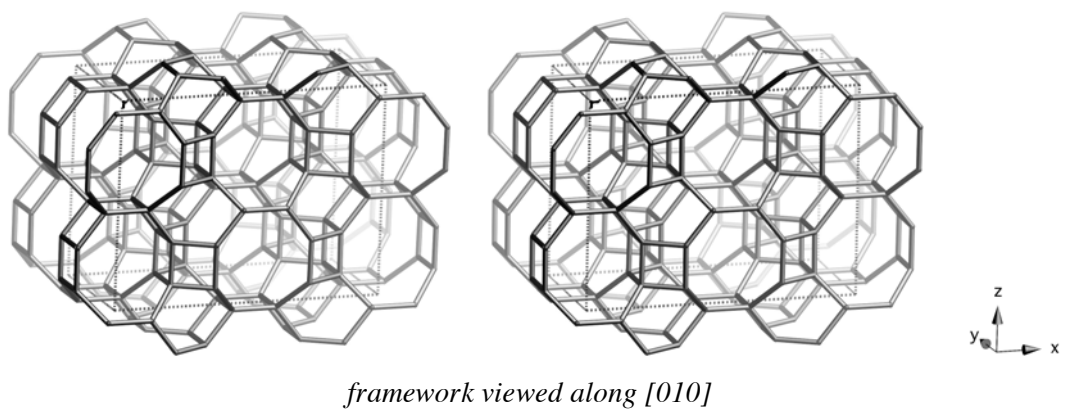


Framework Type Data



Idealized cell data: orthorhombic, $Fmm2$, $a = 19.5 \text{ \AA}$, $b = 9.4 \text{ \AA}$, $c = 15.1 \text{ \AA}$

Coordination sequences and vertex symbols:

$T_1(16,1)$	4	10	20	35	56	80	105	135	174	217	259	306	$4\cdot6_2\cdot4\cdot8_3\cdot6\cdot8_2$
$T_2(16,1)$	4	9	19	35	55	77	102	135	173	214	259	307	$4\cdot4\cdot4\cdot6\cdot8\cdot8_3$
$T_3(16,1)$	4	10	21	36	53	76	108	142	173	210	259	310	$4\cdot6\cdot4\cdot8_2\cdot6\cdot8$

Secondary building units: 6 or 4-2 or 4

Composite building units:

dcc
double
crankshaft chain

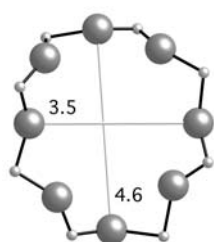
Materials with this framework type:

*Mu-18⁽¹⁾

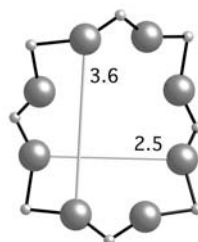
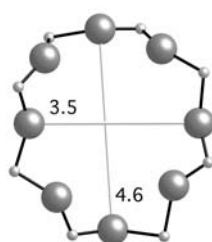
Type Material: Mu-18

Type Material Data

Crystal chemical data:	$\text{[(C}_5\text{H}_{14}\text{N}_2)_4(\text{H}_2\text{O})_4\text{] [Ga}_{24}\text{P}_{24}\text{O}_{96}(\text{OH})_8\text{]-UEI}$ $\text{C}_5\text{H}_{12}\text{N}_2 = 1\text{-methylpiperazine}$ orthorhombic, <i>Aea</i> 2, $a = 18.035\text{Å}$, $b = 10.513\text{Å}$, $c = 14.293\text{Å}$ ⁽¹⁾
Stability:	reversibly adsorbs water below 350°C ⁽¹⁾
Framework density:	17.7 T/1000Å ³
Channels:	{[010] 8 3.5 x 4.6 ↔ [001] 8 2.5 x 3.6} ^{**}



8-ring viewed along [010]



8-ring viewed along [001]

References:

- (1) Josien, L., Simon, A., Gramlich, V. and Patarin, J. *Chem. Mater.*, **13**, 1305-1311 (2001)