# Phosphonate

# 0 - 20 mg/L HEDP

### 561700320

#### Material

Reagents	Packaging Unit	Part Number
Phosphonate Neutraliser P1/2	65 mL	56L070465
Phosphonate Indicator P4L	65 mL	56L017565
Phosphonate pH Adjuster P3	65 mL	56L718365
Phosphonate Titrant P5	65 mL	56L017665

The following accessories are required.

Accessories	Packaging Unit	Part Number
Syringe, plastic, 20 mL	1 Pieces	56A006501
Titration jar with cap, plastic, 60 mL	1 Pieces	56A006701

### **Application List**

· Cooling Water

### Remarks

- 1. Carry out the test on the Treated Water (Result A) and then on Untreated Water (Result B).
- 2. Colours may vary depending on sample and test conditions.
- 3. This test is suitable for measuring AMP and HEDP type products.
- 4. Good results have also been obtained with PBSAM.
- 5. For accurate results the test should be calibrated to each product at typical system dose levels.
- Standards should be prepared in water as similar as possible to system water (e.g. hard or soft).
- 7. Add factors into table.
- Samples less than 20 mL should be diluted to approximately 20 mL with deionized water.

# Sampling

Select the sample volume from the table according to the expected measuring range and read off the factor to calculate the result.

Expected Range	Titrant used	Sample Size	Factor	
	Phosphonate Titrant P5			
	Phosphonate Titrant P5			
	Phosphonate Titrant P5			



Fill the jar with **20 mL** of the sample.



Add **sufficient** drops of **Phosphonate Neutraliser P1/2** to give a **yellow** colour.



Swirl to mix.



Add drops of **Phosphonate** Swirl to mix. **pH Adjuster P3** until the sample is colourless .





Add **10 drops Phosphonate** Indicator P4L.



Swirl to mix.

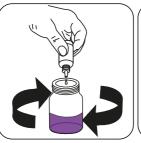


The sample will turn **light** green .



Attention! Record the number of drops that will be added.

**Note:** Make sure to swirl the jar after adding each drop!





Add **Phosphonate Titrant P5** drop by drop to the sample until colouration turns through **grey** to **purple**.

Perform this test with treated (Result A) and untreated water (Result B).

Calculate test result: Product mg/L = Number of drops (result A - result B) x factor (see table)