

Volumetric solutions
and related products



PanReac 
AppliChem
ITW Reagents

Titration is one of the most common techniques used in analytical laboratories to determine the concentration of a dissolved substance. For this application, we offer a large range of volumetric solutions ready to use, subject to stringent manufacturing and testing requirements. We select the appropriate raw materials and packaging to assure the highest purity and quality. They are traceable to SRMs of NIST and the factor of the volumetric solutions is adjusted to f: 1.000 with a tolerance of $\pm 0.1\%$. Our program also includes concentrated volumetric solutions, indicators and standards.



Ready-to-use volumetric solutions

Product code	Product name	Concentration	CAS number	Application / According to	Pack sizes	
181009	Acetic Acid	1 mol/L	64-19-7		1 L	
181369	Ammonium Iron(II) Sulfate	0.1 mol/L	7783-85-9	for determination of COD	1 L	
185227		0.12 mol/L			1 L	
181144	Ammonium Thiocyanate	0.1 mol/L	1762-95-4	Reag. Ph. Eur.	1 L	
183141	Benzethonium Chloride	0.004 mol/L	121-54-0	for titration of anionic surfactants	1 L	
182000	Bromine (Bromate-Bromide)	0.05 mol/L (0.1N)		Reag. USP	1 L	
181249	Cerium(IV) Sulfate	0.1 mol/L	10294-42-5	Reag. USP	1 L, 2.5 L	
181271	Copper(II) Sulfate	0.1 mol/L	7758-98-7		1 L	
181671	EDTA Disodium Salt	0.01 mol/L	6381-92-6		1 L, 2.5 L, 10 L	
182120		0.05 mol/L			1 L, 5 L, 10 L	
181670		0.1 mol/L			1 L, 5 L, 10 L	
182884	Hydrochloric Acid	0.01 mol/L	7647-01-0		1 L	
183458		0.02 mol/L			1 L	
182107		0.05 mol/L			1 L	
181023		0.1 mol/L			1 L, 2.5 L, 5 L, 10 L	
182318		0.25 mol/L			1 L	
185423		0.310 mol/L (1.128% w/v)			for determination of starch in feed (Ewers)	1 L, 5 L
181022		0.5 mol/L				1 L, 5 L, 10 L
181021		1 mol/L				1 L, 5 L, 10 L, 25 L
186985		1 mol/L			Reag. Ph. Eur.	1 L
182108		2 mol/L				1 L, 25 L
182057		3 mol/L			for analysis of raw fat	1 L, 10 L
182552		4 mol/L				1 L, 5 L
182109		5 mol/L				1 L, 5 L, 10 L
182883	6 mol/L		1 L			
187051	10 mol/L		100x10 mL, 1 L			
181969	Iodine	0.01 mol/L (0.02N)	7553-56-2	for determination of iodine adsorption number (ASTM D 1510)	500 mL, 1 L	
182915		0.02365 mol/L (0.0473N)			2.5 L	
182161		0.025 mol/L (0.05N)			Reag. USP	1 L
181772		0.05 mol/L (0.1N)			Reag. USP, Ph. Eur.	1 L, 2.5 L
182162		0.5 mol/L (1N)			Reag. Ph. Eur.	1 L
186880	Iodine (Iodate-Iodide)	N/64			1 L	
185733		N/50			1 L	
187042	Lanthanum Nitrate	0.1 mol/L	10277-43-7		1 L	



