

PHARMACOPOEIA PRODUCTS

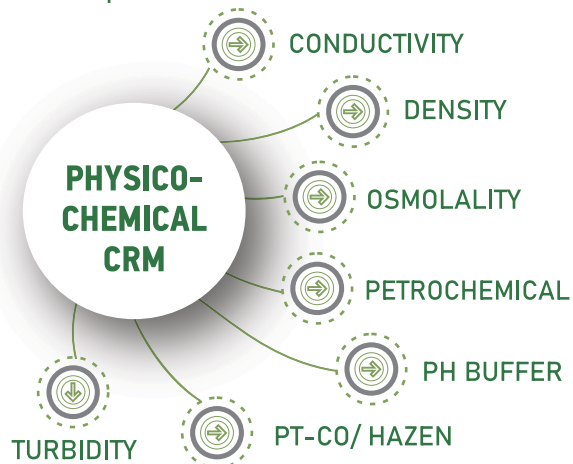
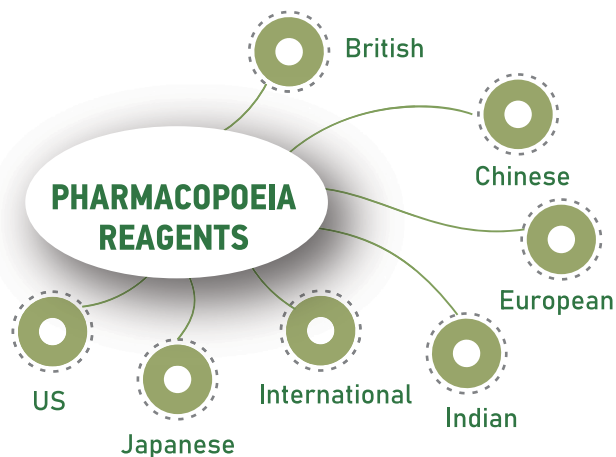


PRODUCT PORTFOLIO

CPAchem is the only producer in the world providing products prepared according to seven different pharmacopoeas. Pharmacopoeia reagents are prepared to the latest Pharmacopoeia recipes.

Pharmacopoeia products, designed for:

- GC and HPLC are to be found in our Organic catalogue;
- AAS, ICP and Ion Chromatography in our Inorganic Catalogue



Apart from the above products CPAchem produces Inorganic and Organic Certified Reference materials, Analytical CRM and Physico-Chemical CRM



CUSTOM PRODUCTS

CPAchem is the world leader in production of Custom-made standards. Nowadays more than 7500 laboratories in more than 100 countries worldwide use our standards. The custom-made standards are prepared to exactly match clients' needs and give them opportunities to quickly achieve their goals.

Cost-effective solutions



Short lead time for preparation



2-5 business days delivery



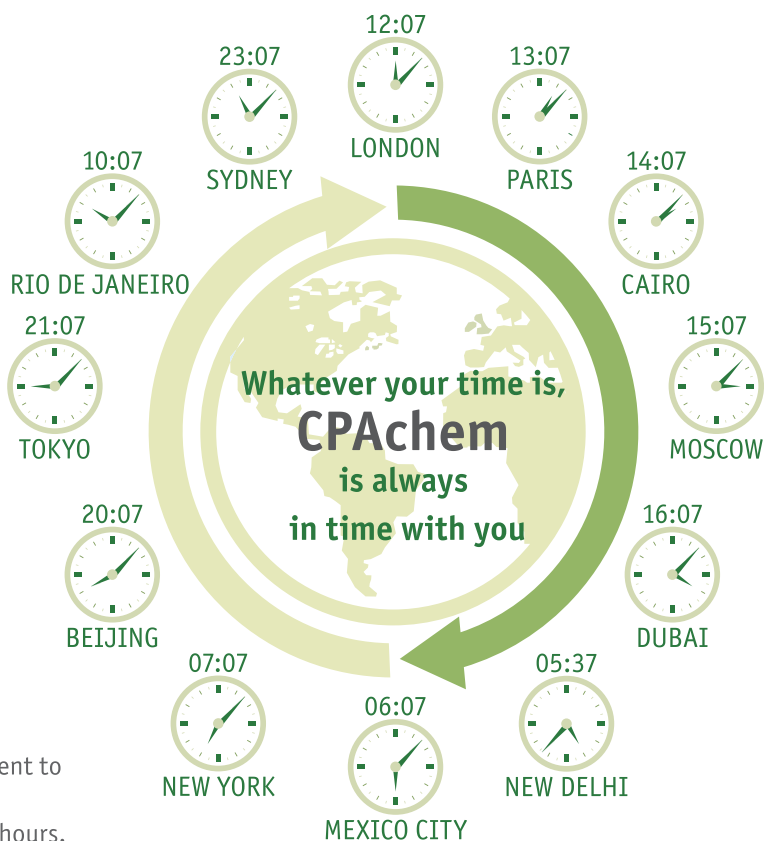
24 hour Emergency orders



TECHNOLOGY

CPAchem relies mainly on a very knowledgeable and creative team of chemists who together with software engineers developed unique Computer-Aided Manufacturing software which performs and controls the whole production process. The company has been constantly investing in high-tech apparatuses.

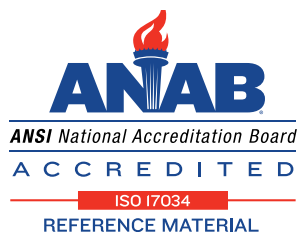
All these guarantee that **CPAchem** is always in time with its customers.



All customer inquiries sent to sales@cpachem.com are answered within 24 hours.

