

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-RM-15184-01-00 according to DIN EN ISO 17034:2017

Valid from: 11.07.2022 Date of issue: 11.07.2022

Holder of accreditation certificate:

Hach Lange GmbH Königsweg 10, 14163 Berlin

The reference material producer meets the minimal requirements of DIN EN ISO 17034:2017 and, if applicable, additional legal and normative requirements, including those in relevant sectoral schemes, in order to carry out the conformity assessment activities listed below.

The management system requirements of DIN EN ISO 17034 are written in the language relevant to the operations of reference material producers and confirm generally with the principles of DIN EN ISO 9001.

Reference material production in the fields:

- Conductivity standard solutions
- pH reference solutions

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

This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at https://www.dakks.de.



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Product	Measuring range / marging	Expanded uncertainty of measurement (k = 2)	1. Characterisation strategy
pH reference solution	1.5 to 11 (25°C)	0.006	d)
pH reference solution	> 11 to 13 (25°C)	0.03	d)
Conductivity standard solutions	1.5 mS m ⁻¹ to 4.0 mS m ⁻¹ (25°C)	2 %	d)
Conductivity standard solutions	> 4.0 mS m ⁻¹ to 150 mS m ⁻¹ (25°C)	0.35 %	d)
Conductivity standard solutions	>150.0 mS m ⁻¹ to 12000 mS m ⁻¹ (25°C)	0.3 %	d)

Certified reference materials in the fields conductivity standard solutions and pH reference solutions

d) Value transfer from an RM to a closely matched RM using a single measurement procedure perfomed by one laboratory.

Abbreviations used:

- DIN Deutsches Institut für Normung e.V.
- EN European Standard
- ISO International Organisation for Standardization