Product code	Product name	Concentration	CAS number	Application / According to	Pack sizes
187098	Magnesium Sulfate	0.01 mol/L (0.02N)	7487-88-9		1 L
181424	Mercury(II) Nitrate	0.05 mol/L (0.1N)	10045-94-0		1 L
181040	Nitric Acid	0.1 mol/L	7697-37-2		1 L
181039		1 mol/L			1 L
182112		2 mol/L			1 L
181043	Oxalic Acid	0.05 mol/L (0.1N)	6153-56-6	Reag. USP	1 L
181042		0.5 mol/L (1N)			1 L
181046	Perchloric Acid	0.1 mol/L in acetic acid	7601-90-3	Reag. USP, Ph. Eur.	1 L, 2.5 L
181047		0.1 mol/L in 1,4-dioxan		Reag. USP	1 L
181521	Potassium Hydroxide	0.1 mol/L	1310-58-3		1 L
182146		0.1 mol/L in ethanol		Reag. USP, Ph. Eur.	1 L
182147		0.1 mol/L in methanol		Reag. USP	1 L
183336		0.1 mol/L in 2-propanol			1 L
183354		0.23 mol/L		for determination of raw fibre	5 L, 10 L
181518		0.5 mol/L			1 L
181519		0.5 mol/L in ethanol		Reag. USP, Ph. Eur.	1 L
181520		0.5 mol/L in methanol			1 L
181517		1 mol/L			1 L, 5 L
182256		Potassium Iodide		1 mol/L	7681-11-0
183425	2 mol/L (pH 7.0)			5 L	
181790	Potassium Permanganate	0.002 mol/L (0.01N)	7722-64-7		1 L
181529		0.02 mol/L (0.1N)		Reag. USP	1 L, 2.5 L
182651		0.1 mol/L (0.5N)		for the titration of percarbonates	1 L, 25 L
181528		0.2 mol/L (1N)			1 L
181535	Potassium Thiocyanate	0.1 mol/L	333-20-0	Reag. USP	1 L
182792	SDS	0.004 mol/L	151-21-3	for the titration of cationic surfactants	1 L
182564	Silver Nitrate	0.01 mol/L	7761-88-8		1 L, 2.5 L
181465		0.02 mol/L			1 L
182115		0.05 mol/L			1 L
186983		0.1 mol/L		Reag. USP	1 L
181464		0.1 mol/L			1 L, 2.5 L, 10 L
185560		0.5 mol/L			1 L, 2.5 L
182116		1 mol/L			1 L
181845	Sodium Hydroxide	0.01 mol/L	1310-73-2		1 L
183397		0.02 mol/L			1 L
182153		0.05 mol/L			1 L
181694		0.1 mol/L (phenolphthalein)		Reag. USP, Ph. Eur.	1 L, 10 L
181693		0.1 mol/L (bromophenol blue)			1 L, 5 L, 10 L
182284		0.1 mol/L in ethanol			1 L
183154		0.111 mol/L		for analysis of acidity in milk (Dornic)	1 L, 10 L
182971		0.2 mol/L			1 L
182155		0.25 mol/L			1 L, 5 L
183337		0.313 mol/L		for determination of raw fibre	5 L
182156		0.3546 mol/L (N/2.82)		for analysis of oils	1 L, 10 L
181692		0.5 mol/L			1 L, 10 L
182415		1 mol/L (phenolphthalein)		Reag. USP, Ph. Eur.	1 L, 10 L

