

## Technical Data Sheet

# ACS Material Metal-Organic Framework Cu-BTC (HKUST-1)

## (BTC=benzene-1,3,5-tricarboxylate)

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#### **Contact Information:**

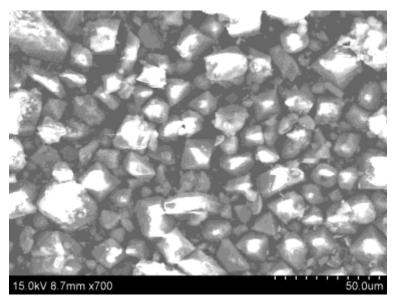
Manufacturer: ACS Material, LLC. Address: 959 E Walnut St. Suite 100, Pasadena, CA 91106, USA Phone: (866)-227-0656 Fax: (781)-518-0284 E-Mail: contact@acsmaterial.com Revision: 090717

### 1. Preparation Method

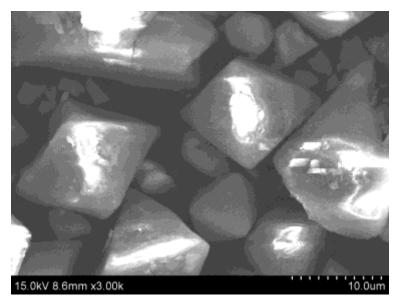
Hydrothermal Method

#### 2. Characterizations

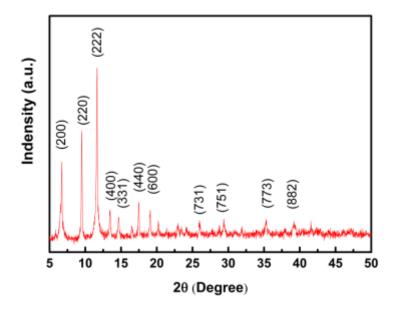
Form:	Metal Organic Framework (MOF)
Appearance:	Octahedron Blue Powder
Particle size (µm):	10-20
BET surface area (m <sup>2</sup> /g):	≥1172
Pore Volume (cm <sup>3</sup> /g):	0.57
Pore Size (nm):	0.6



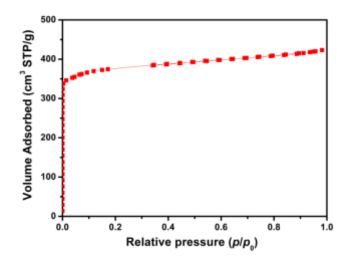
Typical SEM Image of ACS Material Cu-BTC MOF (HKUST-1)



Typical SEM Image of ACS Material Cu-BTC MOF (HKUST-1)



XRD Analysis of ACS Material Cu-BTC MOF (HKUST-1)



N<sub>2</sub> Adsorption Isotherms Analysis of ACS Material Cu-BTC MOF (HKUST-1)

#### 3. Application Fields

- 1) Selective gas adsorption
- 2) Catalysts
- 3) Gas adsorption separation and storage
- 4) Optical, electrical and magnetic materials

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