

Salts in Water



Environmental & Water Standards

Reagents and Standards for Salts in Water



As per Official Methods of Analysis of AOAC International, 19th Edition, 2012 Volume 2. Dr George W. Latimer, Jr.

AOAC Official Method 973.42 Acidity of Water

| Chapter | Product No. | Description | Pack Size |
|------------|-------------|--|-----------|
| 11.1.04C.b | S20021 | Analytical Volumetric Solution Sodium Hydroxide 0.02N, 0.02M | 1L |

AOAC Official Method 973.43 Alkalinity of Water

| Chapter | Product No. | Description | Pack Size |
|------------|-------------|--|-----------|
| 11.1.05C.b | H20101 | Analytical Volumetric Solution Hydrochloric Acid 0.1N, 0.1M | 1L |
| 11.1.05C.b | S20021 | Analytical Volumetric Solution Sodium Hydroxide 0.02N, 0.02M | 1L |

AOAC Official Method 973.44 Biochemical Oxygen Demand (BOD) of Water

| Chapter | Product No. | Description | Pack Size |
|------------|-------------|-------------------------------|-----------|
| 11.1.06C.e | WTR5005 | Phosphate Buffer Solution 7.2 | 500ml |

AOAC Official Method 973.45 Oxygen (Dissolved) in Water

| Chapter | Product No. | Description | Pack Size |
|------------|-------------|---|-----------|
| 11.1.07B.e | T20101 | Analytical Volumetric Solution Sodium Thiosulphate 0.1N, 0.1M | 1L |

AOAC Official Method 973.48 Nitrogen (Total) in Water

| Chapter | Product No. | Description | Pack Size |
|------------|-------------|--|-----------|
| 11.1.11C.e | S20021 | Analytical Volumetric Solution Sodium Hydroxide 0.02N, 0.02M | 1L |
| 11.1.11C.f | SU20011 | Analytical Volumetric Solution Sulphuric Acid 0.02N, 0.01M | 1L |

AOAC Official Method 973.49 Nitrogen (Ammonia) in Water

| Chapter | Product No. | Description | Pack Size |
|------------|-------------|--|-----------|
| 11.1.12C.b | S21001 | Analytical Volumetric Solution Sodium Hydroxide 1.0N, 1.0M | 1L |

AOAC Official Method 973.51 Chloride in Water

| Chapter | Product No. | Description | Pack Size |
|------------|-------------|---------------------------|-----------|
| 11.1.14B.d | HGN200071 | Mercuric Nitrate 0.00705M | 1L |

AOAC Official Method 939.11 Fluoride in Water

| Chapter | Product No. | Description | Pack Size |
|------------|-------------|---|-----------|
| 11.1.15A.d | H20051 | Analytical Volumetric Solution Hydrochloric Acid 0.05N, 0.05M | 1L |
| 11.1.15A.e | S20051 | Analytical Volumetric Solution Sodium Hydroxide 0.05N, 0.05M | 1L |

AOAC Official Method 973.52 Hardness of Water

| Chapter | Product No. | Description | Pack Size |
|------------|-------------|--|-----------|
| 11.1.21C.c | ED20011 | Analytical Volumetric Solution EDTA (DiSodium salt) 0.02N, 0.01M | 1L |
| 11.1.21C.d | H23001 | Analytical Volumetric Solution Hydrochloric Acid 3N, 3M | 1L |

AOAC Official Method 973.55 Phosphorus in Water

| Chapter | Product No. | Description | Pack Size |
|------------|-------------|--|-----------|
| 11.1.31D.a | SU22501 | Analytical Volumetric Solution Sulphuric Acid 5.0N, 2.5M | 1L |
| 11.1.31D.e | SU22502 | Analytical Volumetric Solution Sulphuric Acid 5.0N, 2.5M | 1L |

AOAC Official Method 925.56 Iodine in Iodized Salt

| Chapter | Product No. | Description | Pack Size |
|------------|-------------|-------------------------------|-----------|
| 11.2.02A.a | KI10WV1 | Potassium Iodide, KI, 10% w/v | 1L |
| 11.2.02A.c | ST1001 | Starch Solution 1% | 1L |

AOAC Official Method 993.23 Dissolved Hexavalent Chromium in Drinking Water, Ground Water, and Industrial Wastewater Effluents

| Chapter | Product No. | Description | Pack Size |
|-----------|-------------|---|-----------|
| 9.2.41C.j | SU20051 | Analytical Volumetric Solution Sulphuric Acid 0.1N, 0.05M | 1L |