Product code	Product name	Concentration	CAS number	Application / According to	Pack sizes	
186982	Sodium Hydroxide	1 mol/L (phenolphthalein)	1310-73-2	Reag. Ph. Eur.	1 L, 10 L	
181691		1 mol/L (bromophenol blue)			1 L, 2.5 L, 5 L, 10 L	
185528		1.02 mol/L			10 L	
182158		2 mol/L			1 L	
183466		4 mol/L			1 L	
182159		5 mol/L			1 L, 5 L	
183508		10 mol/L			1 L, 5 L	
187057	Sodium tetra-Phenylborate	0.01 mol/L	143-66-8		1 L	
182577	Sodium Thiosulfate	0.01 mol/L	7772-98-7		1 L	
182914		0.0394 mol/L		for determination of iodine adsorption number (ASTM D 1510)	5 L	
182160		0.05 mol/L			1 L	
186987		0.1 mol/L		Reag. Ph. Eur.	1 L	
181723		0.1 mol/L		Reag. USP	1 L, 2.5 L, 10 L	
183489		0.2 mol/L			2.5 L	
181722		1 mol/L			1 L	
182102	Sulfuric Acid	0.01 mol/L (0.02N)	7664-93-9		1 L	
182103		0.025 mol/L (0.05N)			1 L	
181061		0.05 mol/L (0.1N)			1 L, 5 L, 10 L, 25 L	
182011		0.1 mol/L (0.2N)			1 L	
183335		0.1275 mol/L (0.255N)			for determination of raw fibre	5 L, 10 L
181060		0.25 mol/L (0.5N)				1 L, 2.5 L, 10 L
181059		0.5 mol/L (1N)				1 L, 2.5 L, 5 L, 10 L, 25 L
185775		0.9 mol/L (1.8N)				25 L
182105		1 mol/L (2N)				100 mL, 1 L, 5 L
183426		2 mol/L (4N)				1 L
182106	2.5 mol/L (5N)			1 L		
183669	Tetrabutylammonium Hydroxide	0.1 mol/L in 2-propanol/ methanol (11:1)	2052-49-5		500 mL	
185225		0.1 mol/L in toluene/ methanol (9:1)			500 mL	
187139		1 mol/L in methanol			250 mL	
182163	Zinc Sulfate	0.05 mol/L	7446-20-0		1 L	
181789		0.1 mol/L			1 L	

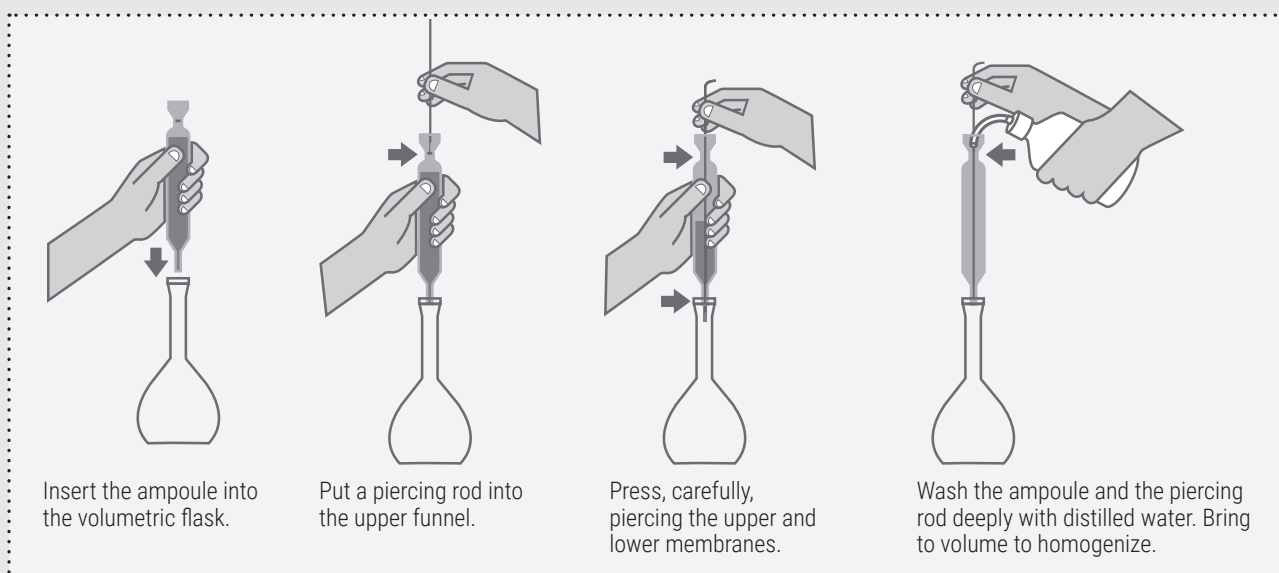
Concentrated volumetric solutions

Stable, accurate and long lasting solutions

We offer concentrated solutions for the preparation of volumetric solutions by dilution. With PanReac AppliChem concentrated volumetric solutions you will save storage space. They are very stable and have very long conservation (5 years). Quick and easy to make, just dilute with the desired solvent.

