Technical Data Sheet

ACS Material MCM-41
(Type A and Type B)

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

Hydrothermal Method

2. Characterizations

<table>
<thead>
<tr>
<th>Type:</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade:</td>
<td>Reagent Grade</td>
<td>Industrial Grade</td>
</tr>
<tr>
<td>Appearance:</td>
<td>White Powder</td>
<td>White Powder</td>
</tr>
<tr>
<td>Particle Size:</td>
<td>100-1000 nm</td>
<td>200-1000 nm</td>
</tr>
<tr>
<td>Average Pore Diameter:</td>
<td>3.4 nm</td>
<td>3.5-4.0 nm</td>
</tr>
<tr>
<td>BET surface area (m$^2$/g):</td>
<td>&gt;850</td>
<td>&gt;800</td>
</tr>
<tr>
<td>Pore Volume(cm$^3$/g):</td>
<td>≥0.75</td>
<td>≥0.75</td>
</tr>
<tr>
<td>Na$_2$O:</td>
<td>≤0.5%</td>
<td>≤0.5%</td>
</tr>
</tbody>
</table>

TEM Image (1) of ACS Material MCM-41 (Type A)
TEM Image (2) of ACS Material MCM-41 (Type A)

TEM Image (3) of ACS Material MCM-41 (Type A)
BET Analysis of ACS Material MCM-41 (Type A)

TEM Image (1) of ACS Material MCM-41 (Type B)
TEM Image (2) of ACS Material MCM-41 (Type B)

TEM Image (3) of ACS Material MCM-41 (Type B)
3. Application Fields

1) Catalyst
2) Dyes removal
3) Adsorbent

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