Reagecon's Kjeldahl Standards and Reagents

| Product No. | Description | Pack Size |
|-------------|--|------------|
| SUFMT5 | Gerber Test Sulphuric Acid FMT d. 1.815-1.825 | 5L |
| SUFMT25 | Gerber Test Sulphuric Acid FMT d. 1.815-1.825 | 25L |
| SUFMTJ | Gerber Test Sulphuric Acid FMT d. 1.815-1.825 | 2.5L |
| BOA25 | Kjeldahl Reagent 2% w/v Boric Acid solution without indicator | 5L |
| S30WW5 | Kjeldahl Reagent 30% w/w (40% w/v) Sodium Hydroxide | 5L |
| S30WWLN | Kjeldahl Reagent 30% w/w (40% w/v) Sodium Hydroxide | 5L |
| KJR015 | Kjeldahl Reagent 4% w/v Boric Acid solution with indicator | 5L |
| BOA4 | Kjeldahl Reagent 4% w/v Boric Acid solution without indicator | 5L |
| ST840 | Kjeldahl Reagent 40% w/v Sodium Hydroxide/8% Sodium Thiosulphate | 25L |
| ST841 | Kjeldahl Reagent 40% w/v Sodium Hydroxide/8% Sodium Thiosulphate | 5L |
| WTR045 | Kjeldahl Reagent Barium Chloride solution 10% w/v | 5L |
| BOAI225 | Kjeldahl Reagent Boric Acid 2% with indicator - 25L | 25L |
| BOA3310 | Kjeldahl Reagent Boric Acid 3.3% solution | 10L |
| PFS1 | Ferroun Indicator solution | 100ml |
| FEA25 | Iron Alum (Volhard) Indicator solution | 250ml |
| MTR05025 | Methyl Orange Indicator Alcoholic solution 0.1% | 250ml |
| IPT01H | Phenolphthalein Indicator Solution 0.1% | 500ml |
| IPT05F | Phenolphthalein Indicator Solution 0.5% | 1L |
| IPT05W | Phenolphthalein Indicator Solution 0.5% | 2.5L |
| IPT10H | Phenolphthalein Indicator Solution 1% | 500ml |
| IPT10W | Phenolphthalein Indicator Solution 1% | 2.5L |
| IPT1025 | Phenolphthalein Indicator Solution 1% | 250ml |
| IPT16W | Phenolphthalein Indicator Solution 1.6% | 2.5L |
| PCS5 | Potassium chromate, 5% Indicator solution | 500ml |
| TB04F | Thymol Blue Indicator Alcoholic Solution 0.04% | 500ml |
| NPD03 | Phosphatase Test 4-Nitrophenyl Di-Sodium Phosphate | 12 x 0.15g |
| NPD04 | Phosphatase Test Carbonate Bi-Carbonate Buffer | 12 x 2.5g |
| CH3CN501 | Acetonitrile CH ₃ CN, 50% v/v | 1L |
| BAB2041 | Barium Borate-Hydroxide Buffer | 1L |
| BAOH011 | Barium Hydroxide Ba(OH) ₂ , 0.1N | 1L |
| BOR0091 | Borax Buffer, 0.00996M | 1L |
| BUT7051 | n-Butanol CH ₃ (CH ₂) ₂ CH ₂ OH, 7.5% v/v | 1L |
| CUS051 | Copper Sulfate CuSO ₄ , 0.05% | 1L |
| CUS11 | Copper Sulfate CuSO ₄ , 1% | 1L |
| CUSSOLA | Copper Sulfate Solution B 72.5g/L | 1L |
| CUSSOLB | Copper Sulfate Solution A 440.9mg Cu/25ml | 1L |
| FESO41 | Ferrous Sulfate Solution FeSO ₄ | 1L |
| PBA101 | Lead Acetate Solution (CH ₃ COO) ₂ Pb, 10% | 1L |
| PB00574 | Phosphate Buffer, 0.05M pH 7.4 | 1L |
| EFSKNO | Potassium Nitrate KNO ₃ , 10% w/v | 100ml |
| PP500F | Potassium Permanganate KMnO ₄ , 5% w/v | 1L |
| S2WW1 | Sodium Hydroxide, NaOH, 2% w/v | 1L |
| ZS601 | Zinc Sulfate, ZnSO ₄ , 6% w/v | 1L |

