Polysilane-supported Palladium Catalysts

Pd / (PSi-Al\(_2\)O\(_3\))

Poly(methylphenyl)silane supported Palladium/Alumina Hybrid Catalyst
1g [P1944]

Advantages

- Applicable to hydrogenation under hydrogen gas flow conditions, Suzuki-Miyaura coupling reactions, Sonogashira coupling reactions, and hydrosilylation\(^1\)
- Hydrogenations of C-C double and triple bonds proceed by using the continuous flow reactor incorporated with P1944-filled column\(^2\)

Pd / (PMPSi-Al\(_2\)O\(_3\))

Polydimethylsilane supported Palladium/Alumina Hybrid Catalyst
1g / 5g [P2280]

Advantages

- Applicable to the continuous flow hydrogenation of aromatic nitro compounds
- No leaching of palladium from P2280 was observed after reaction \(^2\)

Substrate

<table>
<thead>
<tr>
<th>Substrate</th>
<th>Time (h)</th>
<th>Product</th>
<th>Yield (TON)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H(_2) (1.4 eq.) neat, rt, 0.2 mL/min</td>
<td>1.5</td>
<td>14.9 g (2200)</td>
<td></td>
</tr>
<tr>
<td>1.5 Ph(-)CO(_2)Et</td>
<td>18.0 g (2700)</td>
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<td></td>
</tr>
<tr>
<td>1.5 Ph(-)CO(_2)Et</td>
<td>19.4 g (1700)</td>
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<td></td>
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</tbody>
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For further information please refer to our website at www.TCIchemicals.com.