

## **Product Specification**

Material

Material description

Grade

85680,290

Buffer solution pH 10 yellow coloured

Additional information

Characteristics	Specifications

pH (20°C) (tolerance  $\pm$  0.02) 9.98 --> 10.02 pH laboratory uncertainty  $\pm$  0.010 (k=1) pH homogeneity uncertainty  $\pm$  0.003 (k=1) pH stability uncertainty  $\pm$  0.025 (k=1) pH expanded, combined uncertainty  $\pm$  0.06 (k=2; 95 %)

## **Signature**

This document has been produced electronically and is valid without a signature.

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## SO/IEC 17025 CALIBRATION ACCREDITATION NBN EN ISO/IEC 17025:2005 Nº: 542-CAL WWR International BVBA Quality Control Laboratory Geldenaaksebaan 464 BE-3001 Leuven, Belgium

Coverage available on: www.belac.be

## **Additional information**

pH-Method: pH value is analyzed with a glass electrode after 4-point calibration following the validated standard procedure of ISO/IEC 17025 accreditation. 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: This reference material is prepared gravimetrically from sodium hydrogen carbonate, sodium carbonate and high purity water.

Accreditation: VWR International BVBA is accredited as calibration laboratory according to ISO/IEC 17025. The batch homogeneity has been proven by analyzing minimum 6 samples distibuted over the entire production process. The expiry date is not part of the accreditation.

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 187e, SRM 191d I + II.

Store at +2°C to +25°C tightly closed in the original container under nitrogen.

For Professional use in Laboratory or Manufacturing. Not for use as an Active Pharmaceutical Ingredient or Food or Animal Feed. Suitability and intended use of the product remains the responsibility of the use