Reagecon's Atomic Absorption Standards

| Description | Concentration 1,000ppm | Concentration 10,000ppm |
|---------------------------------------|------------------------|-------------------------|
| Aluminium in 0.5M Nitric Acid | AAALH | |
| Aluminium in 1M Nitric Acid | | AAALM |
| Antimony in Water | AASBH | AASBM |
| Arsenic (III) in 1M Hydrochloric Acid | AAASH | AAASM |
| Arsenic (V) in 1M Nitric Acid | AAAS05H | |
| Barium in 0.5M Nitric Acid | AABAH | |
| Barium in 1M Nitric Acid | | AABAM |
| Beryllium in 1M Hydrochloric Acid | AABEH | AABEM |
| Bismuth in 0.5M Nitric Acid | AABIH | |
| Bismuth in 1M Nitric Acid | | AABIM |
| Boron in Water | AAB-H | AAB-M |
| Cadmium in 0.5M Nitric Acid | AACDH | |
| Cadmium in 1M Nitric Acid | | AACDM |
| Calcium in 0.5M Nitric Acid | AACAH | |
| Calcium in 1M Nitric Acid | | AACAM |
| Cesium in 1M Nitric Acid | AACSH | AACSM |
| Chromium in 0.5M Nitric Acid | AACRH | |
| Chromium in 1M Nitric Acid | | AACRM |
| Cobalt in 0.5M Nitric Acid | AACOH | |
| Cobalt in 1M Nitric Acid | | AACOM |
| Copper in 0.5M Nitric Acid | AACUH | |
| Copper in 1M Nitric Acid | | AACUM |
| Gadolinium in 1M Hydrochloric Acid | AAGDH | AAGDM |
| Gallium in 1M Hydrochloric Acid | AAGAH | AAGAM |
| Gold in 2M Hydrochloric Acid | AAAUH | AAAUM |
| Indium in 1M Nitric Acid | AAINH | AAINM |
| Iridium in 10% Hydrochloric Acid | AAIRH | AAIRM |
| Iron in 0.5M Nitric Acid | AAFEH | |
| Iron in 1M Nitric Acid | | AAFEM |
| Lanthanum in 1M Nitric Acid | AALAH | AALAM |
| Lead in 0.5M Nitric Acid | AAPBH | |
| Lead in 1M Nitric Acid | | AAPBM |
| Lithium in 0.5M Nitric Acid | AALIH | |
| Lithium in 1M Nitric Acid | | AALIM |
| Magnesium in 0.5M Nitric Acid | AAMGH | |
| Magnesium in 1M Nitric Acid | | AAMGM |
| Manganese in 1M HCl | AAMNH | AAMNM |
| Mercury in 0.5M Nitric Acid | AAHGH | |
| Mercury in 1M Nitric Acid | | AAHGM |
| Molybdenum in Water | AAMOH | AAMOM |
| Nickel in 0.5M Nitric Acid | AANIH | |

| Description | Concentration 1,000ppm | Concentration 10,000ppm |
|-----------------------------------|------------------------|-------------------------|
| Nickel in 1M Nitric Acid | | AANIM |
| Palladium in 1M Hydrochloric Acid | AAPDH | AAPDM |
| Phosphorus in Water | AAP-H | AAP-M |
| Platinum in 1M Hydrochloric Acid | AAPTH | AAPTМ |
| Potassium in 0.5M Nitric Acid | AAK-H | |
| Potassium in 1M Nitric Acid | | AAK-M |
| Rhodium in 1M Nitric Acid | AARHH | AARHM |
| Selenium in 0.5M Nitric Acid | AASEH | |
| Selenium in 1M Nitric Acid | | AASEM |
| Silicon in Water | AASIH | AASIM |
| Silver in 0.5M Nitric Acid | AAAGH | |
| Silver in 1M Nitric Acid | | AAAGM |
| Sodium in 0.5M Nitric Acid | AANAH | |
| Sodium in 1M Nitric Acid | | AANAM |
| Strontium in 0.5M Nitric Acid | AASRH | |
| Strontium in 1M Nitric Acid | | AASRM |
| Sulphur in Water | AAS-H | AAS-M |

