

VWR® pH buffer standard solutions



Buffer solutions

- A complete range of buffer solutions from 1,68 to 10,01 certified at 25 °C conforming to Reag. Ph. Eur.
- A complete range of buffers solutions from 1,00 to 12,00 certified at 20 °C
- Buffer and checking solution kits
- Variety of pack sizes/pack types: 30 ml up to 20 l, ampoules, sachets, bottles, bag-in-box and bulk packs
- Variety of formats: Ready to use solutions, concentrates, pellets and capsules
- Manufactured from analytical grade products to an accuracy of 0,02 pH unit (pH 1 to 11) or 0,05 pH unit (pH 12)
- Labelled with minimum shelf life/batch number
- Traceable to SRM from NIST
- Produced and certified in accordance with ISO 17034 and ISO/IEC 17025. All information regarding the use of this CRM can be found on the certificate of analysis.
- Double-neck dosing bottles for extra convenience



COLOUR KEY BUFFER SOLUTIONS

For easy identification of buffer concentration

Description	Buffer contains	Pk	Packaging type*	Cat. No.
pH 4 (red coloured)	Potassium hydrogenphthalate	500 ml	PB	32044.268
		1 l	PB	32044.292
pH 7 (green coloured)	Potassium di-hydrogenphosphate / di-Sodium hydrogenphosphate	500 ml	PB	32045.262
		1 l	PB	32045.295
		5 l	BB	32045.375
pH 9 (blue coloured)	Boric acid/potassium chloride / sodium hydroxide	500 ml	PB	32046.265
		1 l	PB	32046.298
pH 10 (yellow coloured)	Boric acid/potassium chloride / sodium hydroxide	5 l	BB	32046.378
		500 ml	PB	85680.260
Set pH 4, 7 and 10	-	1 l	PB	85680.295
		3x100 ml	SE	83610.600
		3x250 ml	SE	83610.610



COLOURED BUFFER DOSING BOTTLES

Packed in an innovative twin neck 1 l bottle, the buffer stock is protected from contamination once the bottle is open, while the correct amount is dispensed into the calibration chamber for use.

- Better buffer stability when the bottle is opened
- Traceability to SRM from NIST
- Analysed by an accredited control lab ISO EN 17025
- Easy to carry, ideally suited for field work
- No additional containers needed, less waste

Description	Packaging type*	Cat. No.
pH 4 (red coloured)	DB	32044.290
pH 7 (green coloured)	DB	32045.290
pH 9 (blue coloured)	DB	32046.290
pH 10 (yellow coloured)	DB	85680.290

*Packaging type abbreviations

BB: Bag-in-box PB: Plastic bottle VI: Vial (plastic)
 DB: Dosing bottle PC: Plastic container SE: Set

BUFFERS IN 30 ML SACHETS

There is nothing to mix or measure; just take and open one sachet and your fresh solution is 'ready to use'. Our buffer sachets are perfect for the field and lab since no extra glassware or measuring devices are needed, and nothing needs to be washed. These Single-dose sachets ensure that you have just the right amount of solution every time, preventing cross-contamination of your samples.

- Available in boxes of 30x30 ml sachets (pH 4, 7, 9, 10 and mixes 4, 7, 9 or 4, 7, 10)
- Freshness sealed
- Easy to use, pocket size, reliable and accurate
- Traceability to NIST
- Analysed by an independent accredited control lab ISO EN 17025
- Batch-specific Certificates of Analysis included in each pack showing measurement uncertainty, pH values at various T°, expiry dates and traceability to NIST



Buffer solution pH @ 20 °C	Pk	Cat. No.
Single buffer types in packs of 30		
2	30x30 ml	85937.001
4	30x30 ml	85041.001
6	30x30 ml	85938.001
7	30x30 ml	85042.001
9	30x30 ml	85043.001
10	30x30 ml	85044.001
11	30x30 ml	85950.001
12	30x30 ml	85951.001
Mixed packs 10 sachets of each pH		
4, 7 and 9	30x30 ml	85045.001
4, 7 and 10	30x30 ml	85046.001



READY TO USE PH BUFFERS @ 20 AND 25 °C AVS® TITRINORM®

- Traceable to SRM (Standard Reference Materials) from NIST
- Analysed by an independent accredited control lab ISO EN 17025 for pH 4,00 to 10,00
- Batch number and packing date for traceability
- Certificate of Analysis available on vwr.com
- Buffers @ 25 °C conform to Reag. Ph. Eur.

