Technical Data Sheet

ACS Material Nitrogen-doped Graphitic Porous Carbon

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1. Preparation Method

ZIF-8 as the template:
1) High temperature calcination
2) Acid-washed to remove the zinc component

2. Characterizations

<table>
<thead>
<tr>
<th>Appearance:</th>
<th>Black powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shape:</td>
<td>Hexahedron</td>
</tr>
<tr>
<td>Particle Size (nm):</td>
<td>200-300 nm</td>
</tr>
<tr>
<td>BET surface area (m²/g):</td>
<td>&gt;1100</td>
</tr>
<tr>
<td>Total Pore Volume (cm³/g):</td>
<td>0.74</td>
</tr>
<tr>
<td>Pore Size (nm):</td>
<td>0.3</td>
</tr>
<tr>
<td>N (wt.%):</td>
<td>11</td>
</tr>
</tbody>
</table>

Typical SEM Image of ACS Material N-doped Graphitic Porous Carbon (1)
3. Application Fields

1) Photocatalytic Hydrogen Evolution
2) Pollutant Degradation
3) CO$_2$ reduction
4) Energy Storage
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