Technical Data Sheet

ACS Material Metal-Organic Framework Cu-BTC
(HKUST-1)
(BTC=benzene-1,3,5-tricarboxylate)

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Revision: 090717
1. Preparation Method
   Hydrothermal Method

2. Characterizations

<table>
<thead>
<tr>
<th>Form:</th>
<th>Metal Organic Framework (MOF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Octahedron Blue Powder</td>
</tr>
<tr>
<td>Particle size (μm):</td>
<td>10-20</td>
</tr>
<tr>
<td>BET surface area (m²/g):</td>
<td>≥1172</td>
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<tr>
<td>Pore Volume (cm³/g):</td>
<td>0.57</td>
</tr>
<tr>
<td>Pore Size (nm):</td>
<td>0.6</td>
</tr>
</tbody>
</table>

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)
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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