



## Buffer solutions, 20 °C AVS TITRINORM®



- Solutions prepared from Analar® NORMAPUR® grade analytical reagents
- True analytical value on the label to an accuracy of  $\pm 0,02$  pH units (pH 1- 10) ( $\pm 0,05$  for pH 12.00 buffer)
- Traceable to SRM from NIST
- Batch number and packing date for traceability
- Certificate of analysis available from [www.vwr.com](http://www.vwr.com)

For full information concerning health and safety data please see the [www.vwr.com](http://www.vwr.com) website.

**Ordering information:** If significantly large volumes are required please contact your local VWR sales office for a customised offer.

Description	pH value	Pk	Cat. No.
<b>Buffer solutions in bottles</b>			
Buffer solution pH 1,00 (20 °C, glycine buffer) $\pm 0,02$ pH units AVS TITRINORM®	1,00	1 l	32031.297
Buffer solution pH 2,00 (20 °C, citrate buffer) $\pm 0,02$ pH units AVS TITRINORM®	2,00	1 l	32032.291
Buffer solution pH 3,00 (20 °C, citrate buffer) $\pm 0,02$ pH units AVS TITRINORM®	3,00	1 l	32033.294
Buffer solution pH 3,00 (20 °C, citrate buffer) $\pm 0,02$ pH units AVS TITRINORM®	3,00	5 l	32033.374
Buffer solution pH 4,00 (20 °C) (potassium hydrogen phthalate) $\pm 0,02$ pH units AVS TITRINORM®	4,00	500 ml	32095.264
Buffer solution pH 4,00 (20 °C) (potassium hydrogen phthalate) $\pm 0,02$ pH units AVS TITRINORM®	4,00	1 l	32095.297
Buffer solution pH 4,00 (20 °C) (potassium hydrogen phthalate) $\pm 0,02$ pH units AVS TITRINORM®	4,00*	5 l	32095.366
Buffer solution pH 4,00 (20 °C) (potassium hydrogen phthalate) $\pm 0,02$ pH units AVS TITRINORM®	4,00**	5 l	32095.377
Buffer solution pH 4,00 (potassium hydrogen phthalate) AVS TITRINORM®	4,00 (red coloured)	500 ml	32044.268
Buffer solution pH 4,00 (potassium hydrogen phthalate) AVS TITRINORM®	4,00 (red coloured)***	1 l	32044.290
Buffer solution pH 4,00 (potassium hydrogen phthalate) AVS TITRINORM®	4,00 (red coloured)	1 l	32044.292
Buffer solution pH 4,66 (20 °C) (acetic acid/sodium acetate) $\pm 0,02$ pH units AVS TITRINORM®	4,66	500 ml	98192.260
Buffer solution pH 4,66 (20 °C) (acetic acid/sodium acetate) $\pm 0,02$ pH units AVS TITRINORM®	4,66	1 l	98192.290
Buffer solution pH 5,00 (20 °C, citrate buffer) $\pm 0,02$ pH units AVS TITRINORM®	5,00	1 l	32035.291
Buffer solution pH 6,00 (20 °C, citrate buffer) $\pm 0,02$ pH units AVS TITRINORM®	6,00	1 l	32036.294
Buffer solution pH 6.88 (20 °C) (Potassium dihydrogen phosphate/disodium hydrogen phosphate) $\pm 0,02$ pH units AVS TITRINORM®	6,88	500 ml	83601.260
Buffer solution pH 6.88 (20 °C) (Potassium dihydrogen phosphate/disodium hydrogen phosphate) $\pm 0,02$ pH units AVS TITRINORM®	6,88	1 l	83601.290
Buffer solution pH 7,00 (20 °C) (potassium dihydrogen phosphate/disodium hydrogen phosphate) $\pm 0,02$ pH units AVS TITRINORM®	7,00	500 ml	32096.267
Buffer solution pH 7,00 (20 °C) (potassium dihydrogen phosphate/disodium hydrogen phosphate) $\pm 0,02$ pH units AVS TITRINORM®	7,00	1 l	32096.291
