

AQUALYTIC® Test Kits

Determination of Boiler-, Cooling- and Industrial Process Water

Highlights

- Fast quantitative determination
- For testing boiler, cooling and industrial process water
- Suitable for field and laboratory testing
- Cost-effective use due to keenly priced refill packs

These AQUALYTIC® test kits are specially developed for testing boiler, cooling and industrial process water. They make use of both colorimetric and titrimetric techniques. Each test kit contains all the necessary chemicals and reagents in liquid or powder form to conduct the tests. The detailed instructions contain a step-by-step explanation of the test procedure. The kits are supplied in a sturdy, compact plastic case. Keenly priced refill reagent packs are available for all AQUALYTIC® test kits.



Analysis	Range mg/l	Method	No. of Tests (approx.)	Order Code
Alkalinity PM-1 (p- + m-value)	1 drop = 1 or 0.5 mmol/l ¹⁾	titrimetric	75	418501
Carbonic Acid CO-2	1 drop = 5 or 2.5 mg/l CO ₂ ¹⁾	titrimetric	70	418518
Chloride LR CD-1	1 drop = 5 or 2.5 mg/l Cl ⁻¹⁾	titrimetric	100	418504
Chloride HR CD-2	1 drop = 50 or 25 mg/l Cl ⁻¹⁾	titrimetric	100	418506
DEHA	0.05 – 1 mg/l DEHA	colorimetric	50	4157580
Hardness Carbonate (new version)	1 drop = 1 or 0.5 °dH* ¹⁾	titrimetric	25	418413
Hardness Carbonate KH-1	1 drop = 1 or 0.5 °dH* ¹⁾	titrimetric	50	418695
Hardness Residual RH-1	1 drop = 0.1 or 0.05 °dH* ¹⁾	titrimetric	50	418694
Hardness Total (new version)	1 drop = 1 or 0.5 °dH* ¹⁾	titrimetric	25	418411
Hardness Total GH-1	1 drop = 1 or 0.5 °dH* ¹⁾	titrimetric	50	418692
Hardness Total (new version) + Carbonate GKH-1	1 drop = 1 or 0.5 °dH* ¹⁾	titrimetric	25	418412
Iron FE-2	0.1 – 2 mg/l Fe, 0.5 – 8 mg/l Fe	colorimetric	250	418440
Phosphate (Total) PO-2 (ortho, poly, organic)	2.5 – 25 mg/l PO ₄ ³⁻	colorimetric	90	418523
Phosphate (ortho) PO-3	2.5 – 25 mg/l PO ₄ ³⁻	colorimetric	70	418544
Sulphite SUL-1	1 drop = 5 or 2.5 mg/l Na ₂ SO ₃ ¹⁾	titrimetric	80	418532
Sulphides Volatile SD-1	0.05 – 5 mg/l S ²⁻	colorimetric	25	418528

* 1.0°dH = 0.18 mmol/l ; 5.6° dH = 1.0 mmol/l

** 1.0° fH = 0.1 mmol/l ; 10° fH = 1.0 mmol/l

¹⁾ depending on sample volume

Complete AQUALYTIC® Test Sets

Analysis	Range mg/l	Method	No. of Tests (approx.)	Order Code
Boiler Water-Set KW-3				
Alkalinity (p + m value)	1 drop = 1 or 0.5 mmol/l ¹⁾	titrimetric	75	418453
Residual Hardness	1 drop = 0.1 or 0.05 °dH* ¹⁾	titrimetric	50	
Phosphate (ortho)	2.5 – 25 mg/l PO ₄ ³⁻	colorimetric	70	
pH-value	pH 7.0 – 14	indicator strips	100	
Sulphite	1 drop = 5 or 2.5 mg/l Na ₂ SO ₃ ¹⁾	titrimetric	80	
Boiler Water-Set KW-5				
Alkalinity (p + m value)	1 drop = 1 or 0.5 mmol/l ¹⁾	titrimetric	75	418457
Conductivity	0 - 2000 µS/cm ; 0 - 20 mS/cm	SD 70 Con		
Residual Hardness	1 drop = 0.1 or 0.05 °dH* ¹⁾	titrimetric	50	
Phosphate (ortho)	2.5 – 25 mg/l PO ₄ ³⁻	colorimetric	70	
pH-value	pH 7.0 – 14	indicator strips	100	
Sulphite	1 drop = 5 or 2.5 mg/l Na ₂ SO ₃ ¹⁾	titrimetric	80	
Drinking- and Industrial Water-Set TB-1				
Carbonate Hardness	1 drop = 1 or 0.5 °dH* ¹⁾	titrimetric	50	418558
Carbonic Acid	1 drop = 5 or 2.5 mg/l CO ₂ ¹⁾	titrimetric	70	
Chloride	1 drop = 5 or 2.5 mg/l Cl ⁻¹⁾	titrimetric	100	
Total Hardness	1 drop = 1 or 0.5 °dH* ¹⁾	titrimetric	50	
Phosphate (ortho)	2.5 – 25 mg/l PO ₄ ³⁻	colorimetric	70	
pH-value, Phenol Red	pH 6.9 – 8.2	colorimetric	50	
Warm Water-Set W-1				
Total Hardness	1 drop = 1 or 0.5 °dH* ¹⁾	titrimetric	50	418455
Phosphate (ortho)	2.5 – 25 mg/l PO ₄ ³⁻	colorimetric	70	
pH-value	pH 0 – 14	indicator strips	100	
Sulphite	1 drop = 5 or 2.5 mg/l Na ₂ SO ₃ ¹⁾	titrimetric	80	

* 1.0° dH = 0.18 mmol/l ; 5.6° dH = 1.0 mmol/l

¹⁾ depending on sample volume

Arsenic Test Kit (highly sensitive)

The arsenic test is due to its high sensitivity suitable for the determination of arsenic in drinking water.

The advantages at one view

- Sensitivity is according to the requirements of the WHO for drinking water quality. This test detects 0.005 mg/l Arsenic.
- The removal of the interfering sulfide ions is integrated in the test procedure. To minimize the potential danger for the user of the test kit it doesn't use the highly toxic lead acetate for the sulfide removal.
- A solid acid substance is used in order to avoid any irritation by a corrosive acid on the user's hands.
- The unbreakable plastic reaction vessel is more convenient and safe for on-site testing.
- During the test procedure the reaction vessel is tightly closed. The developing arsine gas cannot escape and therefore does not harm the user.
- The test kit contains a water-proof colour chart which also includes the brief instruction for use in pictograms. Even if there is a lack of knowledge in foreign languages everybody can now handle the test kit.

Resolution:
0 - 0.005 - 0.01 - 0.025 - 0.05 - 0.1 - 0.25 - 0.5 mg As^{3+/5+}/l

Kit for 100 measurements in case.

Order code: 400700



Arsenic Test Kit, ready to use

Arsenic glass apparatus 370500

delivery content:

Erlenmeyer flask	37 05 01
Glass stopper	37 05 02
Absorption tube	37 05 03

additionally required (not included, please order separately):

W 100, cell, Optical-Glass-OG, 20 mm path length	60 10 50
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