Supporting Information

Heterometallic Zn₆Ti₂ Building Block Persistent in Metal-organic Frameworks **Based on Asymmetrically Substituted Dicarboxylate Ligands**

Hyungphil Chun

Department of Applied Chemistry, College of Science and Technology, Hanyang University, Ansan 426-791, Korea E-mail: hchun@hanyang.ac.kr Received January 23, 2014, Accepted February 21, 2014

Table S1. Crystal data and summary of structure refinements.

Formula	C ₄₅ H ₃₁ N O ₁₈ Ti Zn ₃
FW	1117.72
Temp (K)	100(2)
λ (Å)	0.80003
Crystal system	Monoclinic
Space group	P2 ₁ /c
a (Å)	20.563(4)
a (Å)	18.543(4)
c (Å)	28.528(6)
β (°)	106.43(3)
$V(\mathring{A}^3)$	10433(4)
Z	4
$ ho_{calc}$ (g cm ⁻³)	0.712
μ (mm ⁻¹)	1.088
F(000)	2256
Crystal size (mm ³)	$0.08\times0.06\times0.06$
θ range (°)	1.70 to 30.50
h, k, l ranges	$-25 \le h \le 25, -23 \le k \le 23, -36 \le l \le 36$
Reflections collected	77087
Independent (R _{int})	21970 (0.0394)
Completeness (%)	98.4
Absorption correction	Semi-empirical
T _{max} / T _{min}	0.9376 / 0.9180
Refinement method	Full-matrix least-squares on F ²
Data / restraints / param	21970 / 1 / 659
GOF on F ²	1.030
R_1 , wR_2 [I>2 σ (I)]	$R_1 = 0.0809$, $wR_2 = 0.2343$
R ₁ , wR ₂ (all data)	$R_1 = 0.0895$, $wR_2 = 0.2443$
Extinction coefficient	0.0173(9)
Largest diff. peak / hole (e/ų)	1.138 / -1.684

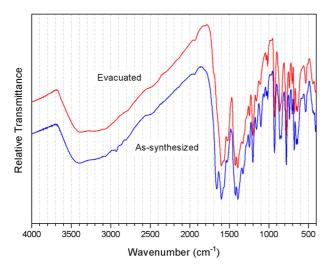


Figure S1. FT-IR spectra for as-synthesized and evacuated 1.

