



Panreac

Volumetric Solutions

Traceable to SRM of NIST

Concentrated
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PANREAC elaborates more than 100 different volumetric solutions. The program of sale includes a great variety of solutes, solvents and concentrations for most of the analytical applications of a laboratory. The factor of the volumetric solutions is adjusted to f: 1,000 with a tolerance of $\pm 0,1\%$. In order to keep a better respect of the quality procedures, the expiry date of the product is indicated on the label of each bottle.

The volumetric solutions SV of Panreac are packaged in bottles of 1 l, 2,5 l, in 10 l Cubitainers SOL-PACK.

In the following table, you will find the complete program (SV). If you wish to receive more information, don't hesitate to request our General Catalogue or visit our web in www.panreac.com.

In case you require another solution, please consult us.

All these solutions include the corresponding certificate of analysis with the package.



Volumetric solutions. Ordering Information

Product	Concentration	Code	Package				
			1 l	2,5 l	5 l	10 l	25 l
Acetic Acid	0,1 M	181011	☐				
	0,5 M	182118	☐				
	1 M	181009	☐				
Ammonia	1 M	181132	☐				
Ammonium Iron(II) Sulphate (* for determination of COD according to NFT 90-101)	0,1 M	181369	☐				
	0,12 M (*)	185227	☐				
Ammonium Iron(III) Sulphate	0,1 M	181367	☐				
Ammonium Thiocyanate	0,1 M	181144	☐				
	1 M	182126	☐				
Barium Chloride	0,1 M	181184	☐				
Barium Perchlorate aqueous-alcoholic solution	0,005 M	182131	☐				
Benzethonium Chloride (*) (* for the titration of anionic surfactants)	0,004 M	183141	☐				
	0,01 M	186228	☐				
Bromine (Bromate-Bromide)	0,05 M (0,1N)	182000	☐				
Cerium(IV) Sulphate	0,05 M	182136	☐				
	0,1 M	181249	☐				
Copper(II) Sulphate	0,1 M	181271	☐				
Ethylenediaminetetraacetic Acid Disodium Salt (* for determination of water hardness in german degrees)	0,01 M	181671	☐				
	0,01785 M (*)	184489	☐				
	0,05 M	182120	☐				
	0,1 M	181670	☐				
Hydrochloric Acid	0,01M	182884	☐				
	0,05 M	182107	☐				
	0,1 M	181023	☐				
	0,25 M	182318	☐				
	0,310 M (1,128% w/v) (*)	185423	☐				
	0,3571 M (N/2,8)	183878	☐				
	0,5 M	181022	☐				
	1 M	181021	☐				
	2 M	182108	☐				
	3 M	182057	☐				
(*) for determination of starch in feed, according to Ewers	3,571 M	183879	☐				
	5 M	182109	☐				

Product	Concentration	Code	Package						
			500 ml	1 l	2,5 l	5 l	10 l	25 l	
Iodine	0,01 M (0,02N)	181969							
	0,02365 M (0,0473N) (*)	182915							
	(*) for determination of iodine adsorption number according to ASTM D 1510								
	0,025 M (0,05N)	182161							
	0,05 M (0,1N)	181772							
	0,5 M (1N)	182162							
Magnesium Sulphate	0,1 M	181405							
Mercury(II) Nitrate	0,005 M (0,01N)	182138							
	0,01 M (0,02N)	181425							
	0,05 M (0,1N)	181424							
Nitric Acid	0,1 M	181040							
	0,5 M	182111							
	1 M	181039							
	2 M	182112							
Oxalic Acid	0,025 M (0,05N)	182123							
	0,05 M (0,1N)	181043							
	0,5 M (1N)	181042							
Perchloric Acid	0,1 M in acetic acid	181046							
	0,1 M in 1,4-dioxan	181047							
	1 M aqueous	185310							
Potassium Bromate	1/60 M (0,1N)	181488							
Potassium Chloride	0,1 M	182251							
	1 M	182252							
Potassium Dichromate	1/60 M (0,1N)	181502							
	1/24 M (0,25N)	182142							
	1/6 M (1N)	181501							
Potassium Dichromate with 80 g/l of Mercury(II) Sulphate	0,02 M ⁽¹⁾	185836							
	⁽¹⁾ for determination of COD								
	0,04 M ⁽²⁾	184385							
	⁽²⁾ for determination of COD according to NFT 90-101								
Potassium Hexacyanoferrate(III)	0,1 M	181504							
Potassium Hydroxide	0,1 M	181521							
	0,23 M (*)	183354							
	0,5 M	181518							
	1 M	181517							
	(*) for determination of raw fibre								
	2 M	182145							
Potassium Hydroxide ethanolic	0,1 M	182146							
	0,5 M	181519							
	1 M	184438							
Potassium Hydroxide methanolic	0,1 M	182147							
	0,5 M	181520							
Potassium Hydroxide in 2-Propanol	0,1 M	183336							
Potassium Iodate	0,05 M (0,3N)	181541							
	1/60 M (0,1N)	182806							
Potassium Iodide	0,1 M	181544							
	1 M	182256							
Potassium Permanganate	0,01 M (0,05N)	182114							
	0,02 M (0,1N)	181529							
	0,1 M (0,5N) (*)	182651							
	(*) for the titration of percarbonates								
	0,2 M (1N)	181528							
Potassium Thiocyanate	0,1 M	181535							
Silver Nitrate	0,01 M	182564							
	0,02 M	181465							
	0,05 M	182115							
	0,1 M	181464							
	1 N	182116							

