

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-RM-20519-01-00 according to DIN EN ISO 17034:2017

Valid from: 25.02.2019

Date of issue: 25.02.2019

Holder of certificate:

**Honeywell Specialty Chemicals Seelze GmbH
HYDRANAL Center of Excellence
Wunstorfer Straße 40, 30926 Seelze**

Reference material production in the fields:

**certified reference materials in the form of liquid and solid water standards for the
Karl-Fischer-Titration**

**The reference material producer maintains an up-to-date list of certified reference materials in the
accredited area**

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Abbreviations used: see last page

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
<https://www.dakks.de/en/content/accredited-bodies-dakks>*

Product	Measured quantity	Measuring range	Relative uncertainty ¹⁾	Standard methods for the determination of the reference values
Liquid water standards matrix: organic solvents or mixtures	mass fraction water	0.08 – 0.5 mg/g	10 %	Using a single reference measurement procedure in a single laboratory (coulometric Karl Fischer Titration)
		0.5 – 5.0 mg/g	1.5 %	Using a single reference measurement procedure in a single laboratory (coulometric Karl Fischer Titration)
		8.0 - 12.0 mg/g	2.5 %	Using a single reference measurement procedure in a single laboratory (volumetric Karl Fischer Titration)
Solid water standards matrix: organic pure substances or mixtures	mass fraction water	10 – 200 mg/g	1 %	Using a single reference measurement procedure in a single laboratory (volumetric Karl Fischer Titration)

¹⁾ Expanded combined uncertainties based on a confidence interval of 95 % and the coverage factor $k = 2$. The % data refer to the mass fraction of water in the RM.

Abbreviations used:

DIN	Deutsches Institut für Normung e. V.
DIN EN	German takeover of European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization

Abbreviations used: see last page

Valid from: 25.02.2019

Date of issue: 25.02.2019