



## Technical Data Sheet

### ACS Material Zeolitic Imidazolate Framework-67 (ZIF-67)

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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](mailto:contact@acsmaterial.com)

Revision: 083017

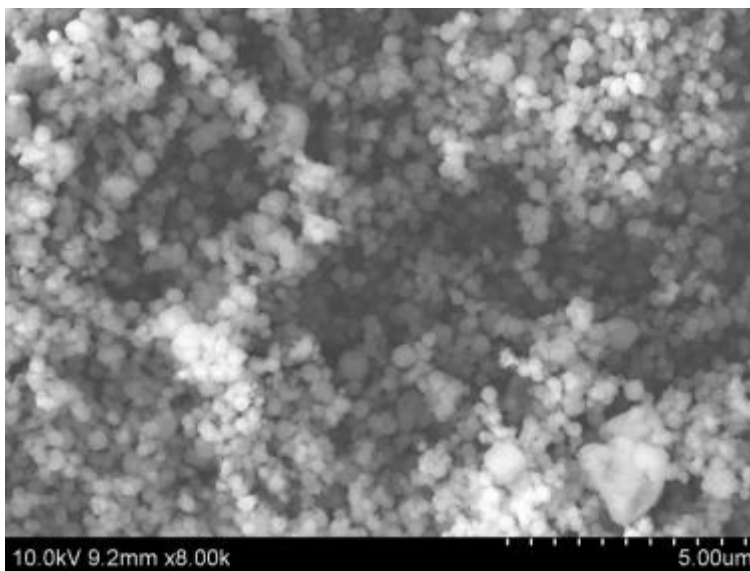
## 1. Preparation Method

Type A: Solvent Thermal Method

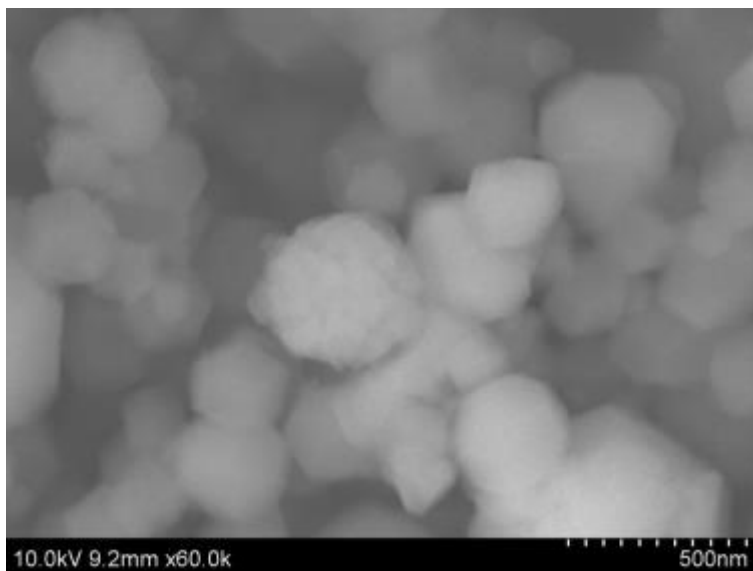
Type B: Solvent Thermal Method + Dried at 150°C for 8 hrs