Product	Concentration	Code	Package					
			500 ml	1 l	2,5 l	5 l	10 l	25 l
Sodium Acetate in acetic acid	0,1 M	183706						
Sodium meta-Arsenite	0,05 M (0,1N)	181152						
Sodium Carbonate	0,5 M (1N)	181649						
Sodium Chloride	0,1 M	181661						
	1 M	184770						
Sodium Dodecyl Sulphate	0,004 M (*)	182792						
(*) for the titration of cationic surfactants								
Sodium Hydroxide	0,02 M	183397						
	0,025 M	182296						
	0,04 M	181584						
	0,05 M	182153						
	0,1 M (bromophenol blue)	181693						
	0,1 M (phenolphthalein)	181694						
	0,111 M acc. Dornic ⁽¹⁾	183154						
	0,2 M	182971						
	0,25 M	182155						
	0,313 M ⁽²⁾	183337						
	0,3546 M (N/2,82) ⁽³⁾	182156						
	0,5 M	181692						
	1 M (bromophenol blue)	181691						
	1 M (phenolphthalein)	182415						
	2 M	182158						
	4 M	183466						
	5 M	182159						
Sodium Hydroxide ethanolic	0,1 M	182284						
	1 M	182265						
Sodium Thiocyanate	0,1 M	182292						
Sodium Thiosulphate	0,01 M	182577						
	0,0394 M (*)	182914						
	0,05 M	182160						
	0,1 M	181723						
	0,2 M	183489						
	1 M	181722						
Sulphuric Acid	0,01 M (0,02N)	182102						
	0,025 M (0,05N)	182103						
	0,05 M (0,1N)	181061						
	0,1 M (0,2N)	182011						
	0,1275 M (0,255N) ⁽¹⁾	183335						
	0,25 M (0,5N)	181060						
	0,5 M (1N)	181059						
	1 M (2N)	182105						
	2,5 M (5N)	182106						
	4 M (8N) ⁽²⁾	185314						
	5 M (10N)	186364						
Tetrabutylammonium Hydroxide in 2-propanol/methanol (11:1)	0,1 M	183669						
Tetrabutylammonium Hydroxide in toluene/methanol (9:1)	0,1 M	185225						
Zinc Sulphate	0,05 M	182163						
	0,1 M	181789						

Packaging symbols:

Glass bottle

Polyethylene bottle

Polyethylene container with removable tap

Glass bottle with external packing

Polyethylene canister

Concentrated Volumetric Solutions

Stable, accurate and long lasting solutions

PANREAC can supply a wide range of Concentrated Volumetric Solutions in ampoules, for the preparation by dilution of volumetric solutions. There are 18 different articles, which satisfy the requirements of volumetric determinations. With PANREAC SVc you will save storage space. SVc are very stable and they have very long conservation (5 years).


Quick and easy to make, just dilute with the desired solvent. With the SVc ampoules you can prepare solutions of different concentrations from the one specified on the label. If the solution has been diluted under optimal conditions, we guarantee the concentration with $\pm 0,2\%$ accuracy.

The plastic ampoules are offered inside an anti-shock blister and the glass ones are delivered inside a polystyrene protective shell. All topics concerning the usage and the safety are notified in the packaging. Each ampoule includes a sticker for a perfect identification of the prepared solution.

You can find detailed specifications of these products in our General Catalogue or in www.panreac.com.



The following table shows our SVc program.

Code	Description	Package: 1 ampoule 
303116	Ammonium Thiocyanate 0,1 mol (7,612g NH_4SCN) to prepare 1l of 0,1N solution SVc	
303118	Ethylenediaminetetraacetic Acid Disodium Salt 0,1 mol (37,224g $\text{C}_{10}\text{H}_{14}\text{N}_2\text{Na}_2\text{O}_8 \cdot 2\text{H}_2\text{O}$) to prepare 1l of 0,1M solution SVc	
303110	Hydrochloric Acid 0,1 mol (3,646g HCl) to prepare 1l of 0,1N solution SVc	
303111	Hydrochloric Acid 0,5 mol (18,230g HCl) to prepare 1l of 0,5N solution SVc	
303112	Hydrochloric Acid 1 mol (36,461g HCl) to prepare 1l of 1N solution SVc	
303119	Iodine 0,05 mol (12,690g I_2) to prepare 1l of 0,1N solution SVc	
303113	Oxalic Acid 0,05 mol (6,303g $\text{C}_2\text{H}_2\text{O}_4$) to prepare 1l of 0,1N solution SVc	
303120	Potassium Dichromate 1/60 mol (4,903g $\text{K}_2\text{Cr}_2\text{O}_7$) to prepare 1l of 0,1N solution SVc	
303121	Potassium Hydroxide 0,1 mol (5,611g KOH) to prepare 1l of 0,1N solution SVc	
303122	Potassium Hydroxide 0,5 mol (28,054g KOH) to prepare 1l of 0,5N solution SVc	
303123	Potassium Hydroxide 1 mol (56,109g KOH) to prepare 1l of 1N solution SVc	
303124	Potassium Permanganate 0,02 mol (3,161g KMnO_4) to prepare 1l of 0,1N solution SVc	
303117	Silver Nitrate 0,1 mol (16,987g AgNO_3) to prepare 1l of 0,1N solution SVc	
303125	Sodium Hydroxide 0,1 mol (4,000g NaOH) to prepare 1l of 0,1N solution SVc	
303126	Sodium Hydroxide 1 mol (40,00g NaOH) to prepare 1l of 1N solution SVc	
303127	Sodium Thiosulphate 0,1 mol (24,818g $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$) to prepare 1l of 0,1N solution SVc	
303114	Sulphuric Acid 0,05 mol (4,904g H_2SO_4) to prepare 1l of 0,1N solution SVc	
303115	Sulphuric Acid 0,5 mol (49,039g H_2SO_4) to prepare 1l of 1N solution SVc	



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