Brij® 58 BioChemica

<table>
<thead>
<tr>
<th><strong>Synonym</strong></th>
<th>Polyethylene Glycol Hexadecylether, Polyethyleneglycol-hexadecylether</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>state of matter</strong></td>
<td>Solid</td>
</tr>
<tr>
<td><strong>CMC</strong></td>
<td>0.077 mM</td>
</tr>
<tr>
<td><strong>Main component</strong></td>
<td>Eicosaethyleneglycolhexadecylether</td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td>nonionic detergent</td>
</tr>
<tr>
<td><strong>Melting range</strong></td>
<td>36 - 40°C</td>
</tr>
<tr>
<td><strong>Formula</strong></td>
<td>C_{56}H_{114}O_{21}</td>
</tr>
<tr>
<td><strong>M</strong></td>
<td>1123.51 g/mol</td>
</tr>
<tr>
<td><strong>CAS-No.</strong></td>
<td>9004-95-9</td>
</tr>
<tr>
<td><strong>HS-No.</strong></td>
<td>34021300</td>
</tr>
<tr>
<td><strong>Storage:</strong></td>
<td>RT</td>
</tr>
<tr>
<td><strong>LGK:</strong></td>
<td>10 - 13</td>
</tr>
<tr>
<td><strong>Disposal:</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>WGK:</strong></td>
<td>2</td>
</tr>
</tbody>
</table>

**® registered trademark of Atlas Chemical Co.**

**Specification**

| **Water (K.F.)** | max. 3 % |

**Literature**

Comment

Brij® 58 is a non-ionic detergent. Incubation of living cells with this detergent produces the so-called cytoskeleton. Proteins leak from the cells after a lag phase, depending on the detergent concentration, time of exposure and cell type (1). During this lag phase, lasting for 30 minutes in erythrocytes, the cytoplasma of the cells stays "intact" in the presence of the permeabilized membrane (3). Enzyme activity may be determined in the presence of Brij® 58. Up to a concentration of 0.5 %, the activity of protein kinase C from membrane fractions can be determined (2), the H⁺-ATPase from plant membranes is activated at a concentration of 0.05 % Brij® 58 (4-6). A stock solution of Brij® 58 is prepared by dissolving e.g. 50 mg/1 ml in hot water. The solution won't become clear.