ACCREDITATION AND QUALITY

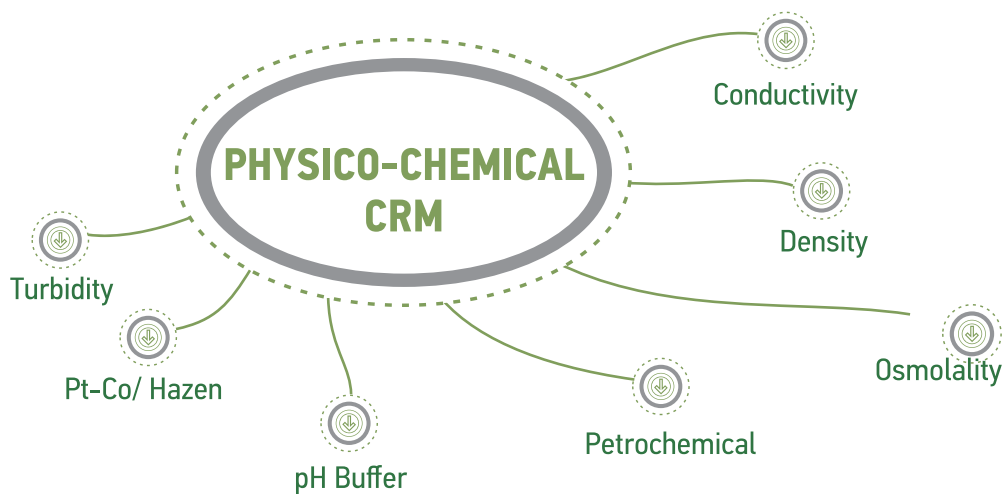
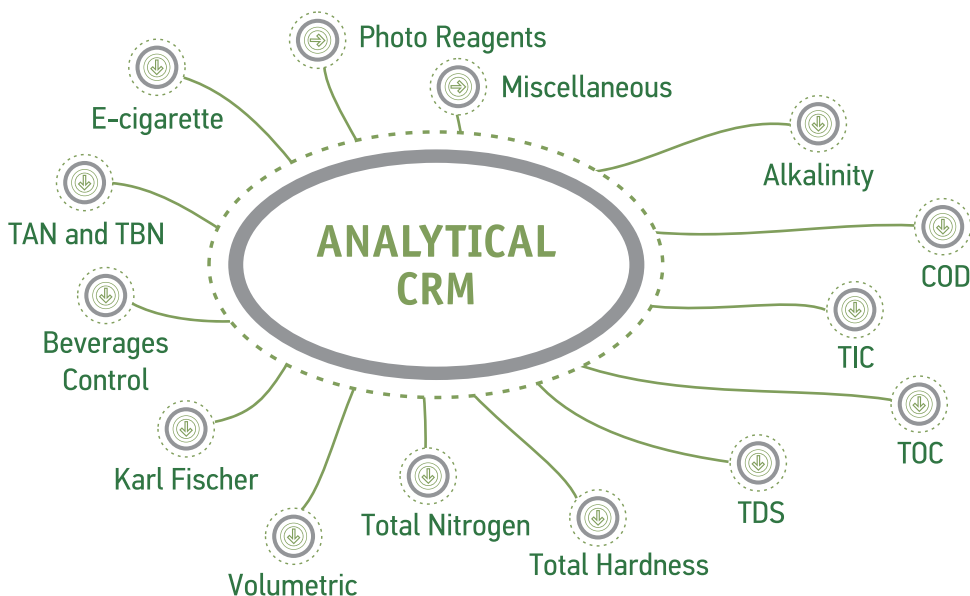
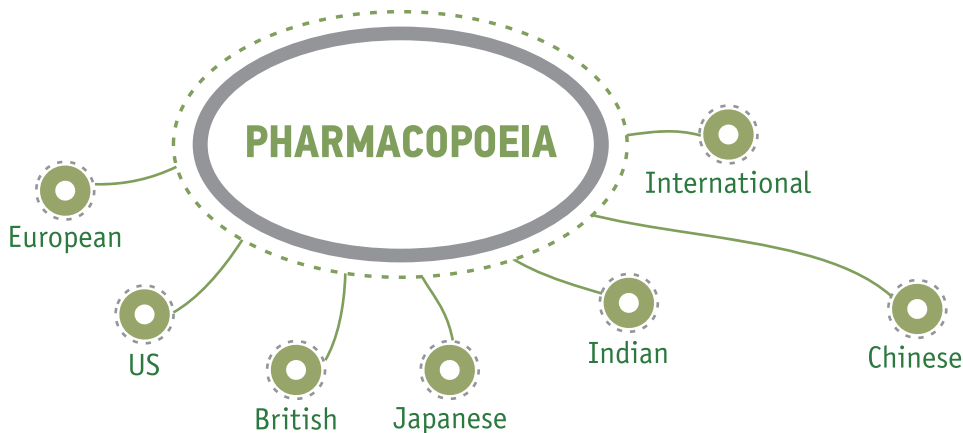
CPAchem has the highest achievable quality level for reference material producers with one of the broadest accreditation scopes in the world.



The main priority of **CPAchem's** management is to guarantee the best professional practice and quality throughout all stages of the production process, storage and distribution. The biggest proof for the quality of our products is that the percentage of valid claims has always been kept below 0.3%.

BROWSE PRODUCTS AND PRICES

As CPChem has been constantly adding products to its portfolio, browse the actual products and prices at www.cpachem.com

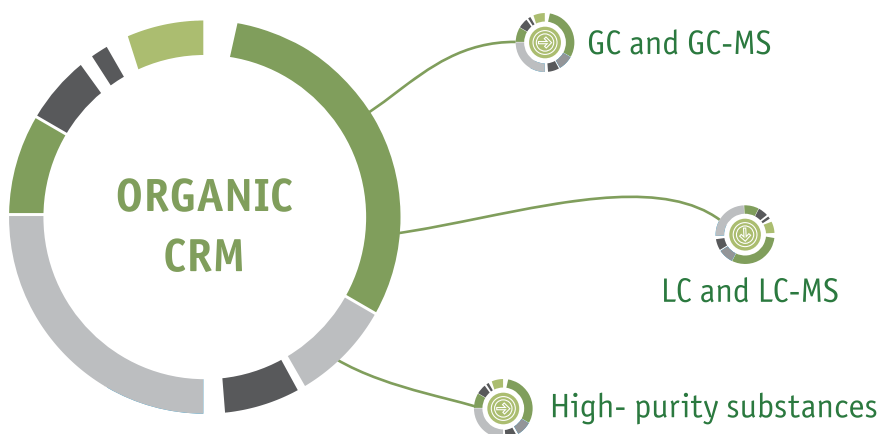
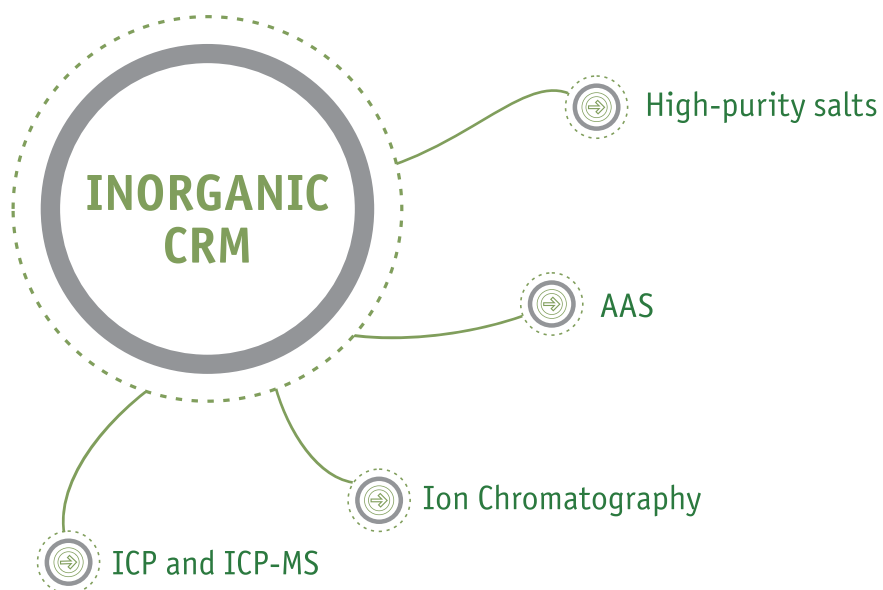


