











































































# Applications of Reagents


# Applications of Reagents

Parameter	Reagent	Application	
<b>Acid capacity Ks4.3</b>	ALKA-M-PHOTOMETER		 = Water
<b>Acid concentration</b>	ACID CONCENTRATION		 = Waste Water
<b>Alkalinity-m</b>	ALKA-M-PHOTOMETER		 = Seawater
<b>Alkalinity-p</b>	ALKA-P-PHOTOMETER		 = Boiler Water related
<b>Aluminium</b>	ALUMINIUM No. 1 ALUMINIUM No. 2		 = Pool Water related
<b>Aluminium</b>	VARIO Aluminum ECR/F20 VARIO Aluminum Hexamine/F20 VARIO Aluminum Masking Reagent		RT = Reagent Test KT = Tube Test
<b>Amine</b>	Amine		
<b>Ammonia vario</b>	VARIO Ammonia Salicylate F10 VARIO Ammonia Cyanurate F10		
<b>Ammonia</b>	AMMONIA No. 1 AMMONIA No. 2 Conditioning powder	  	
<b>Ammonia LR</b>	VARIO Ammonia Salicylate F5 VARIO Ammonia Cyanurate F5 VARIO Am Diluent Reagent LR		
<b>Ammonia HR</b>	VARIO Ammonia Salicylate F5 VARIO Ammonia Cyanurate F5 VARIO Am Diluent Reagent HR		
<b>Arsenic (III, IV)</b>	Chemicals see manual		
<b>Boron</b>	BORON No. 1 BORON No. 2		
<b>Bromine</b>	DPD 1 Buffer solution DPD 1 Reagent solution		
<b>Bromine</b>	DPD No. 1 DPD No. 1 HIGH CALCIUM	 	
<b>Cadmium (Cd<sup>2+</sup>)</b>	Spectroquant® 1.14834.0001		
<b>Chloride</b>	CHLORIDE T1 CHLORIDE T2		
<b>Chloride</b>	RT (Chloride-51 / Chloride-52)		
<b>Chlorine</b>	DPD No. 1 RAPID DPD No. 3 RAPID DPD No. 4 RAPID		

Parameter	Reagent	Application	
<b>Chlorine</b>	DPD No. 1		 = Water  = Waste Water  = Seawater  = Boiler Water related  = Pool Water related RT = Reagent Test KT = Tube Test
	DPD No. 3		
	DPD No. 1 HIGH CALCIUM		
<b>Chlorine</b>	DPD 1 Buffer solution DPD 1 Reagent solution DPD 3 Solution		
<b>Chlorine</b>	VARIO Chlorine FREE-DPD/F10 VARIO Chlorine TOTAL-DPD/F10		
<b>Chlorine HR (KI)</b>	ACIDIFYING GP CHLORINE HR (KI)		
<b>Chlorine dioxide</b>	DPD No. 1 DPD No. 3 GLYCINE		
<b>Chlorine dioxide</b>	DPD 1 Buffer solution DPD 1 Reagent solution		
<b>Chromium</b>	PERSULF. RGT FOR CR Chromium Hexavalent		
<b>COD LR</b>	Reaction tube 0-150 mg/l		
<b>COD MR</b>	Reaction tube 0-1500 mg/l		
<b>COD HR</b>	Reaction tube 0-15000 mg/l		
<b>Colour (Spectral Absorption Coefficient)</b>	---		
<b>Copper</b>	COPPER / ZINC LR		
<b>Copper</b>	COPPER / ZINC HR		
<b>Copper</b>	COPPER No. 1 COPPER No. 2		
<b>Copper, free</b>	VARIO Cu 1 F 10		
<b>Cyanide</b>	Reagent test set, consists of: Cyanide-11/ -12 / -13		
<b>Cyanuric acid</b>	CYANURIC ACID		
<b>DEHA</b>	DEHA Solution DEHA		
<b>DEHA</b>	VARIO OXYSCAV 1 Rgt VARIO DEHA 2 Rgt Solution		

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Parameter	Reagent	Application
Fluoride	SPADNS-Reagent Fluoride Standard	
Fluoride	Fluoride A-Z Fluoride Excess Al	
Formaldehyde	Spectroquant® 1.14678.0001	
Formaldehyde	Spectroquant® 1.14500.0001	
Hardness, Calcium	CALCHECK	
Hardness, total	HARDCHECK P	
Hardness, total	Hardness Yes/No	
Hardness, total	T Hardness-Test	
Hardness, total	Total Hardness	
Hazen (Pt-Co-Scale; APHA)	---	
Hydrazine	Hydrazine Test Powder Spoon	
Hydrazine	Vacu-vials® / Chemetrics K-5003	
Hydrogen peroxide	HYDROGENPEROXIDE LR	
Iodine	DPD No. 1	
Iron (II, III) soluble	Vario Ferro F10	
Iron (II, III) soluble	IRON LR IRON (II) LR	
Iron	IRON HR	
Iron (TPTZ)	Vario TPTZ F10	
Lead (Pb <sup>2+</sup> )	Spectroquant® 1.09717.0001	
Lead (Pb <sup>2+</sup> )	Spectroquant® 1.14833.0001	
Manganese	MANGANESE LR 1 MANGANESE LR 2	
Manganese	VARIO Ascorbic Acid VARIO Alkaline-Cyanide VARIO PAN Indicator	
Molybdate	MOLYBDATE No. 1 HR MOLYBDATE No. 2 HR	

