Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-RM-19883-01-00 according to the DIN EN ISO 17034:2017


Holder of certificate:

LGC Labor GmbH
Bürgermeister-Schlosser-Straße 6A, 86199 Augsburg

Reference material production in the fields:

reference materials and certified reference materials in the form of organic pure substances;
reference materials and certified reference materials in the form of single and multi-component solutions of organic pure substances;

Abbreviations used: see last page

This document is a translation. The definitive version is the original German annex to the accreditation certificate.
1 Reference materials and certified reference materials of organic pure substances

<table>
<thead>
<tr>
<th>Product</th>
<th>Characteristic</th>
<th>Range (mass %)</th>
<th>Relative uncertainty in % *</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pure organic substances</td>
<td>Identity</td>
<td>-</td>
<td>-</td>
<td>GC/MS, LC/MS, IR-, UV-NMR-spectroscopy, melting point</td>
</tr>
<tr>
<td></td>
<td>Assay</td>
<td>&gt; 50</td>
<td>0.3 - 2.0</td>
<td>GC, HPLC, quantitative NMR, Karl-Fischer-Titration, Titrations, CS₂-determination</td>
</tr>
</tbody>
</table>

* Expanded combined uncertainty (k = 2 for a confidence interval of 95%)

2 Reference materials and certified reference materials of single and multi-component solutions of organic pure substances

<table>
<thead>
<tr>
<th>Product</th>
<th>Characteristic</th>
<th>Range</th>
<th>Relative uncertainty in % *</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single and multi-component solutions of pure organic substances</td>
<td>Concentration</td>
<td>0.1 – 100000 ng / μl</td>
<td>2 - 10</td>
<td>Gravimetric production with high precision weighing, outgoing from characterized starting materials (Test instruction LGC-PA-01), verified by determination of the concentration</td>
</tr>
</tbody>
</table>

* Expanded combined uncertainty (k = 2 for a confidence interval of 95%)

Abbreviations used:

ISO International Organization for Standardization
EN European Standard
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LGC-PA House method of LGC Labor GmbH