CUSTOM ANALYTICAL PRODUCTS
INQUIRIES



BROWSE PRODUCTS AND PRICES

As CPAchem has been constantly adding products to its portfolio, browse the actual products and prices at www.cpachem.com



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**BRITISH
PHARMACOPOEIA
PRODUCTS**

General Reagents

The specifications given for reagents do not necessarily guarantee their quality for use in medicines. Some of the reagents included may be injurious to health unless adequate precautions are taken. They should be handled in accordance with good laboratory practice and any relevant regulations such as those issued in the United Kingdom in accordance with the Health and Safety at Work etc. Act (1974). Reagents in aqueous solution are prepared using water R. Reagent solutions used in the limit tests for barium, calcium and sulphates are prepared using distilled water R. Where the name of the solvent is not stated, an aqueous solution is intended.

Ref. Number	Description	Volume	Msr
BP002	Acetic Acid, Dilute	1000	ml
BP003	Acetic Anhydride Solution R1	100	ml
BP003a	Acetic Anhydride Solution R1	1000	ml
BP004	Acetylacetone Reagent R1	100	ml
BP005	Alcohol, Aldehyde-free	1000	ml
BP006	Alizarin S Solution	100	ml
BP007	Aluminium Chloride Reagent	1000	ml
BP007a	Aluminium Chloride Reagent	100	ml
BP008	Aluminium Chloride Solution	100	ml
BP009	Amaranth Solution	100	ml
BP010	Amido Black 10B Solution	100	ml
BP011	4-Aminobenzoic Acid Solution - Solution A	100	ml
BP012	Aminohippuric Acid Reagent	100	ml
BP013	Aminomethylalizarindiacetic Acid Reagent (Sol A+B+C)	50+50+100	ml
BP014	Aminomethylalizarindiacetic Acid Solution	1000	ml
BP015	Aminophenazone Solution	100	ml
BP016	Ammonia R1, Dilute	1000	ml
BP017	Ammonia R2, Dilute	1000	ml
BP018	Ammonia R3, Dilute	1000	ml
BP019	Ammonium Carbonate Solution	1000	ml
BP020	Ammonium Carbonate Solution, Dilute	100	ml
BP021	Ammonium Chloride Solution	1000	ml
BP022	Ammonium Citrate Solution	1000	ml
BP023	Ammonium Iron (III) Sulfate Solution R1	100	ml
BP024	Ammonium Iron (III) Sulfate Solution R2	1000	ml
BP025	Ammonium Iron (III) Sulfate Solution R5	100	ml
BP026	Ammonium Iron (III) Sulfate Solution R6	100	ml
BP027	Ammonium Mercaptoacetate Solution	500	ml
BP028	Ammonium Mercurithiocyanate Reagent	1000	ml
BP029	Ammonium Metavanadate Solution	100	ml
BP030	Ammonium Molybdate Solution	1000	ml
BP031	Ammonium Molybdate Solution R2	50	ml
BP032	Ammonium molybdate solution R3 (I+II) (200ml+800ml)	1000	ml
BP033	Ammonium Molybdate Solution R6	100	ml
BP034	Ammonium Molybdate-Sulphuric Acid Solution	100	ml

Ref. Number	Description	Volume	Msr
BP035	Ammonium Oxalate Solution	1000	ml
BP036	Ammonium Thiocyanate Solution	1000	ml
BP037	Ammonium Vanadate Solution	100	ml
BP038	Anisaldehyde Solution	100	ml
BP039	Anisaldehyde Solution R1	100	ml
BP040	Antimony Trichloride in Dichloroethane Solution	100	ml
BP041	Antimony Trichloride Solution	100	ml
BP042	Antimony Trichloride Solution R1 (Solution A)	100	ml
BP043	Arsenite Solution	100	ml
BP044	Ascorbic Acid Solution	100	ml
BP045	Azomethine H Solution	100	ml
BP046	Barium Chloride Solution	1000	ml
BP047	Barium Chloride Solution R1	1000	ml
BP048	Barium Chloride Solution R2	1000	ml
BP049	Barium Hydroxide Solution	1000	ml
BP050	Bismuth Oxynitrate Solution	500	ml
BP051	Biuret Reagent	1000	ml
BP052	Blocking Solution	1000	ml
BP053	Borate Solution	1000	ml
BP054	Boric Acid Solution	100	ml
BP055	Boric Acid Solution, Cold Saturated	100	ml
BP056	Bromine 0.05M	1000	ml
BP057	Bromine Solution	100	ml
BP058	Bromine Solution, Acetic	1000	ml
BP059	Bromine Water	100	ml
BP060	Bromocresol Green Solution	100	ml
BP061	Bromocresol Green-Methyl Red Solution	100	ml
BP062	Bromocresol Purple Solution	100	ml
BP063	Bromophenol Blue Solution	100	ml
BP064	Bromophenol Blue Solution R1	100	ml
BP065	Bromophenol Blue Solution R2	100	ml
BP066	Bromothymol Blue Solution R1	100	ml
BP067	Bromothymol Blue Solution R2	100	ml
BP068	Bromothymol Blue Solution R3	100	ml
BP069	BRP Indicator Solution	100	ml
BP070	Cadmium Iodide Solution	100	ml
BP071	Calcium Chloride Solution	1000	ml
BP072	Calcium Chloride Solution, 0.01M	100	ml
BP073	Calcium Sulphate Solution	100	ml
BP074.50G	Calconcarboxylic acid triturate	50	g
BP075	Cerium(III) Nitrate Solution	1000	ml
BP076	Chloral Hydrate Solution	100	ml
BP077	2-Chloroethanol Solution	50	ml
BP078	Chloroform, Acidified	100	ml
BP079	Chloroform Water	1000	ml
BP080	Chromotrope IIB Solution	100	ml
BP081	Chromotropic Acid-Sulphuric Acid Solution	100	ml
BP082	Citric-Molybdic Acid Solution	100	ml