Buffer solution pH 7,00 (20 °C) (potassium dihydrogen phosphate/disodium hydrogen phosphate) $\pm 0,02$ pH units AVS TITRINORM®	7,00*	5 l	32096.360
Buffer solution pH 7,00 (20 °C) (potassium dihydrogen phosphate/disodium hydrogen phosphate) $\pm 0,02$ pH units AVS TITRINORM®	7,00**	5 l	32096.371
Buffer solution pH 7,00 (20 °C) (potassium dihydrogen phosphate/disodium hydrogen phosphate) $\pm 0,02$ pH units AVS TITRINORM®	7,00	10 l	32096.400
Buffer solution pH 7,00 (20 °C) (potassium hydrogen phthalate/disodium hydrogen phosphate) $\pm 0,02$ pH units AVS TITRINORM®	7,00 (green coloured)	500 ml	32045.262
Buffer solution pH 7,00 (20 °C) (potassium hydrogen phthalate/disodium hydrogen phosphate) $\pm 0,02$ pH units AVS TITRINORM®	7,00 (green coloured)***	1 l	32045.290
Buffer solution pH 7,00 (20 °C) (potassium hydrogen phthalate/disodium hydrogen phosphate) $\pm 0,02$ pH units AVS TITRINORM®	7,00 (green coloured)	1 l	32045.295
Buffer solution pH 7,00 (20 °C) (potassium hydrogen phthalate/disodium hydrogen phosphate) $\pm 0,02$ pH units AVS TITRINORM®	7,00 (green coloured)	5 l	32045.375
Buffer solution pH 8,00 (20 °C, borate buffer) $\pm 0,02$ pH units AVS TITRINORM®	8,00	1 l	32038.291
Buffer solution pH 9,00 (20 °C, borate buffer) $\pm 0,02$ pH units AVS TITRINORM®	9,00	500 ml	32039.261
Buffer solution pH 9,00 (20 °C, borate buffer) $\pm 0,02$ pH units AVS TITRINORM®	9,00	1 l	32039.294
Buffer solution pH 9,00 (20 °C, borate buffer) $\pm 0,02$ pH units AVS TITRINORM®	9,00	5 l	32039.374
Buffer solution pH 9,00 (boric acid/potassium chloride/sodium hydroxide) AVS TITRINORM®	9,00 (blue coloured)	500 ml	32046.265
Buffer solution pH 9,00 (boric acid/potassium chloride/sodium hydroxide) AVS TITRINORM®	9,00 (blue coloured)***	1 l	32046.290
Buffer solution pH 9,00 (boric acid/potassium chloride/sodium hydroxide) AVS TITRINORM®	9,00 (blue coloured)	1 l	32046.298
Buffer solution pH 9,00 (boric acid/potassium chloride/sodium hydroxide) AVS TITRINORM®	9,00 (blue coloured)	5 l	32046.378
Buffer solution pH 9,22 (20 °C, borate buffer) $\pm 0,02$ pH units AVS TITRINORM®	9,22	500 ml	32097.261
Buffer solution pH 9,22 (20 °C, borate buffer) $\pm 0,02$ pH units AVS TITRINORM®	9,22	1 l	32097.290
Buffer solution pH 10 (boric acid/sodium hydroxide/potassium chloride) AVS TITRINORM®	10,00	1 l	32040.298
Buffer solution pH 10 (boric acid/sodium hydroxide/potassium chloride) AVS TITRINORM®	10,00	5 l	32040.378
Buffer ammonia solution pH 10 (20 °C) $\pm 0,05$ pH units AVS TITRINORM® (NFT 90-003 standard)	10,00 (total hardness in water)	500 ml	98213.260
Buffer solution pH 11,00 (20 °C) (disodium hydrogen phosphate/sodium hydroxide) $\pm 0,05$ pH units AVS TITRINORM®	11,00	1 l	32041.292
Buffer solution pH 12,00 (20 °C) (disodium hydrogen phosphate/sodium hydroxide) $\pm 0,05$ pH-units AVS TITRINORM®	12,00	1 l	32042.295

Continued on next page