



Certificate of Analysis

pH Buffer Standard

DIN Buffer Standard pH 1.679 ± 0.010 @ 25°C

 Product No:
 101679
 Date of Measurement:
 15/05/2025

 Lot No:
 167725E1
 Date of Sample Receipt:
 15/05/2025

 Expiry Date*:
 28/05/2027
 Date of Manufacture*:
 15/05/2025

Specification: Mean Measured Value:

1.669 - 1.689 @ 25°C 1.681 pH @ 25°C

Method:

The result reported above was determined by analysis of a sample of this lot taken at time of manufacture. Test Method used was TPPHB. Measured with a combination glass electrode after multiple point calibration with reference materials. This certificate relates solely to the sample as received by the laboratory, bearing the product code and lot number given above. The uncertainty of measurement has been calculated not to exceed ± 0.015pH at 95% confidence level, i.e. coverage factor k =2.

Metrological Traceability:

The test result is traceable to Standard Reference Material of National Institute of Standards and Technology (USA), SRM 189c Potassium Tetraoxalate and SRM 185i Potassium Hydrogen Phthalate.

Compliance:

This Test Method is in accordance with IUPAC Recommendations 2002 Measurement of pH. Definition, Standards and Procedures.

Accreditation:

Reagecon Diagnostics Ltd. is accredited to ISO 17025 by the American Association for Laboratory Accreditation, under scope 6739.03, for the test method, TPPHB, used to generate the above result. This accreditation deems Reagecon competent on a quality systems level and a technical level to perform the tests on the scope of accreditation. Reagecon has the Quality Management Systems in place to ensure that each individual test result generated using TPPHB is technically valid and is supported by appropriate uncertainty measurements.

Date of Issue of the Certificate:

15/05/2025

QC Laboratory Techinician

Jamilla

PILI Jashil

All raw materials used to prepare this product are of high purity.

*The detail above is based on information supplied in writing by Reagecon Manufacturing.

Tested by Reagecon Quality Control Laboratories for Reagecon Manufacturing

This Certificate must not be reproduced except in full. Rev-QL001



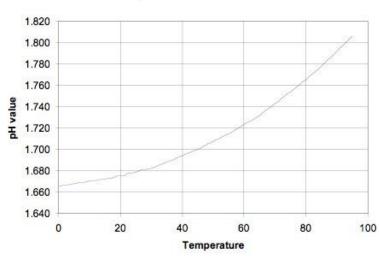


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pH 1.679 at 25°C



TEMP. ('C)	PH VALUE	TEMP. ('C)	PH VALUE	TEMP. ('C)	RH VALUE
0	1.666	33	1.686	66	1.734
1	1.666	34	1.687	67	1.736
2	1.667	35	1.688	68	1.739
3	1.667	36	1.689	69	1.741
4	1.668	37	1.690	70	1.743
5	1.668	38	1.692	71	1.745
6	1.668	39	1.693	72	1.747
7	1.669	40	1.694	73	1.750
8	1.669	41	1.695	74	1.752
9	1.670	42	1.697	75	1.754
10	1.670	43	1.698	76	1.756
11	1.671	44	1.699	77	1.758
12	1.671	45	1.700	78	1.761
13	1.672	46	1.702	79	1.763
14	1.672	47	1.703	80	1.765
15	1.672	48	1.704	81	1.768
16	1.673	49	1.706	82	1.770
17	1.673	50	1.707	83	1.773
18	1.674	51	1.709	84	1.775
19	1.675	52	1.710	85	1.778
20	1.675	53	1.712	86	1.781
21	1.675	54	1.713	87	1.783
22	1.677	55	1.715	88	1.786
23	1.678	56	1.716	89	1.789
24	1.678	57	1.718	90	1.792
25	1.679	58	1.720	91	1.795
26	1.680	59	1.722	92	1.798
27	1.681	60	1.723	93	1.800
28	1.681	61	1.725	94	1.803
29	1.682	62	1.727	95	1.806
30	1.682	63	1.728	7.0.50	
31	1.683	64	1.730		
32	1.685	65	1.732		





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Certificate of Conformity and Traceability pH 1.679 ±0.010 (k=2) - 25°C

Traceability:

Traceable to NIST pH scale. Certified Reference material from National Institute of Standards & Technology (NIST) - Nominal value pH 1.677 @ 25°C. The exact value of this standard was determined with an expanded uncertainty of ± 0.002pH by NIST using a standard Hydrogen Electrode Apparatus.

Certified Value:

pH 1.679 ±0.010 (k=2) - 25°C The limits of expanded uncertainty are given to guarantee a confidence level of ~95% (k=2). This uncertainty reflects the combined effects of measurement errors, operator errors and equipment errors.

When stored under Good Laboratory practice the certified value is valid for the extent of the products shelf life whether opened or unopened.

Measurement

The certified value was determined by measurements of samples with dedicated electrodes under thermostated conditions using a high-resolution meter traceable to primary standards.

Composition:

Potassium Tetraoxalate 50mmol/L Added germicide < 0.01%

Formulation:

Specified by NIST, IUPAC and DIN19266.

Preparer:

Reagecon Diagnostics Ltd.

Intended Use:

Standard pH solution for calibration of pH measurement chains.

Preparation of standard:

Potassium Tetraoxalate, puriss p.a., was dissolved and mixed without loss in purified water. Germicide was added. The solution was protected from evaporation and contamination until bottling.

Storage:

Before use: store in unopened bottle.

After opening: store in capped bottle in normal atmospheric conditions at a temperature between 5°C and 30°C.

Recommended Use:

First use: Write the opening date on the bottle using an indelible pen or appropriate label.

Use a clean dry beaker for taking an aliquot for calibration and cap bottle as soon as aliquot is taken.

Never pour the used aliquot back into the bottle. Always follow Good Laboratory Practice.

For accurate measurements at a temperature other than 25°C, refer to the table above when calibrating your meter.