Ref. Number	Description	Volume	Msr
BP083	Congo Red Paper (Pack of 50)	1	pack of 50
BP084	Congo Red Solution	100	ml
BP085	Coomassie Staining Solution	100	ml
BP086	Copper Chloride-Pyridine Reagent	100	ml
BP087	Copper Edetate Solution	1000	ml
BP088	Copper Oxide Solution, Ammoniacal	100	ml
BP089	Copper Sulphate Solution	1000	ml
BP090	Copper Sulphate Solution, Weak	1000	ml
BP091	Copper Tetrammine, Ammoniacal Solution of	100	ml
BP092	m-Cresol Purple Solution	100	ml
BP093	Cresol Red Solution	100	ml
BP094	Crystal Violet Solution	100	ml
BP095	Cupriethylenediamine Hydroxide Solution	1000	ml
BP096	Cupri-citric Solution	1000	ml
BP097	Cupri-citric solution R1	1000	ml
BP098	Cupri-tartaric solution (I+II) (500ml+500ml)	500+500	ml
BP099	Cupri-tartaric Solution R1 (I+II) (500ml+500ml)	500+500	ml
BP100	Cupri-tartaric solution R4 (I+II) (500ml+500ml)	500+500	ml
BP101	Destaining Solution	1000	ml
BP102	Developer Solution	500	ml
BP103	Dichloroacetic Acid Solution	500	ml
BP104	Dichloromethane, Acidified	100	ml
BP105	Dichloromethane Reagent	1000	ml
BP106	Digoxin Reagent	100	ml
BP107	Dimethyl Yellow and Oracet Blue Solution	100	ml
BP108	Dimethyl Yellow Solution	100	ml
BP109	Dimethylaminobenzaldehyde Reagent	100	ml
BP110	Dimethylaminobenzaldehyde Solution R6	100	ml
BP111	Dimidium Bromide-Sulphan Blue Mixed Solution	500	ml
BP112	Dinitrobenzene Solution	1000	ml
BP113	Dinitrobenzoic Acid Solution	1000	ml
BP114	Dioxan Solution	100	ml
BP115	Dioxan Solution R1	50	ml
BP116	Dioxan Stock Solution	100	ml
BP117	Diphenylamine Solution	1000	ml
BP118	Diphenylamine Solution R1	1000	ml
BP119	Diphenylcarbazone mercuric reagent (I+II)	100+100	ml
BP120	Disodium Hydrogen Phosphate Solution	1000	ml
BP121	Dithizone Solution R2	100	ml
BP122	Divanadium Pentoxide Solution in Sulphuric Acid	100	ml
BP123	Ethyl acetate, treated	1000	ml
BP124	Ethylene Oxide Solution R5	10	ml
BP125	Ethylene Oxide Stock Solution	10	ml
BP126	Ethylene Oxide Stock Solution R1	10	ml
BP127	Ferric Chloride Solution R3	100	ml
BP128	Ferroun Solution	100	ml
BP129	Fixing Solution	500	ml
BP130	Fixing Solution for Isoelectric Focusing in Polyacrylamide Gel	500	ml

Ref. Number	Description	Volume	Msr
BP131	Fluorenone Solution	500	ml
BP132	Formamide, treated	100	ml
BP133	Fuchsin Solution, Basic	100	ml
BP134	Fuchsin Solution, Decolorised	100	ml
BP135	Fuchsin Solution R1, Decolorised	100	ml
BP136	Holmium perchlorate solution 3x10ml	3x10	ml
BP137	Hydrochloric Acid, Brominated	100	ml
BP138	Hydrochloric Acid, Dilute	1000	ml
BP139	Hydrochloric Acid, Ethanolic (no molarity is stated)	1000	ml
BP142.1L	Hydrochloric Acid R1	1000	ml
BP143.1L	Hydrochloric Acid R1, Dilute	1000	ml
BP144.1L	Hydrochloric Acid R2, Dilute	1000	ml
BP145.L1	Hydrochloric Acid, Stannated	100	ml
BP146.L1	Hydroquinone Solution	100	ml
BP147.L1	Hydroxylamine Hydrochloride Solution R2	100	ml
BP148.L1	Hydroxylamine Solution, Alcoholic	100	ml
BP149.1L	Hydroxylamine solution, alkaline (I+II) (500ml+500ml)	500+500	ml
BP150.L2	Hydroxylamine solution, alkaline R1 (I+II) (100ml+100ml)	100+100	ml
BP151.L1	Hypophosphorous reagent	100	ml
BP152.25G	Imidazole, Recrystallised	25	g
BP153	Imidazole Solution	100	ml
BP154	Imidazole-Mercury Reagent (acc to old BP edition)	100	ml
BP155.L1	Indigo Carmine Solution	100	ml
BP157.1L	Iodine Bromide Solution	1000	ml
BP158.L1	Iodine Chloride Solution	100	ml
BP159.L1	Iodine Monochloride Reagent, Strong	100	ml
BP160.1L	Iodine Solution, Alcoholic	1000	ml
BP161.1L	Iodine Solution, Chloroformic	1000	ml
BP162.1L	Iodine Solution R4	1000	ml
BP163.L2	Iodoplatinate Reagent	200	ml
BP164.L1	Iron(III) Chloride Solution, Ethanolic	100	ml
BP165.1L	Iron(III) Chloride Solution R1	1000	ml
BP166.1L	Iron(III) Chloride Solution R2	1000	ml
BP167.1L	Iron(III) Chloride-Sulphamic Acid Reagent	1000	ml
BP168.L1	Iron(III) Nitrate Solution	100	ml
BP169.L1	Isatin Reagent	100	ml
BP170.L2	Isoniazid Solution	200	ml
BP171.1L	Lanthanum Chloride Solution	1000	ml
BP172.1L	Lanthanum Nitrate Solution	1000	ml
BP173.10G	Lead Acetate Cotton	10	g
BP174	Lead Acetate Paper (Pack of 50)	1	pack of 50
BP175.1L	Lead Acetate Solution	1000	ml
BP176.1L	Lead Nitrate Solution	1000	ml
BP177.L1	Lead Subacetate Solution	100	ml
BP178.L05	Litmus Paper Blue (Pack of 50)	1	pack of 50
BP179.L05	Litmus Paper Red (Pack of 50)	1	pack of 50
BP180.L25	Litmus Solution	250	ml
BP181.L1	Magnesium Nitrate Solution	100	ml