You can prepare concentrations other than those specified on the label. If the solution has been diluted under optimal conditions, we guarantee the concentration with $\pm 0.2\%$ accuracy.

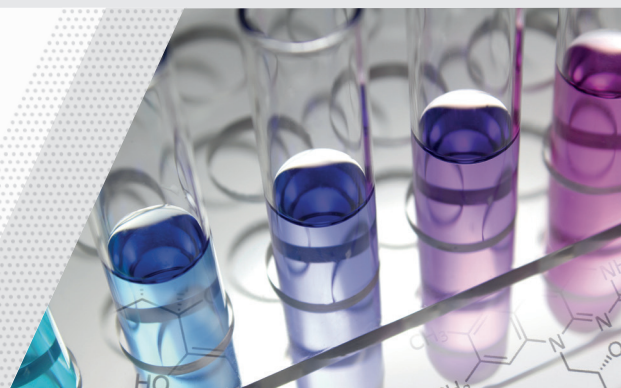
Product code	Product name	Concentration	CAS number	Pack size
303118	EDTA Disodium Salt	0.1 mol (37.224 g $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$) to prepare 1 L of 0.1 mol/L solution	6381-92-6	1 ampoule (110 mL)
303110	Hydrochloric Acid	0.1 mol (3.646 g HCl) to prepare 1 L of 0.1 mol/L solution	7647-01-0	1 ampoule (54 mL)
303112		1 mol (36.461 g HCl) to prepare 1 L of 1 mol/L solution		1 ampoule (120 mL)
303119	Iodine	0.05 mol (12.690 g I_2) to prepare 1 L of 0.05 mol/L (0.1 N) solution	7553-56-2	1 ampoule (63 mL)
303124	Potassium Permanganate	0.02 mol (3.161 g $KMnO_4$) to prepare 1 L of 0.02 mol/L (0.1 N) solution	7722-64-7	1 ampoule (69 mL)
303117	Silver Nitrate	0.1 mol (16.987 g $AgNO_3$) to prepare 1 L of 0.1N solution	7761-88-8	1 ampoule (61 mL)
303125	Sodium Hydroxide	0.1 mol (4.000 g NaOH) to prepare 1 L of 0.1 mol/L solution	1310-73-2	1 ampoule (54 mL)
303126		1 mol (40.00 g NaOH) to prepare 1 L of 1 mol/L solution		1 ampoule (112 mL)
303127	Sodium Thiosulfate	0.1 mol (24.818 g $Na_2S_2O_3 \cdot 5H_2O$) to prepare 1 L of 0.1 mol/L solution	10102-17-7	1 ampoule (56 mL)
303114	Sulfuric Acid	0.05 mol (4.904 g H_2SO_4) to prepare 1 L of 0.05 mol/L (0.1N) solution	7664-93-9	1 ampoule (53 mL)



Titration indicators

Indicators are used with volumetric solutions to show the end-point of the titration through visual color change. The pH range over which an indicator changes color is called its transition interval and is characteristic of each indicator. The visual transition range is the main factor in the selection of the pH indicator.

Our program includes both indicators in powder form and ready-to-use solutions.