## 2. Characterizations

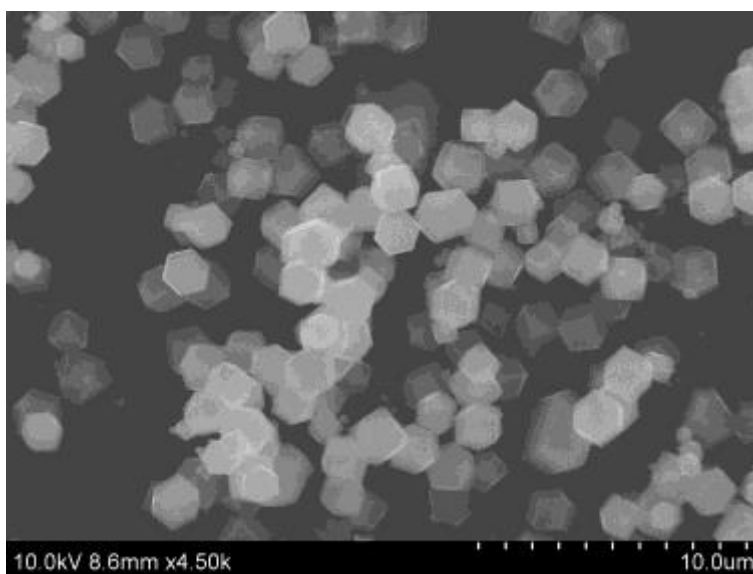
<b>Type:</b>	Type A	Type B
<b>Form:</b>	Metal Organic Frameworks (MOFs)	Metal Organic Frameworks (MOFs)
<b>Appearance:</b>	Purple Powder	Purple Powder
<b>Particle size:</b>	150-400 nm	1.7 $\mu\text{m}$
<b>BET surface area (<math>\text{m}^2/\text{g}</math>)</b>	~316	~233
<b>(References):</b>		



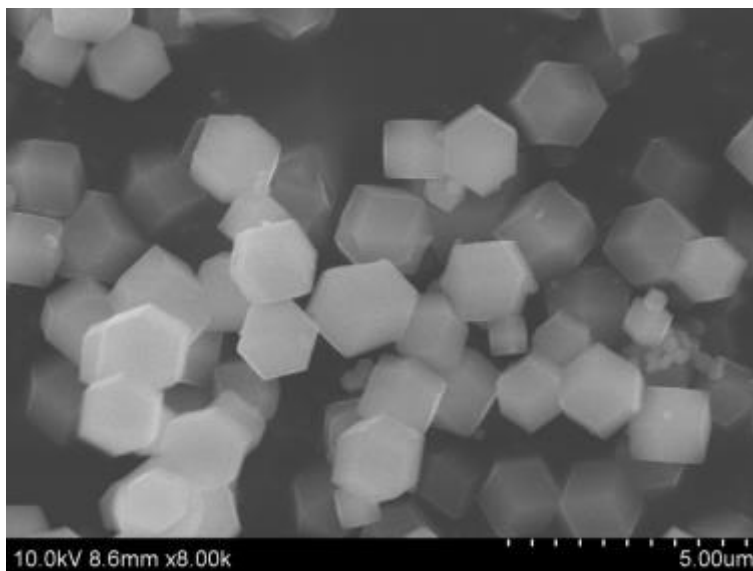
Typical SEM Image of ACS Material ZIF-67 (Type A)



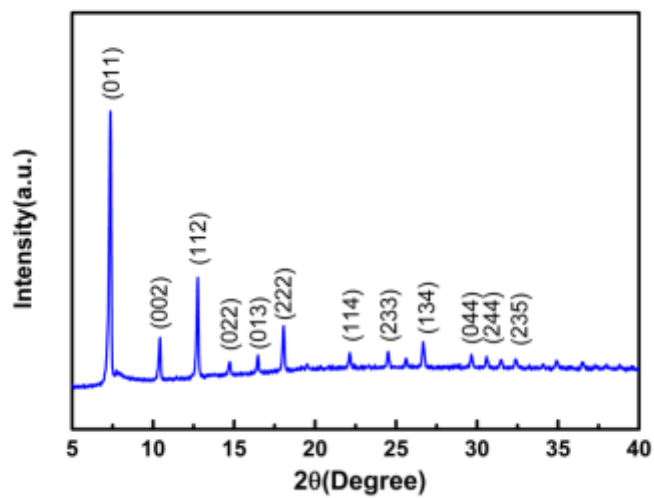
Typical SEM Image of ACS Material ZIF-67 (Type A)



Typical SEM Image of ACS Material ZIF-67 (Type B)



Typical SEM Image of ACS Material ZIF-67 (Type B)



XRD Analysis of ACS Material ZIF-67

### 3. Application Fields

- 1) Metal-organic framework film
- 2) Gas storage
- 3) Gas purification and separation
- 4) Catalysts

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