Ref. Number	Description	Volume	Msr
BP182.L1	Magnesium Nitrate Solution R1 (10 times concentrated)	100	ml
BP183.L1	Magneson Reagent	100	ml
BP184.L1	Magneson Solution	100	ml
BP185.L1	Malachite Green Solution	100	ml
BP186.L1	Mercury(II) Acetate Solution	100	ml
BP187.L05	Mercury(II) Bromide Paper (Pack of 50) (acc. to British Pharmacopoeia Volume IV)	1	pack of 50
BP188.L1	Mercury(II) Chloride Solution	100	ml
BP189.L1	Mercury(II) Sulfate Solution	100	ml
BP190.L1	Mercury, nitric acid solution of	100	ml
BP191.L1	Metanil Yellow Solution	100	ml
BP193.1L	Methanol, Acidified	1000	ml
BP194.1L	Methanol, Aldehyde-free	1000	ml
BP195.1L	Methanol, Anhydrous	1000	ml
BP196.L1	Methanol, Hydrochloric	100	ml
BP197.L03	Methoxyphenylacetic Acid Reagent	30	ml
BP198.L1	Methyl 4-acetylbenzoate reagent	100	ml
BP199.L1	Methyl Orange Mixed Solution	100	ml
BP200.L1	Methyl Orange Solution	100	ml
BP201.L1	Methyl Orange-Xylene Cyanol FF Solution	100	ml
BP202.L1	Methyl Red Mixed Solution	100	ml
BP203.L1	Methyl Red Solution	100	ml
BP204.L05	Methyl Thymol Blue Mixture	100	ml
BP205.L1	Molybdovanadic Reagent	100	ml
BP206.100G	Mordant Black 11 Mixed Triturate	100	g
BP207.L1	Mordant Black 11 Solution	100	ml
BP208.100G	Mordant Black 11 Triturate	100	g
BP209.L1	Naphthalene Black Solution	100	ml
BP210.L2	Naphthalenediol Reagent Solution	100	ml
BP211.L1	1-Naphthol Solution, Strong	100	ml
BP212.L1	Naphtholbenzein Solution	100	ml
BP213.L1	Neutral Red Solution	100	ml
BP214.L1	Nickel Chloride Solution, Ammoniacal	100	ml
BP215.L1	Nile Blue A Solution	100	ml
BP216.L2	Ninhydrin and stannous chloride reagent R1 (A +B)	100+100	ml
BP217.1L	Ninhydrin Reagent I	1000	ml
BP218.L1	Ninhydrin Solution	100	ml
BP219.L1	Ninhydrin Solution R1	100	ml
BP220.L1	Ninhydrin Solution R2	100	ml
BP221.L1	Sodium metabisulphite 45.5 g/l solution	100	ml
BP222.L1	Ninhydrin Solution R3	100	ml
BP223.L1	Nitric Acid, Lead-free, Dilute	100	ml
BP224.L1	Nitric Acid, Dilute	100	ml
BP225.L1	Nitrochromic Reagent	100	ml
BP226	Nitro-molybdovanadic Reagent	500	ml
BP227.1L	Oxalic Acid and Sulphuric Acid Solution	1000	ml
BP228.L1	Palladium Chloride Solution (to be diluted)	100	ml
BP229	Pararosaniline Solution, Decolorised	100	ml

Ref. Number	Description	Volume	Msr
BP230.L1	Perchloric Acid Solution	100	ml
BP231.L1	Periodic Acetic Acid Solution	100	ml
BP232.L1	Phenol Red Solution	100	ml
BP233	Phenol Red Solution R1	500	ml
BP233a	Phenol Red Solution R1	100	ml
BP234	Phenol Red Solution R2	500	ml
BP234a	Phenol Red Solution R2	100	ml
BP235	Phenol Red Solution R3	500	ml
BP235a	Phenol Red Solution R3	100	ml
BP236.L03	Phenoldisulphonic Acid Solution	30	ml
BP237	Phenolphthalein Solution	100	ml
BP238	Phenolphthalein Solution R1	100	ml
BP239	Phenolphthalein-Thymol Blue Solution	100	ml
BP240	Phenylhydrazine Hydrochloride Solution	100	ml
BP241	Phloroglucinol Solution	20	ml
BP242	Phosphomolybdotungstic Reagent	100	ml
BP243	Phosphomolybdotungstic Reagent, Dilute	100	ml
BP244	Phosphoric Acid, Dilute	1000	ml
BP245.1L	Phosphoric Acid, Dilute R1	1000	ml
BP246	Phosphotungstic Acid Solution	100	ml
BP247	Picric Acid Solution	100	ml
BP248	Picric Acid Solution R1	100	ml
BP250	Potassium Antimonate (V) Solution	100	ml
BP251	Potassium Chloride, 0.1M	1000	ml
BP252	Potassium Chromate Solution	1000	ml
BP253	Potassium Dichromate Solution	1000	ml
BP254	Potassium Dichromate Solution, Dilute	1000	ml
BP255	Potassium Dichromate Solution R1	1000	ml
BP256	Potassium Dihydrogen Phosphate, 0.2M	1000	ml
BP257	Potassium Hexacyanoferrate(II) Solution	100	ml
BP258	Potassium Hydrogen Phthalate, 0.2M	1000	ml
BP259	Potassium Hydroxide, 2M Alcoholic	100	ml
BP261	Potassium Hydroxide in Alcohol (10% v/v), 0.5M	1000	ml
BP263	Potassium Hydroxide Solution, Alcoholic	100	ml
BP264	Potassium Hydroxide Solution R1, Alcoholic	1000	ml
BP265	Potassium Iodide and Starch Solution	100	ml
BP266	Potassium Iodide Solution	1000	ml
BP267	Potassium Iodide Solution, Dilute	1000	ml
BP268	Potassium Iodide Solution, Iodinated	100	ml
BP269	Potassium Iodide Solution, Iodinated R1	100	ml
BP270	Potassium Iodide Solution, Saturated	100	ml
BP271	Potassium Iodobismuthate Solution	100	ml
BP272	Potassium Iodobismuthate Solution, Dilute	500	ml
BP273	Potassium Iodobismuthate Solution R1	500	ml
BP274	Potassium Iodobismuthate Solution R2	100	ml
BP275	Potassium Iodobismuthate Solution R3	100	ml
BP276	Potassium iodobismuthate solution R4	100	ml
BP277	Potassium Iodobismuthate Solution R5	100	ml