Product code	Product name	CAS number	Type of indicator	Transition interval	Pack size
287101	Alkali Blue 6B solution for volumetric analysis		pH aqueous	pH 11.5 - 13.0 blue violet - dark pink	500 mL
281366	Alum Iron Ammonium saturated solution for volumetric analysis	7783-83-7	Titration of chlorides		250 mL
131759	Bromocresol Green for analysis, ACS	76-60-8	pH aqueous	pH 3.8 - 5.4 yellow - blue	5 g, 25 g
281760	Bromocresol Green solution 0.04% for volumetric analysis	76-60-8	pH aqueous	pH 3.8 - 5.4 yellow - blue	100 mL
121546	Bromocresol Purple (Reag. USP) for analysis	115-40-2	pH aqueous Adsorption	pH 5.2 - 6.8 greenish yellow - bluish purple	25 g
131165	Bromophenol Blue (Reag. USP, Ph. Eur.) for analysis, ACS	115-39-9	pH aqueous Adsorption	pH 3.0 - 4.6 greenish yellow - blue	5 g, 25 g
281166	Bromophenol Blue solution 0.04% for volumetric analysis	115-39-9	pH aqueous Adsorption	pH 3.0 - 4.6 greenish yellow - blue	100 mL
131167	Bromothymol Blue (Reag. USP) for analysis, ACS	76-59-5	pH aqueous	pH 6.0 - 7.6 yellow - blue	5 g, 25 g
281168	Bromothymol Blue solution 0.04% for volumetric analysis	76-59-5	pH aqueous	pH 6.0 - 7.6 yellow - blue	100 mL
123575	Calconcarboxylic Acid (Reag. Ph. Eur.) for analysis	3737-95-9	Complexometric		25 g
131762	Crystal Violet (C.I. 42555)(Reag. Ph. Eur.) for analysis, ACS	548-62-9	Acid-base, non-aqueous		100 g
132056	2,6-Dichlorophenol Indophenol Sodium Salt 2-hydrate (Reag. Ph. Eur.) for analysis, ACS	620-45-1	Redox		5 g
122844	Dimidium Bromide (Reag. Ph. Eur.) for analysis	518-67-2	Titration of surfactants		1 g
131828	Diphenylamine (Reag. Ph. Eur.) for analysis, ACS	122-39-4	Redox Adsorption		100 g
123577	1,5-Diphenylcarbazine (Reag. Ph. Eur.) for analysis	140-22-7	Redox Adsorption		25 g
131299	Eosin Yellowish (C.I. 45380) for analysis, ACS	17372-87-1	Adsorption		25 g
131439	Eriochrome Black T (C.I. 14645)(Reag. Ph. Eur.) for analysis, ACS	1787-61-7	Complexometric		25 g, 100 g
281440	Eriochrome Black T solution 1% for volumetric analysis	1787-61-7	Complexometric		100 mL
283462	Ferroun solution 0.025 mol/L (0.025M) for volumetric analysis	14634-91-4	Redox		100 mL
122389	Fluorescein Sodium (C.I. 45350) for analysis	518-47-8	Adsorption		100 g, 500 g, 1 kg
282430	Indicator Tashiro 4.4. Mixed (Methyl Red-Methylene Blue) for volumetric analysis		pH aqueous	pH 4.4 - 5.8 red violet - green	250 mL
283303	Indicator 4.8, Mixed (Methyl Red-Bromocresol Green) for volumetric analysis		pH aqueous	pH 4.8 - 5.5 pink violet - emerald green	250 mL
285406	Indicator Buffer Tablets for volumetric analysis		Complexometric		100 g

Volumetric analysis indicators can be categorized based on the type of reaction involved in the process:

- pH indicators in aqueous media
- Acid-base indicators in non-aqueous media
- Redox indicators
- Adsorption indicators
- Complexometric indicators
- Others