 = Water

 = Waste Water























 = Seawater

 = Boiler Water related

 = Pool Water related
























RT = Reagent Test

KT = Tube Test

Parameter	Reagent	Application	
Nickel	RT (Nickel-51, Nickel-52)		 = Water
Nitrate	KT (Nitrate-111)		 = Waste Water
Nitrate	VARIO Nitrate Chromotropic VARIO Nitra X Reagent tube VARIO Deionised water		 = Seawater
Nitrate	NITRITE LR Nitrate Test Tablets Nitrate Test Powder		 = Boiler Water related  = Pool Water related
Nitrate HR	Nitracheck No.1 Nitracheck No.2		RT = Reagent Test KT = Tube Test
Nitrite	KT (Nitrit-101)		
Nitrite	NITRITE LR		
Nitrite	Nitrite No.1 Nitrite No.2		
Nitrogen-total	KT (Reagent for digestion, Reagent for compensation, Nitrat-111)		
Nitrogen, total LR	VARIO TN HYDROX. LR tubes VARIO PERSULFATE Reagent VARIO TN Reagent A VARIO TN Reagent B VARIO TN ACID LR/HR tubes VARIO Deionised water		
Nitrogen, total HR	VARIO TN HYDROX HR tubes VARIO PERSULFATE Reagent VARIO TN Reagent A VARIO TN Reagent B VARIO TN ACID LR/HR tubes VARIO Deionised water		
Oxygen, active	DPD No. 4		
Oxygen, active	INDIGO CARMINE		
Oxygen, dissolved	Vacu-vials® / Chemetrics K-7553		
Ozone	DPD No. 1 DPD No. 3 GLYCINE		
Ozone	Ozone		
Phenoles	Phenole No. 1 Phenole No. 2		

# Applications of Reagents

Parameter	Reagent	Application	
<b>PHMB (Biguanide)</b>	PHMB PHOTOMETER	⊙	⊙ = Water
<b>Phosphate-Organo</b>	ORGANO-PHOSPHONATE No.1 ORGANO-PHOSPHONATE No.2	⊙	⊙ = Waste Water
<b>Phosphate HR</b>	PHOSPHATE HR	⊙	⊙ = Seawater
<b>Phosphate-total* (PMB)</b>	KT (Phosphate-101, Phosphate-102, Phosphate-103)	⊙	⊙ = Boiler Water related
<b>Phosphate-total* (PMB)</b>	KT (Phosphate-101, Phosphate-102, Phosphate-103)	⊙	⊙ = Pool Water related
<b>Phosphate-ortho (VM)</b>	KT	⊙	RT = Reagent Test
<b>Phosphate LR, ortho</b>	PHOSPHATE LR No. 1 PHOSPHATE LR No. 2	⊙	KT = Tube Test
<b>Phosphate HR, ortho</b>	PHOSPHATE HR No. 1 PHOSPHATE HR No. 2	⊙	
<b>Phosphate, ortho</b>	VARIO Phos 3 F10	⊙	
<b>Phosphate, ortho</b>	VARIO Dilution Vial VARIO Phos 3 F10 VARIO Deionised water	⊙	
<b>Phosphate, acid hydrolyzable</b>	Content see: Phosphate, total, set, additional: VARIO Natriumhydroxid 1,00 N	⊙	
<b>Phosphate, total</b>	VARIO Acid Reagent Vial VARIO Phos 3 F10 VARIO Potassium Persulfate VARIO Natriumhydroxid 1,54 N VARIO Deionised water	⊙	
<b>pH value</b>	BROMOCRESOLPURPLE/PHOTOM.	⊙	
<b>pH value</b>	PHENOLRED RAPID	⊙	
<b>pH value</b>	PHENOLRED / PHOTOMETER	⊙	
<b>pH value</b>	PHENOLRED Solution	⊙	
<b>pH value</b>	THYMOLBLUE/PHOTOMETER	⊙	
<b>pH value</b>	METHYL RED	⊙	
<b>pH value</b>	CRESOL RED	⊙	
<b>pH value</b>	BROMOPHENOL BLUE	⊙	
<b>pH value</b>	BROMOCRESOL GREEN	⊙	
<b>pH value</b>	M-CRESOLPURPLE	⊙	
<b>pH value</b>	UNIVERSAL PH	⊙	

Parameter	Reagent	Application	
Potassium	POTASSIUM T		 = Water
QAC	QAC Test		 = Waste Water
QAC LR	QAC LR		 = Seawater
QAC HR	QAC HR		 = Boiler Water related
Silica	SILICA No. 1 SILICA No.2 SILICA PR		 = Pool Water related
Silica	VARIO LR Amino Acid F F10 VARIO Citric Acid F10 VARIO Molybdate 3 Rgt Solution		RT = Reagent Test KT = Tube Test
Silica	VARIO Silica HR Acid Rgt F10 VARIO Silica Citric Acid F10 VARIO Silica Molybdate F10		
Sulphate	SULFATE T		
Sulphate	VARIO Sulpha 4 / F10		
Sulphate	SULFATE No.1 SULFATE No.2		
Sulphide	SULFIDE No. 1 SULFIDE No. 2		
Sulphite	SULFITE LR		
Sulphite	SULFITE No.1 SULFITE No.2 HR SULFITE No.2 LR		
Surfactants (anionic)	Spectroquant® 1.14697.0001		
Tannin	TANNIN No.1 TANNIN No.2		
TOC	Spectroquant® 1.14879.0001		
Turbidity	---		
Urea	UREA-Reagent 1 UREA-Reagent 2 AMMONIA No. 1 AMMONIA No. 2		
Zinc	COPPER / ZINC LR EDTA DECHLOR	