Ref. Number	Description	Volume	Msr
BP278	Potassium Mercuri-iodide Solution, Alkaline	100	ml
BP279	Potassium Permanganate and Phosphoric Acid Solution	100	ml
BP280	Potassium Permanganate Solution	1000	ml
BP281	Potassium Permanganate Solution, Dilute	1000	ml
BP282	Potassium Plumbite Solution	100	ml
BP283	Potassium Tetraiodomercurate Solution	100	ml
BP284	Potassium tetraiodomercurate solution, alkaline (I+II)	100+100	ml
BP285	Potassium Thiocyanate Solution	1000	ml
BP286	Pyridylazonaphthol Solution	100	ml
BP287	Quinaldine Red Solution	100	ml
BP288.L1	Quinoline Solution	100	ml
BP289	Reducing Mixture	100	ml
BP290	Ruthenium Red Solution	100	ml
BP291	Salicylaldehyde azine. C14H12N2O2. (Mr 240.3)	100	ml
BP295	Semicarbazide Acetate Solution	100	ml
BP296	Silver Manganese Paper	1	pack of 50
BP297	Silver Nitrate Reagent	100	ml
BP298	Silver Nitrate Solution in Pyridine	100	ml
BP299	Silver Nitrate Solution R1	1000	ml
BP300	Silver Nitrate Solution R2	1000	ml
BP301	Sodium Carbonate Solution	1000	ml
BP302	Sodium Carbonate Solution, Dilute	1000	ml
BP303	Sodium Carbonate Solution R1	1000	ml
BP304	Sodium Carbonate Solution R2	1000	ml
BP305	Sodium Chloride Solution	1000	ml
BP306	Sodium Hydrogen Carbonate Solution	1000	ml
BP309	Sodium Hydroxide Solution	1000	ml
BP310	Sodium Hydroxide Solution, Carbonate-free	1000	ml
BP311	Sodium Hydroxide Solution, Dilute	1000	ml
BP312	Sodium Hydroxide Solution, Methanolic	100	ml
BP313	Sodium Hydroxide Solution R1, Methanolic	100	ml
BP314	Sodium Hydroxide Solution, Strong	1000	ml
BP315	Sodium Iodobismuthate Solution (Solution A)	100	ml
BP316	Sodium Molybdotungstophosphate Solution	500	ml
BP317	Sodium Nitroprusside-Carbonate Solution	100	ml
BP318	Sodium Sulphide Solution	100	ml
BP319	Sodium Sulphide Solution R1	100	ml
BP320	Starch Iodate Paper	1	pack of 50
BP321	Starch Iodide Paper	1	pack of 50
BP322	Starch Iodide Solution	100	ml
BP323	Starch Solution	100	ml
BP324	Sudan Red Solution	100	ml
BP325	Sudan Yellow Solution	100	ml
BP326	Sulphanilic Acid Solution	100	ml
BP327	Sulphanilic Acid Solution R1	100	ml
BP328	Sulphomolybdic Reagent R2	100	ml
BP329	Sulphomolybdic Reagent R3	100	ml
BP330	Sulphuric Acid, Dilute	1000	ml

Ref. Number	Description	Volume	Msr
BP332	Sulfuric Acid Formaldehyde Reagent	1000	ml
BP334	Tetramethyldiaminodiphenylmethane reagent	1000	ml
BP335	Thioacetamide Solution	1000	ml
BP335a	Thioacetamide Solution	100	ml
BP336	Thymol Blue Solution	100	ml
BP337	Thymolphthalein Solution	100	ml
BP338	Tin(II) Chloride Solution	100	ml
BP339	Tin(II) Chloride Solution AsT	100	ml
BP340	Titan Yellow Paper	1	pack of 50
BP341	Titan Yellow Solution	100	ml
BP342	Titanium(III) Chloride-Sulphuric Acid Reagent	100	ml
BP344	o-Tolidine Solution	500	ml
BP345	Trichloroacetic Acid Solution	1000	ml
BP346	Triphenyltetrazolium Chloride Solution	100	ml
BP347	Tris(hydroxymethyl)methylamine Solution	100	ml
BP348	Tris(hydroxymethyl)methylamine Solution, Methanol	1000	ml
BP349	Vanillin Solution, Phosphoric	100	ml
BP350	Water	5000	ml
BP351	Water, Ammonium-free	1000	ml
BP352	Water, Carbon Dioxide-free	1000	ml
BP353	Water for Chromatography	1000	ml
BP354	Water, Nitrate-free	1000	ml
BP355	Water, Particle-free	1000	ml
BP356	Xanthydrol Reagent (without HCl)	100	ml
BP357	Xanthydrol Solution	100	ml
BP358	Xylenol Orange Solution	100	ml
BP359	Xylenol Orange Triturate	50	ml
BP360	Zinc Acetate Solution	1000	ml
BP361.10G	Zinc, Activated	10	g
BP363	Zinc Chloride Solution, Iodinated	1000	ml
BP364	Zinc Iodide and Starch Solution	100	ml
BP365	Zirconyl Nitrate Solution	100	ml

Volumetric Reagents and Solutions

Primary standards

The following materials, after drying under the specified conditions, are recommended for use as primary standards in the standardisation of volumetric solutions.

Ref. Number	Description	Volume	Msr
BP647.50G	Primary standards Potassium Hydrogen Phthalate	50	g
BP648.50G	Primary standards Potassium Iodate	50	g
BP649.50G	Primary standards Sodium Carbonate, Anhydrous	50	g
BP650.250G	Primary standards Sodium Chloride	250	g

Volumetric Solutions

Volumetric solutions are prepared according to the usual chemical analytical methods. The accuracy of the apparatus used is verified to ensure that it is appropriate for the intended use. The concentration of volumetric solutions is indicated in terms of molarity (M). The molarity of a solution is the number of moles of substance contained in 1000 ml of the solution. A solution that contains x moles of substance per litre is said to be xM. The molarity of the volumetric solutions is determined by an appropriate number of titrations. The accuracy does not exceed 0.2% (relative standard deviation).

Ref. Number	Description	Volume	Msr
BP653	Acetic Acid 0.1M	1000	ml
BP655	Ammonium and cerium nitrate 0.01 M	1000	ml
BP654	Ammonium and cerium nitrate 0.1 M	1000	ml
BP657	Ammonium and cerium sulphate 0.01M	1000	ml
BP656	Ammonium and cerium sulphate 0.1M	1000	ml
BP658	Ammonium Iron(II) Sulphate	1000	ml
BP659	Ammonium Iron(III) Sulphate	1000	ml
BP660	Ammonium thiocyanate 0.1M	1000	ml
BP661	Barium chloride 0.1M	1000	ml
BP663	Barium perchlorate 0.025M	1000	ml
BP662	Barium perchlorate 0.05M	1000	ml
BP664	Benzethonium chloride 0.004 M	1000	ml
BP644.100G	Benzoic Acid	100	g
BP665	Bromine 0.05M	1000	ml
BP666	Cerium (IV) sulfate 0.1 M	1000	ml
BP667	Copper sulphate 0.02M	1000	ml
BP670	Disodium edetate 0.01M	1000	ml
BP669	Disodium edetate 0.02M	1000	ml
BP668	Disodium edetate 0.05M	1000	ml
BP675	Hydrochloric acid 0.1M	1000	ml
BP674	Hydrochloric acid 1M	1000	ml
BP673	Hydrochloric acid 2M	1000	ml
BP672	Hydrochloric acid 3M	1000	ml
BP671	Hydrochloric acid 6M	1000	ml
BP678	Iodine 0.01M	1000	ml
BP677	Iodine 0.05M	1000	ml
BP676	Iodine 0.5M	1000	ml
BP679	Iron(II) Sulphate 0.1M	1000	ml
BP680	Lead nitrate 0.05M	1000	ml
BP681	Lead nitrate 0.1M	1000	ml
BP682	Magnesium chloride 0.1M	1000	ml
BP683	Magnesium Sulphate 0.05M	1000	ml
BP684	Nitric acid 1M	1000	ml
BP686	Perchloric acid 0.05M	1000	ml
BP685	Perchloric acid 0.1M	1000	ml
BP645.50G	Potassium Bromate	50	g
BP690	Potassium bromate 0.0083M	1000	ml

