

# Deutsche Akkreditierungsstelle GmbH

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

Period of validity: 14.09.2018 to 13.09.2023

Date of issue: 14.09.2018

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

**1 Reference materials and certified reference materials of organic pure substances**

Product	Characteristic	Range (mass %)	Relative uncertainty in % *	Method
Pure organic substances	Identity	-	-	GC/MS, LC/MS, IR-, UV-NMR-spectroscopy, melting point
	Assay	> 50	0,3 - 2,0	GC, HPLC, quantitative NMR, Karl-Fischer-Titration, Titrations, CS <sub>2</sub> -determination

\* 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**

Product	Characteristic	Range	Relative uncertainty in % *	Method
Single and multi-component solutions of pure organic substances	Concentration	0,1 – 100000 ng / µl	2 - 10	Gravimetric production with high precision weighing, outgoing from characterized starting materials (Test instruction LGC-PA-01), verified by determination of the concentration

\* 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