Buffers @ 25 °C

Description	Pk	Packaging type*	Cat. No.
pH 1,68	500 ml	PB	85506.260
pH 4,01	500 ml	PB	85511.260
pH 6,86	500 ml	PB	85515.260
pH 7,41	500 ml	PB	85516.260
pH 9,18	500 ml	PB	85517.260
pH 10,01	500 ml	PB	85518.260

Buffers @ 20 °C

Description	Buffer contains	Pk	Packaging type*	Cat. No.
pH 1	Glycine / sodium chloride / hydrochloric acid	1l	PB	32031.297
pH 2	Citric acid / sodium hydroxide / hydrochloric acid	1l	PB	32032.291
pH 3	Citric acid / sodium hydroxide / hydrochloric acid	1l	PB	32033.294
pH 4	Potassium hydrogen phthalate	100 ml	PB	32095.184
		500 ml	PB	32095.264
		1l	PB	32095.297
		5 l	PC	32095.366
		5 l	BB	32095.377
pH 4,66	Acetic acid / sodium acetate	500 ml	PB	98192.260
pH 5	Citric acid / sodium hydroxide	1l	PB	32035.291
pH 6	Citric acid / sodium hydroxide	1l	PB	32036.294
pH 6,88	Potassium di-hydrogenphosphate / di-Sodium hydrogenphosphate	500 ml	PB	98192.260
		1l	PB	83601.290
		100 ml	PB	32096.187
	Potassium di-hydrogenphosphate / di-Sodium hydrogenphosphate	500 ml	PB	32096.267
		1l	PB	32096.291
		5 l	PC	32096.360
pH 7		5 l	BB	32096.371
		10 l	BB	32096.400
pH 8	Di-Sodium tetraborate / hydrochloric acid	1l	PB	32038.291
pH 9	Boric acid / potassium chloride / sodium hydroxide	500 ml	PB	32039.261
		1l	PB	32039.294
		5 l	BB	32039.374
pH 9,22	Di-Sodium tetraborate	500 ml	PB	32097.261
		1l	PB	32097.290
pH 10	Boric acid / potassium chloride / sodium hydroxide	100 ml	PB	32040.185
		500 ml	PB	32040.260
		1l	PB	32040.298
pH 10 for total hardness	Ammonia / ammonium chloride / EDTA 2S Mg	500 ml	PB	32040.378
pH 11	Di-Sodium hydrogenphosphate / sodium hydroxide	1l	PB	32041.292
pH 12	Di-Sodium hydrogenphosphate / sodium hydroxide	1l	PB	32042.295

BUFFER SOLUTIONS, SECONDARY STANDARDS

- Solution standardised @ 25 °C
- Accurate to ±0,01 pH units (except pH 10 with 0,05 pH units)
- Traceable to NIST, DIN 19266 and IUPAC
- ISO 17025 compliant
- T° dependence data is printed on the labels as are batch number and expiry date
- Supplied in 500 ml packs

Description	Packaging type*	Cat. No.
pH 1,679	PB	84580.260
pH 3,776	PB	84581.260
pH 4,005	PB	84582.260
pH 6,865	PB	84583.260
pH 7,413	PB	84584.260
pH 9,18	PB	84585.260
pH 10,012	PB	84586.260
pH 12,454	PB	84587.260

*Packaging type abbreviations

BB: Bag-in-box PB: Plastic bottle VI: Vial (plastic)
DB: Dosing bottle PC: Plastic container SE: Set



SPECIAL BUFFERS

Description	Pk	Packaging type*	Cat. No.
Buffer tablets make 100 ml			
pH 4	50 tablets	PC	331542Q
pH 7	50 tablets	PC	331552S
pH 9,22	50 tablets	PC	331562U
Buffer capsules (10 caps/vial)			
pH 4,01	50 capsules	VI	332732B
pH 7,00	50 capsules	VI	332742D
pH 10,0	50 capsules	VI	332762H

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To find all our standards
download this brochure:



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