Ref. Number	Description	Volume	Msr
BP689	Potassium bromate 0.0167M	1000	ml
BP688	Potassium bromate 0.02M	1000	ml
BP687	Potassium bromate 0.033M	1000	ml
BP646.80G	Potassium Dichromate	80	g
BP691	Potassium dichromate 0.0167M	1000	ml
BP692	Potassium Hydroxide 0.1M	1000	ml
BP693	Potassium Hydroxide 1M	1000	ml
BP696	Potassium Hydroxide alcoholic 0.01M	1000	ml
BP695	Potassium Hydroxide alcoholic 0.1M	1000	ml
BP694	Potassium Hydroxide alcoholic 0.5M	1000	ml
BP697	Potassium Hydroxide in alcohol (60% v/v) 0.5M	1000	ml
BP698	Potassium Hydroxide in alcohol (90% v/v) 1M	1000	ml
BP699	Potassium iodate 0.05M	1000	ml
BP700	Potassium iodide 0.001M	1000	ml
BP701	Potassium permanganate 0.02M	1000	ml
BP703	Silver nitrate 0.001M	1000	ml
BP702	Silver nitrate 0.1M	1000	ml
BP704	Sodium arsenite 0.1M	500	ml
BP706	Sodium hydroxide 0.1M	1000	ml
BP705	Sodium hydroxide 1M	1000	ml
BP707	Sodium hydroxide, ethanolic 0.1M	1000	ml
BP708	Sodium methoxide 0.1M	1000	ml
BP709	Sodium nitrite 0.1M	1000	ml
BP710	Sodium thiosulphate 0.1M	1000	ml
BP651.100G	Sulfanilic acid	100	g
BP712	Sulphuric acid 0.05M	1000	ml
BP711	Sulphuric acid 0.5M	1000	ml
BP713	Tetrabutylammonium hydroxide 0.1M	1000	ml
BP714	Tetrabutylammonium hydroxide in 2-propanol 0.1M	1000	ml
BP715	Tetrabutylammonium iodide 0.01M	1000	ml
BP652.100G	Zinc	100	g
BP716	Zinc chloride 0.05M	1000	ml
BP717	Zinc sulphate 0.1M	1000	ml

Standards Solutions

The following solutions are used as reference standards in limit tests.

Ref. Number	Description	Volume	Msr
BP366	Acetaldehyde Standard Solution (100 mg/l C ₂ H ₄ O) 100 times concentrated	100	ml
BP369	Aluminium standard solution (100 ppm Al) 10 times concentrated	100	ml
BP371	Aluminium standard solution (2 ppm Al) 100 times concentrated	100	ml
BP372	Ammonium Standard Solution (100 ppm NH ₄) concentrated	100	ml
BP373	Ammonium standard solution (2.5 ppm NH ₄) 100 times concentrated	100	ml
BP374	Ammonium Standard Solution (1 ppm NH ₄) concentrated	100	ml
BP375	Antimony standard solution (1 mg/l Sb) 1000 times concentrated	100	ml
BP376	Antimony Standard Solution 100 mg/l Sb	100	ml

Ref. Number	Description	Volume	Msr
BP376a	Antimony Standard Solution 100 mg/l Sb	100	ml
BP377	Arsenic standard solution (10 ppm As) 100 times concentrated	100	ml
BP378	Arsenic Standard Solution (1 mg/l As) 1000 times concentrated	100	ml
BP380	Barium Standard Solution 0.1% Ba	100	ml
BP380a	Barium Standard Solution 0.1% Ba	1000	ml
BP381	Barium Standard Solution 50 mg/l Ba	100	ml
BP382	Bismuth Standard Solution 100 mg/l Bi	100	ml
BP383	Cadmium Standard Solution 0.1% Cd	100	ml
BP384	Cadmium Standard Solution (10 mg/l Cd) (concentrate to be diluted)	100	ml
BP385	Calcium Standard Solution (400 ppm Ca) 10 times concentrated	100	ml
BP386	Calcium Standard Solution 100 mg/l Ca	100	ml
BP387	Calcium Standard Solution Alcoholic 100 mg/l Ca	100	ml
BP387a	Calcium Standard Solution Alcoholic 100 mg/l Ca	1000	ml
BP388	Calcium Standard Solution R1 100 mg/l Ca	100	ml
BP389	Calcium Standard Solution 10 mg/l Ca	100	ml
BP390	Chloride Standard Solution 50 mg/l Cl (10 times concentrated)	100	ml
BP391	Chloride standard solution (8 mg/l Cl) 100 times concentrated	100	ml
BP393	Chromium Standard Solution 0.1% Cr	100	ml
BP393a	Chromium Standard Solution 0.1% Cr	1000	ml
BP394	Chromium Standard Solution 100 mg/l Cr	100	ml
BP394a	Chromium Standard Solution 100 mg/l Cr	1000	ml
BP395	Chromium Standard Solution 0.1 mg/l Cr	100	ml
BP395a	Chromium Standard Solution 0.1 mg/l Cr	1000	ml
BP396	Cobalt Standard Solution 100 mg/l Co	100	ml
BP396a	Cobalt Standard Solution 100 mg/l Co	1000	ml
BP397	Copper Standard Solution 0.1% Cu	100	ml
BP398	Copper Standard Solution 10 mg/l Cu (concentrate to be diluted)	100	ml
BP402	Fluoride Standard Solution 10 mg/l F (20 times concentrated)	100	ml
BP404	Formaldehyde Standard Solution (5 ppm CH ₂ O) concentrate	100	ml
BP405	Germanium Standard Solution 100 mg/l Ge	100	ml
BP406	Glucose Standard Solution	100	ml
BP407	Glyoxal Standard Solution 20 ppm C ₂ H ₂ O ₂ - concentrate to be diluted (2000 ppm C ₂ H ₂ O ₂)	100	ml
BP408	Iodide Standard Solution 20 mg/l I	100	ml
BP409	Iodide Standard Solution (10 ppm I) concentrated	100	ml
BP410	Iron Standard Solution 0.1% Fe	100	ml
BP411	Iron Standard Solution 250 mg/l Fe	100	ml
BP412	Iron standard solution (200 ppm Fe) 10 times concentrated	100	ml
BP413	Iron Standard Solution 10 mg/l Fe 100 times concentrated (1000 ppm Fe)	100	ml
BP417	Lead Standard Solution (0.1% Pb)	100	ml
BP418	Lead Standard Solution 0.1% Pb R1	100	ml
BP418a	Lead Standard Solution 0.1% Pb R1	250	ml
BP419	Lead standard solution (100 ppm Pb) 10 times concentrated	100	ml
BP420	Lead Standard Solution (20 mg/l Pb) concentrate to be diluted (2000 ppm Pb)	100	ml
BP422	Lead Standard Solution (10 ppm Pb) R1 10 times concentrated (100 ppm Pb)	100	ml
BP427	Lead Standard Solution (0.1 mg/l Pb) concentrate to be diluted (0.1 per cent Pb)	100	ml
BP428	Lithium Standard Solution 100 mg/l Li	100	ml
BP429	Magnesium Standard Solution 0.1% Mg	100	ml

