

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.



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Ready-to-use volumetric solutions

Product code	Product name	CAS number	Pack sizes
181670	EDTA Disodium Salt 0.1 mol/L (0.1 M) volumetric solution	6381-92-6	1 L, 5 L, 10 L
181023	Hydrochloric Acid 0.1 mol/L (0.1 N) volumetric solution	7647-01-0	1 L, 2.5 L, 5 L, 10 L
181021	Hydrochloric Acid 1 mol/L (1 N) volumetric solution	7647-01-0	1 L, 5 L, 10 L, 25 L
181772	Iodine 0.05 mol/L (0.1 N) (Reag. USP, Ph. Eur.) volumetric solution	7553-56-2	1 L, 2.5 L
181529	Potassium Permanganate 0.02 mol/L (0.1 N) (Reag. USP) volumetric solution	7722-64-7	1 L, 2.5 L
181694	Sodium Hydroxide 0.1 mol/L (0.1 N) (Reag. USP, Ph. Eur.) volumetric solution	1310-73-2	1 L, 10 L
181693	Sodium Hydroxide 0.1 mol/L (0.1 N) volumetric solution	1310-73-2	1 L, 5 L, 10 L
181691	Sodium Hydroxide 1 mol/L (1 N) volumetric solution	1310-73-2	1 L, 2.5 L, 5 L, 10 L
181723	Sodium Thiosulfate 0.1 mol/L (0.1 N) (Reag. USP) volumetric solution	7772-98-7	1 L, 2.5 L, 10 L

Concentrated volumetric solutions

Product code	Product name	CAS number	Pack sizes
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)
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)
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	Sodium Hydroxide 1 mol (40.00 g NaOH) to prepare 1 L of 1 mol/L solution	1310-73-2	1 ampoule (112 mL)

Titration indicators

Product code	Product name	CAS number	Pack sizes
131617	Methyl Red (C.I. 13020)(Reag. USP, Ph. Eur.) for analysis, ACS	493-52-7	10 g, 25 g, 100 g
131325	Phenolphthalein (Reag. USP, Ph. Eur.) for analysis, ACS	77-09-8	100 g, 500 g
281327	Phenolphthalein solution 1% (Reag. USP, Ph. Eur.) for volumetric analysis	77-09-8	250 mL, 1 L
121096	Starch from Potato soluble (Reag. USP, Ph. Eur.) for analysis	9005-84-9	500 g, 1 kg, 25 kg
283146	Starch solution 1% (Reag. Ph. Eur.) for volumetric analysis	9005-84-9	100 mL, 250 mL, 1 L

Other reagents used in volumetric analysis

Product code	Product name	CAS number	Pack sizes
282222	Boric Acid solution 4% for volumetric analysis	10043-35-3	1 L, 5 L
281730	Buffer Solution pH 10 for volumetric analysis		250 mL, 1 L, 5 L
281298	Ethanol / Diethyl Ether 1:1 v/v + Phenolphthalein 15 mg/L for acidity determination in olive oil		1 L, 2.5 L, 5 L, 10 L, 30 L
282775	Potassium Chloride 3 mol/L for volumetric analysis	7447-40-7	250 mL, 1 L, 5 L
281590	Wijs' Reagent 0.1 mol/L (0.2 N) for volumetric analysis		500 mL, 1 L

Volumetric standards

Product code	Product name	CAS number	Pack sizes
241481	Potassium Hydrogen Phthalate standard for volumetry, ACS, ISO	877-24-7	10x1.5 g, 100 g

Please find more information about volumetric solutions and related products at https://www.itwreagents.com/download_file/brochures/A181/en/A181_en.pdf

How to order

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