

Material 85516.260  
Material description Buffer solution pH 7.41  
Grade

## Additional information

Characteristics	Specifications
pH (25°C) (tolerance $\pm 0.02$ )	7,39 - 7,43
pH laboratory uncertainty	$\pm 0.005$ (k=1)
pH homogeneity uncertainty	$\pm 0.000$ (k=1)
pH stability uncertainty	$\pm 0.002$ (k=1)
pH expanded, combined uncertainty	$\pm 0.02$ (k=2; 95 %)

## Signature

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## Certified Reference Material ISO 17034



Accreditation N°: 542-RM  
VWR International BVBA  
Geldenaaksebaan 464  
BE-3001 Leuven, Belgium  
Coverage available on: [www.belac.be](http://www.belac.be)

## Additional information

pH-Method: pH value is analyzed with a glass electrode after 4-point calibration following the validated standard procedure. The expanded uncertainty relevant for the user contains contributions of bottle to bottle variation (inhomogeneity), stability over time and laboratory measurement uncertainties as shown above and using a coverage factor k=2 for a 95 % coverage probability.

Preparation and use: This reference material is prepared gravimetrically from potassium di-hydrogen phosphate, di-sodium hydrogen phosphate and high purity water. It is intended to be used for calibrating pH measurement devices. The minimum sample size for use is 17.5 ml.

Accreditation: VWR International BVBA is accredited as reference material producer according to ISO 17034. The batch homogeneity has been proven by analyzing minimum 6 samples distributed over the entire production process.

The pH of this buffer solution is traceable to and verified against primary Standard Reference Materials (SRM) from National Institute of Standards and Technology (NIST): SRM 186 I + II and SRM 187.

Store at +2°C to +25°C tightly closed in the original container under nitrogen. Keep this reference material always under nitrogen. Consume within 4 weeks after first opening.