type:

*Linde Type A (zeolite A)^(1,2)

[Al-Ge-O]-LTA⁽³⁾

[Ga-P-O]-LTA⁽⁴⁾

Alpha⁽⁵⁾

Dehyd. Linde Type A (dehyd. zeolite A)⁽⁶⁾

ITQ-29⁽⁷⁾

LZ-215⁽⁸⁾

N-A⁽⁹⁾

SAPO-42⁽¹⁰⁾

ZK-21⁽¹¹⁾

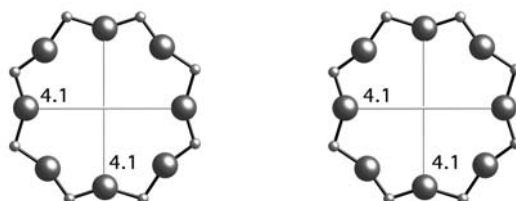
ZK-22⁽¹¹⁾

ZK-4⁽¹²⁾

Type Material: Linde Type A

Type Material Data

Crystal chemical data:	$\text{[Na}_{12}(\text{H}_2\text{O})_{27}\text{I}_8[\text{Al}_{12}\text{Si}_{12}\text{O}_{48}]_8\text{-LTA}$ cubic, $Fm\bar{3}c$, $a = 24.61\text{\AA}^{(2)}$ (Relationship to unit cell of Framework Type: $a' = 2a$)
Framework density:	12.9 T/1000 \AA^3
Channels:	$\langle 100 \rangle$ 8 4.1 x 4.1***

8-ring viewed along $\langle 100 \rangle$ **References:**

- (1) Reed, T.B. and Breck, D.W. *J. Am. Chem. Soc.*, **78**, 5972-5977 (1956)
- (2) Gramlich, V. and Meier, W.M. *Z. Kristallogr.*, **133**, 134-149 (1971)
- (3) Barrer, R.M., Baynham, J.W., Bultitude, F.W. and Meier, W.M. *J. Chem. Soc.*, 195-208 (1959)
- (4) Simmen, A., Patarin, J. and Baerlocher, Ch. *Proc. 9th Int. Zeolite Conf.*, pp. 433-440 (1993)
- (5) Wadlinger, R.L., Rosinski, E.J. and Plank, C.J. *U.S. Patent 3,375,205* (1968)
- (6) Pluth, J.J. and Smith, J.V. *J. Am. Chem. Soc.*, **102**, 4704-4708 (1980)
- (7) Corma, A., Rey, F., Rius, J., Sabater, M.J. and Valencia, S. *Nature*, **431**, 287-290 (2004)
- (8) Breck, D.W. and Skeels, G.W. *U.S. Patent 4,503,023* (1985)
- (9) Barrer, R.M. and Denny, P.J. *J. Chem. Soc.*, 971-982 (1961)
- (10) Lok, B.M., Messina, C.A., Patton, R.L., Gajek, R.T., Cannan, T.R. and Flanigen, E.M. *J. Am. Chem. Soc.*, **106**, 6092-6093 (1984)
- (11) Kuehl, G.H. *Inorg. Chem.*, **10**, 2488-2495 (1971)
- (12) Kerr, G.T. *Inorg. Chem.*, **5**, 1537-1539 (1966)