

Specification

**Urea for analysis, ACS, molecular biology**

**A1049**

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Solubility:</b>           | 1000 g/L (H <sub>2</sub> O)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Physical Description:</b> | Solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Product Code:</b>         | A1049                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Product Name:</b>         | Urea for analysis, ACS, molecular biology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Specifications:</b>       | <p>DNases/RNases/Proteases: not detectable</p> <p>Assay (from N): min. 99.0 %</p> <p>Assay (Perchl. Ac.): 99.0 - 100.5 %</p> <p>pH (8 M; H<sub>2</sub>O; 20°C): 7.5 - 10.5</p> <p>Heavy metals (as Pb): max. 0.001 %</p> <p>Identity (IR): passes test</p> <p>Melting range: 132 - 135°C</p> <p>Loss on drying: max. 0.5 %</p> <p>Insoluble matter in H<sub>2</sub>O: max. 0.005 %</p> <p>Residue on ignition (as SO<sub>4</sub>): max. 0.01 %</p> <p>Chloride: max. 0.0005 %</p> <p>Sulfate: max. 0.001 %</p> <p>Fe: max. 0.0005 %</p> <p>Zn: max. 0.0005 %</p> <p>Sr: max. 0.0002 %</p> <p>Co: max. 0.0005 %</p> <p>Be: max. 0.0002 %</p> <p>Si: max. 0.0002 %</p> <p>Sn: max. 0.0002 %</p> <p>Cu: max. 0.0005 %</p> <p>Al: max. 0.0002 %</p> <p>Ni: max. 0.0005 %</p> <p>Mn: max. 0.0005 %</p> <p>Tl: max. 0.0002 %</p> <p>Cd: max. 0.0005 %</p> <p>V: max. 0.0002 %</p> |

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|                           |                                                                                                                                                                                                                                                                                                                 |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | Mg: max. 0.0002 %<br>Mo: max. 0.0002 %<br>B: max. 0.0002 %<br>Ba: max. 0.0002 %<br>In: max. 0.0002 %<br>Ag: max. 0.0002 %<br>K: max. 0.0002 %<br>Pb: max. 0.0005 %<br>Pt: max. 0.0002 %<br>Ti: max. 0.0002 %<br>Cr: max. 0.0002 %<br>A (1 cm/8 M in H <sub>2</sub> O)<br>260 nm: max. 0.05<br>280 nm: max. 0.02 |
| <b>WGK:</b>               | 1                                                                                                                                                                                                                                                                                                               |
| <b>Storage:</b>           | RT                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Formula:</b> | NH <sub>2</sub> CONH <sub>2</sub>                                                                                                                                                                                                                                                                               |
| <b>M:</b>                 | 60.06 g/mol                                                                                                                                                                                                                                                                                                     |
| <b>CAS:</b>               | 57-13-6                                                                                                                                                                                                                                                                                                         |
| <b>EINECS:</b>            | 200-315-5                                                                                                                                                                                                                                                                                                       |
| <b>CS:</b>                | 31021019                                                                                                                                                                                                                                                                                                        |
|                           |                                                                                                                                                                                                                                                                                                                 |

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