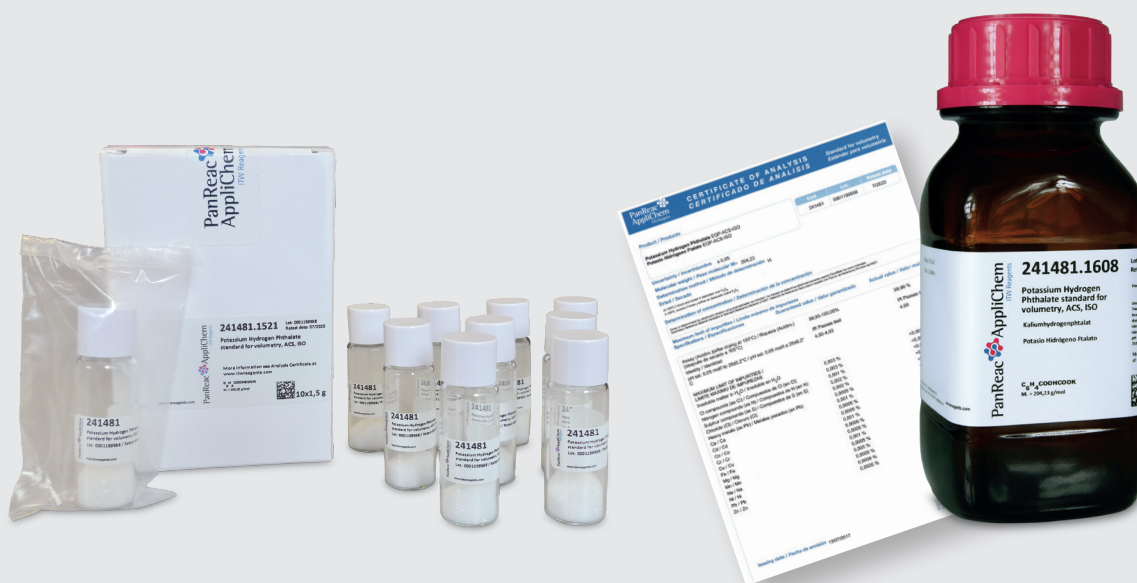
Product code	Product name	CAS number	Type of indicator	Transition interval	Pack size
286330	Indicator, Mixed (Dimidium Bromide-Disulfine Blue) for volumetric analysis		Titration of surfactants	pale pink - pale blue	2.5 L
131431	Methyl Orange (C.I. 13025)(Reag. Ph. Eur.) for analysis, ACS	547-58-0	pH aqueous Redox	pH 3.2 - 4.4 red - yellow	25 g
281432	Methyl Orange solution 0.1% (Reag. Ph. Eur.) for volumetric analysis	547-58-0	pH aqueous Redox	pH 3.2 - 4.4 red - yellow	100 mL, 250 mL
131617	Methyl Red (C.I. 13020)(Reag. USP, Ph. Eur.) for analysis, ACS	493-52-7	pH aqueous Redox	pH 4.2 - 6.2 red - yellow	10 g, 25 g, 100 g
281618	Methyl Red solution 0.1% for volumetric analysis	493-52-7	pH aqueous Redox	pH 4.2 - 6.2 red - yellow	100 mL
131436	Murexide (C.I. 56085) (Reag. Ph. Eur.) for analysis, ACS	3051-09-0	Complexometric		5 g
281437	Murexide 1% in Sodium Chloride for volumetric analysis		Complexometric		50 g
131321	1,10-Phenanthroline 1-hydrate for analysis, ACS	5144-89-8	Redox		5 g, 25 g
131325	Phenolphthalein (Reag. USP, Ph. Eur.) for analysis, ACS	77-09-8	pH aqueous	pH 8.0 - 10.0 colorless - red-violet	100 g, 500 g
283090	Phenolphthalein solution 0.1% for volumetric analysis	77-09-8	pH aqueous	pH 8.0 - 10.0 colorless - red-violet	100 mL
281326	Phenolphthalein solution 0.2% for volumetric analysis	77-09-8	pH aqueous	pH 8.0 - 10.0 colorless - red-violet	100 mL
281327	Phenolphthalein solution 1% (Reag. USP, Ph. Eur.) for volumetric analysis	77-09-8	pH aqueous	pH 8.0 - 10.0 colorless - red-violet	250 mL, 1 L
172866	Phenolphthalein solution 2%	77-09-8	pH aqueous	pH 8.0 - 10.0 colorless - red-violet	500 mL, 2.5 L
131615	Phenol Red (Reag. USP) for analysis, ACS	143-74-8	pH aqueous	pH 6.8 - 8.2 yellow - red	5 g, 50 g
121096	Starch from Potato soluble (Reag. USP, Ph. Eur.) for analysis	9005-84-9	Redox		500 g, 1 kg, 25 kg
283146	Starch solution 1% (Reag. Ph. Eur.) for volumetric analysis	9005-84-9	Redox		100 mL, 250 mL, 1 L
122838	5-Sulfosalicylic Acid 2-hydrate (Reag. Ph. Eur.) for analysis	5965-83-3	Complexometric		250 g
131739	Thymolphthalein (Reag. Ph. Eur.) for analysis, ACS	125-20-2	pH aqueous Acid-base, non-aqueous	pH 9.3 - 10.5 colorless - blue	5 g
281740	Thymolphthalein solution 0.1% for volumetric analysis	125-20-2	pH aqueous Acid-base, non-aqueous	pH 9.3 - 10.5 colorless - blue	1 L
281370	Universal Indicator of pH, solution for volumetric analysis		pH aqueous	Color range: pH 1 red sherry; pH 2 pink; pH 3 red orange; pH 4 orange red; pH 5 orange; pH 6 yellow; pH 7 yellow green; pH 8 green; pH 9 green bluish; pH 10 blue	100 mL
132617	Xylenol Orange Tetrasodium Salt (Reag. Ph. Eur.) for analysis, ACS	3618-43-7	Complexometric		5 g

