



## Reagents

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- Solvents



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# Reagents

A reagent is a chemical substance added to cause or function within a chemical reaction. Spex is pleased to offer you more choices for your analytical laboratory reagent needs with some of the most commonly used solutions and formulations of solvents, acids, bases, buffers and mixtures. These products are manufactured using the highest-quality raw materials to ensure low-level impurities and consistent lot-to-lot quality. These reagents are designed to work with any instrument and application, making Spex your reliable source for your chemical needs



Inorganic and Organic  
Certified Reference Materials



Supplied with a  
Certificate of Analysis



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Standards

# Reagents

## Acids and Bases

Acids are bases, compounds or reagents with molecules that have the ability to either donate a proton or form a covalent bond with an electron pair while bases are solutions which accept protons. Spex offers acid and bases solutions featuring the highest-quality raw materials to ensure low-level impurities and consistent lot-to-lot quality.

Description	Volume	CAS #	Part Number
Acetic Acid Glacial ACS	4 liter	64-19-7	84410-02
Acetic Acid Glacial ACS	2.5 liter	64-19-7	84410-03
Acetic Acid Glacial ACS	20 liter	64-19-7	84410-04
Ammonium Hydroxide	20 liter	1336-21-6	84410-09
EDTA Titrant, 0.1 M	1 liter	6381-92-6	84410-19
Formic Acid 90%, Viscosity Grade	4 liter	64-18-6	84410-25
Hydrochloric Acid ACS 37% w/w, 4 L	4 liter	7647-01-0	84410-27
Hydrochloric Acid ACS 37% w/w, 2.5 L	2.5 liter	7647-01-0	84410-28
Hydrochloric Acid Trace Metal	2.5 liter	7647-01-0	84410-29
Hydrochloric Acid, 1 N, 20 L	20 liter	7647-01-0	84410-30
Hydrochloric Acid, 1 N, 1 L	1 liter	7647-01-0	84410-31
Nitric Acid 70% Trace Metal	2.5 liter	7697-37-2	84410-47
Phosphoric Acid ACS 85% w/w	4 liter	7664-38-2	84410-52
Potassium Hydroxide ACS	3 kg	1310-58-3	84410-58
Sodium Hydroxide ACS Pellets	3 kg	1310-73-2	84410-76
Sulfuric Acid 70% w/w Textile	4 liter	7664-93-9	84410-86
Sulfuric Acid, 0.1 N	1 liter	7664-93-9	84410-87

# Reagents

## Buffers

Buffers are aqueous solutions or reagents that contain mixtures of weak acids and their conjugate bases that help mixtures and solutions resist changes in pH when exposed to stronger acids and bases. Buffers allow solutions to maintain a constant pH and can be used in many chemical and biological systems. Spex offers high-quality buffer solutions with low levels of impurities and consistent lot-to-lot quality.

Description	Volume	SI Units	Part Number
Buffer, pH 10.00, Blue	4 liter	10	84410-92
Buffer, pH 10.00, Blue	500 mL	10	84410-93
Buffer, pH 4.00, Red	20 liter	4	84410-94
Buffer, pH 4.00, Red	4 liter	4	84410-95
Buffer, pH 4.00, Red	500 mL	4	84410-96
Buffer, pH 7.00, Yellow	20 liter	7	84410-97
Buffer, pH 7.00, Yellow	4 liter	7	84410-98
Buffer, pH 7.00, Yellow	500 mL	7	84410-99
pH 2 Certified Buffer Standard	500 mL	2	PH-BUFF2-500
pH 3 Certified Buffer Standard	500 mL	3	PH-BUFF3-500
pH 4 Certified Buffer Standard	500 mL	4	PH-BUFF4-500
pH 5 Certified Buffer Standard	500 mL	5	PH-BUFF5-500
pH 6 Certified Buffer Standard	500 mL	6	PH-BUFF6-500
pH 7 Certified Buffer Standard	500 mL	7	PH-BUFF7-500
pH 8 Certified Buffer Standard	500 mL	8	PH-BUFF8-500
pH 9 Certified Buffer Standard	500 mL	9	PH-BUFF9-500
pH 10 Certified Buffer Standard	500 mL	10	PH-BUFF10-500
pH 11 Certified Buffer Standard	500 mL	11	PH-BUFF11-500
pH 12 Certified Buffer Standard	500 mL	12	PH-BUFF12-500

# Reagents

## Salts and Solids

Salts are chemical compounds with both a positive cations and negatively charge anions as part of the molecule resulting in a neutral net charge. Salts are important compounds in many medical, chemical, biological and manufacturing processes. Spex offers a variety of salts, solids and dissolved buffers to assist the laboratory in their research.

