pH BUFFER SOLUTIONS

GENERAL DATA



Standard buffer solutions

Standard buffer solution	pH value (25 °C)		Type according to DIN 19266
PL 2	1.679	± 0.02	A
PL 4	4.006	± 0.02	C
PL 7	6.865	± 0.02	D
PL 9	9.180	± 0.02	F
PL 12	12.454	± 0.05	G

WTW Technical buffer solutions

WTW Technical buffer solution	pH value (25 °C)	
TEP 2, TPL 2, STP 2	2.00	± 0.04
TEP 4, TPL 4, STP 4	4.01	± 0.03
TEP 7, TPL 7, STP 7	7.00	± 0.03
TEP 10 TRACE, TPL 10 TRACE, STP 10 TRACE	10.01	± 0.03

Purity grade

Buffer substances: For analysis (p.a.)

Conductivity

Water used: < 2 µS/cm

Minimum shelf life

The minimum shelf life of the unopened bottle is printed on the bottle label. It is also part of the complete lot number.
Example: 04.18-3 --> use before April 2018 - lot 3

More data

See manufacturers' certificates at www.xylemanalytics.com

pH BUFFER SOLUTIONS

Standard buffer solutions in double spit ampoules

Standard buffer solution in double spit ampoules	pH value (25 °C)		Type according to DIN 19266
STAPL 4/79	4,006	± 0,01	C
	6,865	± 0,01	D
	9,180	± 0,01	F
QSC Kit	4,006	± 0,01	C
	6,865	± 0,01	D
	9,180	± 0,01	F

Purity grade

Buffer substances: For analysis (p.a.)

Conductivity

Water used: < 5 µS/cm

Minimum shelf life

The minimum shelf life of the steam sterilized buffers in unopened condition is 5 years.

Lot designation: YYMMDD/A ….Z

Example: 210302/A:
Production date 02.03.2021, lot A.

More data

See manufacturers' certificates at www.xylemanalytics.com

GENERAL INFORMATION for dealing with buffer solutions

- Never put the pH electrode into the supply bottle.
  Always fill a small quantity of the solution into a clean calibration vessel or use the dosing cap of the WTW buffer bottles.
- Do not use any remnants of alkaline buffer solutions.
- Dispose of the buffer solutions after using them.
  Do not fill them back into the supply bottle.
- For storing, close the supply bottle properly.
- Once the buffer bottles are opened, use the contents speedily (neutral and acidic buffers within the next month, alkaline buffers within the next few days). Therefore, use suitable bottle sizes.
- For calibration conforming to standards, filter the standard buffer solution PL 12 prior to use. If the filtered solution becomes turbid, dispose of it.
- Store the buffer solutions at room temperature (15 - 25 °C).

pH BUFFER SOLUTIONS