Volumetric standards

To check the factor of the volumetric solutions, we supply standards for volumetry, our range of reference materials with a high purity of $100 \pm 0.05\%$ after drying. Each standard comes with its corresponding certificate of analysis indicating its purity and tolerance, the method used to determine this value, the NIST reference standard and the expiry date. In the following table you will find information about the available standards and the suitable method for drying the product if necessary.

Product code	Product name	CAS number	Type of titration	Drying method*	Pack size
241481	Potassium Hydrogen Phthalate standard for volumetry, ACS, ISO	877-24-7	Alkalimetry	105 °C	100 g, 10 x 1.5 g
241540	Potassium Iodate standard for volumetry, ACS, ISO	7758-05-6	Iodometry	130 °C	100 g
241648	Sodium Carbonate anhydrous standard for volumetry, ACS, ISO	497-19-8	Acidimetry	120 °C	100 g
241659	Sodium Chloride standard for volumetry, ACS, ISO	7647-14-5	Argentometry	110 °C	100 g
241706	di-Sodium Oxalate standard for volumetry, ACS	62-76-0	Redox	130 °C	100 g
241719	Sodium Tartrate 2-hydrate (Reag. Ph. Eur.) standard for volumetry, ACS	6106-24-7	Karl Fischer	110 °C	100 g
241940	Tris standard for volumetry, ACS	77-86-1	Acidimetry	105 °C	100 g

* Dry in an oven at the specified temperature for 2 hours and allow to cool in a desiccator before use



