

Phosphate HR C

M327

1.6 - 13 mg/L P^{c)}

Vanadomolybdate

Instrument specific information

The test can be performed on the following devices. In addition, the required cuvette and the absorption range of the photometer are indicated.

Instrument Type	Cuvette	λ	Measuring Range
MD 600, MD 610, MD 640, MultiDirect, XD 7000, XD 7500	ø 13 mm	430 nm	1.6 - 13 mg/L P°

Material

Required material (partly optional):

Reagents	Packaging Unit	Part Number
Vacu-vial Phosphate Test Kit	1 Set	380460
ValidCheck WW Influent Multistandard NH ₄ -N/COD/TOC/NO ₃ -N/PO ₄ -P/TP	1 pc.	48399712

The following accessories are required.

Accessories	Packaging Unit	Part Number
Adapter for round cuvettes 13 mm Ø	1 pc.	19802192
Adapter (13 mm) MultiDirect for Vacu-vial	1 pc.	192075

Application List

- · Waste Water Treatment
- · Boiler Water
- · Drinking Water Treatment
- · Raw Water Treatment



Notes

- This method is adapted from a product by CHEMetrics. The measuring range and wavelength used for this photometer may differ from the data specified by CHEMetrics.
- Before performing the test, you must read through the original instructions and safety data sheet that is delivered with the test kit (MSDS are also available on the homepage of www.chemetrics.com).
- 3. Vacu-vials® is a registered trademark of the company CHEMetrics, Inc. / Calverton, U.S.A.
- 4. Only ortho-phosphate ions react.



Determination of Phosphate HR, ortho with Vacu Vials® K-8503

Select the method on the device.

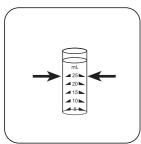


Zero

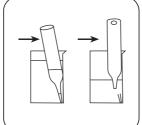
sample chamber.

Place Zero ampoule in the Press the ZERO button.

Remove zero ampoule from the sample chamber.



Fill the sample glass to the 25 mL mark with the sample.



Place a Vacu-vial® ampoule in the sampling vessel. Break off the ampoule tip by applying light pressure against the vessel wall. Wait for the ampoule to fill completely.



Invert the ampoule several times, allowing the bubble to move from one end to the other. Dry the outside.



Place the ampoule in the sample chamber.

Test

Press the **TEST** (XD: START)button.



Wait for 5 minute(s) reaction time.

Once the reaction period is finished, the measurement takes place automatically.

The result in mg/L ortho-Phosphate appears on the display.



Analyses

The following table identifies the output values can be converted into other citation forms.

Unit	Cite form	Scale Factor
mg/l	Р	1
mg/l	PO ₄ 3-	3.066
mg/l	P ₂ O ₅	2.3

Chemical Method

Vanadomolybdate

Appendix

	ø 13 mm
a	-5.56981 • 10 ⁻¹
b	2.94923 • 10+1
С	
d	
е	
f	

Interferences

Persistant Interferences

• Sulphide, thiosulphate, and Thiocyanide produce lower test results.



Interference	from / [mg/L]	
Al	200	
AsO ₄ 3-	in all quantities	
Cr	100	
Cu	10	
Fe	100	
Ni	300	
SiO ₂	50	
Si(OH) ₄	10	
S ²⁻	in all quantities	
Zn	80	

According to

Standard Method 4500-P E

^{c)} MultiDirect: Adapter is necessary for Vacu-vials® (Order code 19 20 75)