


Specification

**TEMED**

**A1148**

|                              |   |
|------------------------------|---|
| <b>Refractive Index:</b>     | n20/D 1.417   |
| <b>Physical Description:</b> | Liquid  |
| <b>Product Code:</b>         | A1148   |
| <b>Product Name:</b>         | TEMED   |
| <b>Specifications:</b>       | Assay (GC): min. 99 %<br>Identity (IR): passes test<br>Water (K.F.): max. 1 %       |
| <b>Hazard pictograms</b>     |  |
| <b>UN:</b>                   | 2372  |
| <b>Class/PG:</b>             | 3/II  |
| <b>ADR:</b>                  | 3/II  |
| <b>IMDG:</b>                 | 3/II  |
| <b>IATA:</b>                 | 3/II  |
| <b>WGK:</b>                  | 1   |
| <b>Storage:</b>              | 2-8°C   |
| <b>Signal Word:</b>          | Danger  |
| <b>GHS Symbols:</b>          | GHS02<br>GHS05<br>GHS07   |
| <b>H Phrases:</b>            | H225<br>H302+H332   |

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CEO Joan Roget • Commerzbank Darmstadt • Bank 508 800 50 • Account 0186989900 IBAN DE24 5088 0050 0186 9899 00 • Swiftcode DRESDEFF508 • Finanzamt Darmstadt 07 228 16476 • Register court Darmstadt HRB Nr. 7340

Specification

**TEMED**

**A1148**

|                           |   |
|---------------------------|---|
|                           | H314  |
| <b>P Phrases:</b>         | P210<br>P233<br>P280<br>P301+P330+P331<br>P305+P351+P338  |
| <b>Molecular Formula:</b> | C <sub>6</sub> H <sub>16</sub> N <sub>2</sub>   |
| <b>M:</b>                 | 116.21 g/mol  |
| <b>CAS:</b>               | 110-18-9  |
| <b>EINECS:</b>            | 203-744-6   |
| <b>CS:</b>                | 29212900  |
| <b>Index Nr.:</b>         | 612-103-00-3  |
| <b>Comment</b>            | <p>TEMED was introduced as an enhancer of the polymersitation (cross-linking) of acrylamide and bisacrylamide in gel electrophoresis. It catalysis the formation of free radicals of the initiator of the polymerisation, ammonium persulfate. If gels are degased to remove oxygen, add the TEMED after degasing. The working concentration is 50 µl / 100 ml of gel solution. TEMED is stable (&lt; two years), if it is protected from taking up water. <b>Caution</b>: TEMED is harmful. Handle under a chemical fume hood. Do not breathe fumes!</p> |
| <b>Bibliography</b>       | <p>(1)Needles, H.L. (1970) <i>Anal. Biochem.</i> <b>35</b>, 533-537Effect of solution components on large-pore polyacrylamide gel formation. (2)Ogden, R.C. &amp; Adams, D.A. (1987) <i>Methods Enzymol.</i> <b>152</b>, 61-87Electrophoresis in agarose and acrylamide gels. (3)Gomes, A.V. &amp; Barnes, J.A. (1998) <i>Anal. Biochem.</i> <b>260</b>, 106-108Gel electrophoresis of mini gels.</p>   |
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