Other reagents used in volumetric analysis

Product code	Product name	CAS number	Application	Pack sizes
287184	Acetone + Bromophenol Blue 4.5 mg/L		Determination of soap content in oils and fats	5 L
281380	Acidimetric Liquor titrated for volumetric analysis	1310-58-3	Determination of oils and fats acidity. 1 mL corresponds to 0.028245 g of oleic acid	1 L
281381	Acidimetric Liquor titrated for volumetric analysis		Determination of oils and fats acidity in commercial grades. For 10 g of oil, 1 mL corresponds to 1° of acidity (=0.1 g of oleic acid)	1 L
281384	Acidimetric Liquor titrated for volumetric analysis		Determination of acidity in milk. 1 mL corresponds to 0.01 g of lactic acid (=1° Dornic)	1 L, 2.5 L, 5 L
283334	Ammonia Fixative solution 1% for volumetric analysis		Kjeldahl nitrogen determination	5 L
282972	Boric Acid solution 1% for volumetric analysis	10043-35-3	Kjeldahl nitrogen determination	5 L
287096	Boric Acid solution 2% for volumetric analysis	10043-35-3	Kjeldahl nitrogen determination	5 L, 25 L
282928	Boric Acid solution 3% for volumetric analysis	10043-35-3	Kjeldahl nitrogen determination	1 L
282222	Boric Acid solution 4% for volumetric analysis	10043-35-3	Kjeldahl nitrogen determination	1 L, 5 L
281730	Buffer Solution pH 10 for volumetric analysis		Complexometry	250 mL, 1 L, 5 L
281280	Complexon-Magnesium 0.1 mol/L for volumetric analysis		Complexometry	1 L
285482	Ethanol / Diethyl Ether 1:1 v/v + Bromophenol Blue 0.2%		Acidity determination in olive oil	30 L
285483	Ethanol / Diethyl Ether 1:1 v/v + Phenolphthalein 0.1%		Acidity determination in olive oil	5 L, 10 L, 30 L
281298	Ethanol / Diethyl Ether 1:1 v/v + Phenolphthalein 15 mg/L		Acidity determination in olive oil	1 L, 2.5 L, 5 L, 10 L, 30 L
281572	Hanus Reagent 0.1 mol/L (0.2N) for volumetric analysis		Determination of iodine index	1 L, 2.5 L
282923	Potassium Chloride 3 mol/L + Silver Chloride for volumetric analysis		Potentiometric electrodes	250 mL, 1 L
282775	Potassium Chloride 3 mol/l for volumetric analysis	7447-40-7	Potentiometric electrodes	250 mL, 1 L, 5 L
171543	Potassium Iodide solution 10% w/v	7681-11-0	Iodometric titrations	250 mL, 1 L
283098	Silver Sulfate solution 10 g/L in sulfuric acid for volumetric analysis	10294-26-5	Determination of COD	1 L, 2.5 L
282922	Silver Sulfate solution 6.6 g/L in sulfuric acid for volumetric analysis	10294-26-5	Determination of COD	1 L
176191	Sulfuric Acid 0.13 mol/L (0.26N)	7664-93-9	Determination of raw fibre according to ISO 6865:2000	1 L
281590	Wijs' Reagent 0.1 mol/L (0.2N) for volumetric analysis		Determination of iodine index	500 mL, 1 L
286079	Zeleny's Reagent for volumetric analysis		Determination of the sedimentation value in wheat	1 L

Volumetric solutions and indicators according to pharmacopeias

Indicators and volumetric solutions required in the tests and assays of the pharmacopoeia monographs have to meet the specifications indicated in the general chapter "Reagents" of the European Pharmacopoeia (Ph. Eur.) or in the chapter "Reagents, Indicators and Solutions" of the United States Pharmacopoeia (USP).

The pharmaceutical industry needs these solutions for the quality control of both raw materials and the final product.

We use the denomination "Reag. Ph. Eur.", "Reag. USP" or "Reag. USP, Ph. Eur." when the product is described and fulfills the requirements for **analytical reagents**, indicated in these general chapters of the pharmacopoeias.

- **Standardization** according to European Pharmacopoeia and/or USP indicated on the product label.
- **NIST-traceable.**
- The **factor** of the solutions is adjusted to **1.000** with a precision of **±0.1%**, providing more accurate measurements.
- **Stable** for at least **36 months** in most cases.



For routine use of large amounts of prepared solutions and specially designed to optimize the preservation of the solutions, we have our **10 L Sol-Pack** package. Sol-Pack consists of a collapsible polyethylene bag and an outer cardboard box, forming a light, practical and easily disposable pack. It incorporates a tap, which allows convenient dosing down to the last drop.



1 L plastic bottle that can adapt to automatic titrators available on the market.

How to order

Distributors

For ordering our high-quality products please contact your local distributor.

ITW Reagents has distributors in the countries as follows:

Algeria	Ecuador	Kazakhstan	Senegal
Argentina	Egypt	Kuwait	Serbia
Armenia	Finland	Lithuania	Slovakia
Australia	France	Mexico	Slovenia
Austria	Germany	Montenegro	South Korea
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A181,EN:202008



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