Matrix Modifier Solutions for Graphite Furnace AA

| Description | Product No. 100ml | Product No. 500ml |
|--|-------------------|-------------------|
| Ammonium dihydrogen phosphate solution 40% in Water | MMS101 | MMS105 |
| Ammonium nitrate solution 2% in Water | MMS201 | MMS205 |
| Calcium nitrate solution 2% Ca in 5% in HNO ₃ | MMS301 | MMS305 |
| Lanthanum chloride solution 5% La in 5% HCl | MMS401 | MMS405 |
| Lanthanum nitrate solution 5% La in 5% HNO ₃ | MMS501 | MMS505 |
| Magnesium nitrate solution 2% Mg in 5% HNO ₃ | MMS601 | MMS605 |
| Nickel nitrate solution 5% Ni in 5% HNO ₃ | MMS701 | MMS705 |
| Palladium nitrate solution 0.2% Pd in 5% HNO ₃ | MMS801 | MMS805 |
| Palladium nitrate solution 1.0% Pd in 5% HNO ₃ | MMS901 | MMS905 |
| Palladium nitrate solution 2.0% Pd in 10% HNO ₃ | MMS1001 | MMS1005 |

Releasing Agents for Atomic Absorption

| Product No. | Description | Pack size |
|-------------|------------------------------------|-----------|
| RA1N05 | 1.0% Lanthanum in HNO ₃ | 500ml |
| RA1C05 | 1.0% Lanthanum in HCl | 500ml |
| RA5N05 | 5.0% Lanthanum in HNO ₃ | 500ml |
| RA5C05 | 5.0% Lanthanum in HCl | 500ml |

Reagecon's Conductivity Standard's

| Product No. | Description | Pack Size |
|-------------|---------------------|-----------|
| CSKC13 | 1.30µS/cm @ 25°C | 250ml |
| CSKC136 | 1.30µS/cm @ 25°C | 6x250ml |
| CSKC3 | 3µS/cm @ 25°C | 250ml |
| CSKC5 | 5µS/cm @ 25°C | 500ml |
| CSKC10 | 10µS/cm @ 25°C | 500ml |
| CSKC20 | 20µS/cm @ 25°C | 500ml |
| CSKC238 | 23.8µS/cm @ 25°C | 500ml |
| CSKC25 | 25µS/cm @ 25°C | 500ml |
| CSKC50 | 50µS/cm @ 25°C | 500ml |
| CSKC84 | 84µS/cm @ 25°C | 500ml |
| CSKC100 | 100µS/cm @ 25°C | 500ml |
| CSKCS | 147µS/cm @ 25°C | 500ml |
| CSKC150 | 150µS/cm @ 25°C | 500ml |
| CSKC185 | 185µS/cm @ 25°C | 500ml |
| CSKC200 | 200µS/cm @ 25°C | 500ml |
| CSKC250 | 250µS/cm @ 25°C | 500ml |
| CSKC300 | 300µS/cm @ 25°C | 500ml |
| CSKC400 | 400µS/cm @ 25°C | 500ml |
| CSKC500 | 500µS/cm @ 25°C | 500ml |
| CSKC718 | 718µS/cm @ 25°C | 500ml |
| CSKC1000 | 1000µS/cm @ 25°C | 500ml |
| CSKCL | 1413µS/cm @ 25°C | 500ml |
| CSKC2M | 2000µS/cm @ 25°C | 500ml |
| CSKC2500 | 2500µS/cm @ 25°C | 500ml |
| CSKC3M | 3000µS/cm @ 25°C | 500ml |
| CSKC5M | 5,000µS/cm @ 25°C | 500ml |
| CSKC7M | 7,000µS/cm @ 25°C | 500ml |
| CSKC10M | 10,000µS/cm @ 25°C | 500ml |
| CSKC12880 | 12,880µS/cm @ 25°C | 500ml |
| CSKC20M | 20,000µS/cm @ 25°C | 500ml |
| CSKC30M | 30,000µS/cm @ 25°C | 500ml |
| CSKC40M | 40,000µS/cm @ 25°C | 500ml |
| CSKC50M | 50,000µS/cm @ 25°C | 500ml |
| CSKC60M | 60,000µS/cm @ 25°C | 500ml |
| CSKC80M | 80,000µS/cm @ 25°C | 500ml |
| CSKC100M | 100,000µS/cm @ 25°C | 500ml |
| CSKC111800 | 111,800µS/cm @ 25°C | 500ml |
| CSKC150M | 150,000µS/cm @ 25°C | 500ml |
| CSKC200M | 200,000µS/cm @ 25°C | 500ml |
| CSKC300M | 300,000µS/cm @ 25°C | 500ml |
| CSKC350M | 350,000µS/cm @ 25°C | 500ml |
| CSKC400M | 400,000µS/cm @ 25°C | 500ml |
| CSKC450M | 450,000µS/cm @ 25°C | 500ml |
| CSKC500M | 500,000µS/cm @ 25°C | 500ml |

pH Buffers @ 20°C

Clear, Colourless pH Buffer Solutions. Tested at 20°C and certified by Reagecon's ISO 17025 Accredited Test Method. NIST traceable and presented in various pack sizes.