Description	Volume	CAS #	Part Number
Barium Chloride Dihydrate	10 kg	10326-27-9	84410-10
Ferrous Ammonium Sulfate Hexahydrate	25 kg	7783-85-9	84410-23
Iodine ACS	2 kg	7553-56-2	84410-33
Phenol Crystal ACS Reagent	2.5 kg	108-95-2	84410-49
Potassium Chloride ACS	12 kg	7447-40-7	84410-57
Potassium Iodide ACS	12 kg	7681-11-0	84410-59
Potassium Iodide ACS	500 mL	7681-11-0	84410-60
Sodium Phosphate Tribasic ACS	10 kg	10101-89-0	84410-83

# Reagents

## Solutions

Solutions are mixtures of two or more substances which are seen as homogeneous. Usually, a solute is dissolved into a solvent to create the solution. Concentration of the solute is often the means of measurement of the solution. Solutions are used in a wide variety of laboratory processes. Spex provides many high-quality common solutions critical laboratories processes.

Description	Volume	CAS #	Part Number
Barium Chloride, 10% w/v	20 liter	—	84410-11
Barium Chloride, 2 N (1 M)	4 liter	—	84410-12
Cupriethylenediamine, 1.0 M	20 liter	13426-91-0	84410-15
Cupriethylenediamine, 1.0 M, Amber Glass Container	4 liter	13426-91-0	84410-16
Cupriethylenediamine, 1.0 M	4 liter	13426-91-0	84410-17
FFA Solution	20 liter	—	84410-24
Hydroxylamine HCl, 6% w/v	10 liter	5470-11-1	84410-32
Iodine Monochloride Solution WIJS	4 liter	7553-56-2	84410-34
Iodine, 0.1 N	4 liter	7553-56-2	84410-35
Lanthanum Solution, APHA	20 liter	—	84410-41
Methanol, 50% v/v, HPLC	4 liter	67-56-1	84410-45
Phenol/o-Dichlorobenzene 50:50	2.5 liter	—	84410-50
Phenol/Tetrachloroethane 60/40	2.5 liter	—	84410-51
Phosphoric Acid, 50% v/v (1+1)	4 liter	7664-38-2	84410-53
Phosphoric Acid, 60% v/v	4 liter	7664-38-2	84410-54
Potassium Iodide, 10% (w/v)	20 liter	—	84410-55
Potassium Iodide, 10% (w/v)	4 liter	—	84410-56
Potassium Iodide, 1 N (16.6%)	20 liter	7681-11-0	84410-61
Potassium Iodide, 1 N (16.6%)	10 liter	7681-11-0	84410-62
Potassium Iodide, 1 N (16.6%)	4 liter	7681-11-0	84410-63
Potassium Iodide, 10% w/v	20 liter	7681-11-0	84410-64

# Reagents

## Solutions (continued)

Description	Volume	CAS #	Part Number
Potassium Permanganate, 0.1 N	20 liter	7722-64-7	84410-66
Silver Nitrate, 0.1 N	20 liter	7761-88-8	84410-68
Silver Nitrate, 0.1 N in Glass Amber Container	4 liter	7761-88-8	84410-69
Silver Nitrate, 0.1 N in Cubitainer	4 liter	7761-88-8	84410-70
Silver Nitrate, 0.1 N	1 liter	7761-88-8	84410-71
Silver Nitrate, 0.1 N	10 liter	7761-88-8	84410-72
Silver Nitrate, 0.12 N	20 liter	7761-88-8	84410-73
Silver Nitrate, 0.171 N	20 liter	7761-88-8	84410-74
Silver Nitrate, 0.171 N	4 liter	7761-88-8	84410-75
Sodium Hydroxide, 0.1 N	20 liter	1310-73-2	84410-77
Sodium Hydroxide, 0.1 N	4 liter	1310-73-2	84410-78
Sodium Hydroxide, 0.1 N	1 liter	1310-73-2	84410-79
Sodium Hydroxide, 0.5 N	20 liter	1310-73-2	84410-80
Sodium Hydroxide, 1 N	20 liter	1310-73-2	84410-81
Sodium Hydroxide, 50% w/w RGT	200 liter	1310-73-2	84410-82
Sodium Thiosulfate, 0.1 N	20 liter	—	84410-85

# Reagents

## Solvents

A solvent is a chemical reagent which is often mixed with a solute to form a solution. A solvent dissolves a solute to create the resulting mixture or solution. Solvents often have lower boiling points than other chemicals and large groups of solvents are often classified as volatile organic compounds (VOC) or semi-volatile organic compounds (SVOC). Spex offers an assortment of high-quality solvents for all your laboratory needs.

Description	Volume	CAS #	Part Number
1,1,2,2-Tetrachloroethane	1 L	79-34-5	84410-00
Acetic Acid / Isooctane 60:40	4 L	—	84410-01
Acetone ACS, Metal Can	20 L	67-64-1	84410-05
Acetone ACS Reagent, Poly Natural Container	4 L	67-64-1	84410-06
Acetone ACS Reagent, Amber Glass Container	4 L	67-64-1	84410-07
Acetone Purified	20 L	67-64-1	84410-08
Benzyl Alcohol Chlorine Free	4 L	100-51-6	84410-13
Chloroform ACS	4 L	67-66-3	84410-14
Dichloromethane ACS	4 L	75-09-2	84410-18
Ethanol (Denatured) 95%, 4 L	4 L	64-17-5	84410-20
Ethanol (Denatured) 95%, 20 L	20 L	64-17-5	84410-21
Ethanol (Denatured) Anhydrous, 20L	20 L	64-17-5	84410-22
Hexanes ACS	20 L	110-54-3	84410-26
Isopropanol ACS, 20 L, Metal Can	20 L	67-63-0	84410-36
Isopropanol ACS (2-Propanol; Isopropyl Alcohol), 4 L	4 L	67-63-0	84410-37
Isopropanol ACS, 20L, Cubitainer	20 L	67-63-0	84410-38
Isopropanol, 99%, anhydrous, 20 L	20 L	67-63-0	84410-39
Isopropanol, 99%, anhydrous, 4 L	4 L	67-63-0	84410-40
m-Cresol	4 L	108-39-4	84410-42
Methanol ACS, 4 L	4 L	67-56-1	84410-43
Methanol ACS, 20 L	20 L	67-56-1	84410-44
N,N-Dimethylformamide ACS	4 L	68-12-2	84410-46



# Reagents

## Solvents (continued)

Description	Volume	CAS #	Part Number
Petroleum Ether ACS	20 L	8032-32-4	84410-48
Pyridine ACS	4 L	110-86-1	84410-67
Sodium Std 100ppm Aqueous	500 ML	7647-14-5	84410-84
Toluene ACS	20 L	108-88-3	84410-88
Tributyl Phosphate, 98.5%+, 4 L	4 L	126-73-8	84410-89
Tributyl Phosphate, 98.5%+, 1 L	1 L	126-73-8	84410-90
Water, Deionized ACS Reagent	20 L	7732-18-5	84410-91
Isopropanol, 70% (v/v) Aqueous Solution, 1 Gallon	1 Gallon	67-63-0	88400-48
Reagent Alcohol, ACS Reagent Grade, Anhydrous	1 Gallon	67-63-0	88400-66
Methanol, HPLC Grade, Amber Glass Bottle, 4 Liters	4 Liter	67-56-1	88401-41
Acetonitrile, HPLC Grade, 1 Liter	1 Liter	75-05-8	88405-44
Acetonitrile, HPLC Grade, 4 Liters	4 Liter	75-05-8	88405-45
Ethyl Acetate, ACS Grade, 4 Liters	4 Liter	141-78-6	88405-51
Isopropyl Alcohol (IPA), ACS Grade, 1 Liter	1 Liter	67-63-0	88405-66
Isopropyl Alcohol (IPA), ACS Grade, 4 Liters	4 Liter	67-63-0	88405-69
Methanol, HPLC Grade, 1 Liter	1 Liter	67-56-1	88405-93
Acetone, ACS Grade, Amber Glass Bottle, 1 Liter	1 Liter	67-64-1	88406-12
Acetone, ACS Grade, Amber Glass Bottle, 4 Liters	4 Liter	67-64-1	88406-16
Acetone, HPLC Grade, 1 Liter	1 Liter	67-64-1	88406-18
Acetone, HPLC Grade, 4 Liters	4 Liter	67-64-1	88406-19

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