| Description | Product No. 500ml | Product No. 1L | Product No. 5L |
|--|----------------------|-------------------|-------------------|
| Buffer Solution pH 1.00 ± 0.02 @ 20°C | 10105 | 1010 | 5010 |
| Buffer Solution pH 2.00 ± 0.02 @ 20°C | 10205 | 1020 | 5020 |
| Buffer Solution pH 3.00 ± 0.02 @ 20°C | 10305 | 1030 | 5030 |
| Buffer Solution pH 4.00 ± 0.01 @ 20°C | 10405 | 1040 | 5040 |
| Buffer Solution pH 4.00 ± 0.01 @ 20°C (Phthalate free) | CC10405 | CC1040 | CC5040 |
| Buffer Solution pH 5.00 ± 0.01 @ 20°C | 10505 | 1050 | 5050 |
| Buffer Solution pH 6.00 ± 0.01 @ 20°C | 10605 | 1060 | 5060 |
| Buffer Solution pH 6.80 ± 0.01 @ 20°C | 10685 | 1068 | 5068 |
| Buffer Solution pH 7.00 ± 0.01 @ 20°C | 10705 | 1070 | 5070 |
| Buffer Solution pH 8.00 ± 0.01 @ 20°C | 10805 | 1080 | 5080 |
| Buffer Solution pH 9.00 ± 0.01 @ 20°C | 10905 | 1090 | 5090 |
| Buffer Solution pH 10.00 ± 0.01 @ 20°C | 11005 | 1100 | 5100 |
| Buffer Solution pH 11.00 ± 0.05 @ 20°C | 11105 | 1110 | 5110 |
| Buffer Solution pH 12.00 ± 0.05 @ 20°C | 11205 | 1120 | 5120 |
| Buffer Solution pH 13.00 ± 0.05 @ 20°C | 11305 | 1130 | 5130 |

pH Buffers @ 25°C

Clear, Colourless pH Buffer Solutions. Tested at 25°C and certified by Reagecon's ISO 17025 Accredited Test Method. NIST traceable and presented in various pack sizes.

| Description | Product No. 500ml | Product No. 1L | Product No. 5L |
|--|----------------------|-------------------|-------------------|
| Buffer Solution pH 1.00 ±0.02 @25°C | 1010525 | 101025 | 501025 |
| Buffer Solution pH 2.00 ±0.02 @25°C | 1020525 | 102025 | 502025 |
| Buffer Solution pH 3.00 ±0.02 @25°C | 1030525 | 103025 | 503025 |
| Buffer Solution pH 4.00 ±0.01 @25°C | 1040525 | 104025 | 504025 |
| Buffer Solution pH 4.00 ±0.01 @25°C (Phthalate Free) | CC1040525 | CC104025 | CC504025 |
| Buffer Solution pH 5.00 ±0.01 @25°C | 1050525 | 105025 | 505025 |
| Buffer Solution pH 6.00 ±0.01 @25°C | 1060525 | 106025 | 506025 |
| Buffer Solution pH 6.80 ±0.01 @25°C | 1068525 | 106825 | 506825 |
| Buffer Solution pH 7.00 ±0.01 @25°C | 1070525 | 107025 | 507025 |
| Buffer Solution pH 8.00 ±0.01 @25°C | 1080525 | 108025 | 508025 |
| Buffer Solution pH 9.00 ±0.01 @25°C | 1090525 | 109025 | 509025 |
| Buffer Solution pH 10.00 ±0.01 @25°C | 1100525 | 110025 | 510025 |
| Buffer Solution pH 11.00 ±0.05 @25°C | 1110525 | 111025 | 511025 |
| Buffer Solution pH 12.00 ±0.05 @25°C | 1120525 | 112025 | 512025 |
| Buffer Solution pH 13.00 ±0.05 @25°C | 1130525 | 113025 | 513025 |