Ref. Number	Description	Volume	Msr
BP430	Magnesium Standard Solution (100 ppm Mg) 10 times concentrated (1000 ppm Mg)	100	ml
BP431	Magnesium Standard Solution (10 ppm Mg) 10 times concentrated (1000 ppm Mg)	100	ml
BP432	Magnesium Standard Solution (10 mg/l Mg) R1 100 times concentrated	100	ml
BP433	Manganese Standard Solution 100 mg/l Mn	100	ml
BP436	Mercury Standard Solution (10 mg/l Hg) 100 times concentrated	100	ml
BP438	Nickel Standard Solution (10 mg/l Ni) 100 times concentrated	100	ml
BP441	Nitrate Standard Solution 100 mg/l NO ₃ (10 times concentrated)	100	ml
BP442	Nitrate Standard Solution 10 mg/l NO ₃ (100 times concentrated)	100	ml
BP443	Nitrate Standard Solution 2 ppm NO ₃ (500 times concentrated)	100	ml
BP444	Nitrite Standard Solution 20 mg/l NO ₂	100	ml
BP445	Palladium Standard Solution 500 mg/l Pd	100	ml
BP446	Palladium Standard Solution (20 mg/l Pd) 10 times concentrated	100	ml
BP448	Phosphate Standard Solution 200 mg/l PO ₄	100	ml
BP449	Phosphate Standard Solution 100 mg/l PO ₄ (10 times concentrated)	100	ml
BP450	Phosphate Standard Solution 5 mg/l PO ₄ -100 times concentrated	100	ml
BP451	Platinum Standard Solution (30 mg/l Pt) 10 times concentrated	100	ml
BP452	Potassium Standard Solution 0.2 % K	100	ml
BP453	Potassium Standard Solution (600 mg/l K) 20 times concentrated	100	ml
BP456	Selenium Standard Solution 100 mg/l Se	100	ml
BP457	Selenium Standard Solution (1 mg/l Se) 40 times concentrated	100	ml
BP458	Silver Standard Solution 5 mg/l Ag	100	ml
BP459	Sodium Standard Solution 200 mg/l Na	100	ml
BP460	Sodium Standard Solution 50 mg/l Na	100	ml
BP461	Strontium Standard Solution 1.0 per cent Sr	100	ml
BP462	Sulfate Standard Solution (100 ppm SO ₄)	100	ml
BP463	Sulfate Standard Solution (10 ppm SO ₄) 100 times concentrated	100	ml
BP464	Sulfate Standard Solution (10 ppm SO ₄) R1	100	ml
BP466	Thallium Standard Solution (10 mg/l Tl) 10 times concentrated	100	ml
BP468	Titanium Standard Solution 100 mg/l Ti	100	ml
BP469	Vanadium Standard Solution 1 g/l V	100	ml
BP470	Zinc Standard Solution 5 mg/ml Zn	100	ml
BP470a	Zinc Standard Solution 5 mg/ml Zn	500	ml
BP471	Zinc Standard Solution (100 mg/l Zn) 10 times concentrated	100	ml
BP475	Zirconium Standard Solution 1 g/l Zr	100	ml

Buffer Solutions

Buffer solutions are prepared using carbon dioxide-free water.

Ref. Number	Description	Volume	Msr
BP476	Acetate Buffer pH 2.4	1000	ml
BP477	Acetate Buffer pH 2.8	1000	ml
BP478	Acetate Buffer pH 3.4	1000	ml
BP479	Acetate Buffer pH 3.5	1000	ml
BP480	Acetate Buffer pH 3.7	1000	ml
BP481	Acetate Buffer pH 4.4	1000	ml
BP482	Acetate Buffer pH 4.6	1000	ml

Ref. Number	Description	Volume	Msr
BP483	Acetate Buffer pH 5.0	1000	ml
BP484	Acetate Buffer pH 6.0	1000	ml
BP485	Acetate Buffer Solution pH 4.5	1000	ml
BP486	Acetate Buffer Solution pH 4.7	1000	ml
BP487	Acetate Buffer Solution pH 5.0	1000	ml
BP488	Acetate-Edetate Buffer Solution pH 5.5	1000	ml
BP489	Acetone Solution, Buffered	1000	ml
BP490	Ammonia Buffer pH 10.0	1000	ml
BP491	Ammonia Buffer pH 10.9	1000	ml
BP492	Ammonia Buffer pH 10.9, Dilute	1000	ml
BP494	Ammonium Chloride Buffer Solution pH 9.5	1000	ml
BP493	Ammonium Carbonate Buffer Solution 0.1M pH 10.3	1000	ml
BP495	Ammonium Chloride Buffer Solution pH 10.4	1000	ml
BP496	Borate Buffer pH 7.5	1000	ml
BP497	Borate Buffer pH 8.0	1000	ml
BP498	Borate Buffer pH 9.0	1000	ml
BP499	Borate Buffer pH 9.6	1000	ml
BP500	Borate Buffer Solution 0.0015M pH 8.0	1000	ml
BP501	Borate Buffer Solution pH 10.4	1000	ml
BP502	Boric Buffer pH 9.0	1000	ml
BP503	Buffer (Acetate) Solution pH 5.0	1000	ml
BP504	Buffer (HEPES) Solution pH 7.5	1000	ml
BP505	Buffer (Phosphate) Solution pH 9.0	1000	ml
BP506	Buffer Solution pH 2.0	1000	ml
BP507	Buffer Solution pH 2.2	1000	ml
BP508	Buffer Solution pH 2.5	1000	ml
BP510	Buffer Solution pH 3.0	1000	ml
BP511	Buffer Solution pH 3.7	1000	ml
BP512	Buffer Solution pH 5.2	1000	ml
BP513	Buffer Solution pH 5.5	1000	ml
BP514	Buffer Solution pH 6.5	1000	ml
BP515	Buffer Solution pH 6.6	1000	ml
BP516	Buffer Solution pH 7.0	1000	ml
BP517	Buffer Solution pH 7.4	1000	ml
BP509	Buffer Solution R1 pH 2.5	1000	ml
BP518	Buffer Solution R1 pH 8.0	1000	ml
BP519	Buffered Salt Solution pH 7.2	1000	ml
BP520	Carbonate Buffer pH 9.7	1000	ml
BP521	Chloride Buffer 0.1M pH 2.0	1000	ml
BP523	Citrate Buffer Solution 0.25M pH 3.0	1000	ml
BP522	Citrate Buffer Solution pH 5.0	1000	ml
BP524	Citro-phosphate Buffer pH 4.5	1000	ml
BP525	Citro-phosphate Buffer pH 5.0	1000	ml
BP526	Citro-phosphate Buffer pH 6.0	1000	ml
BP527	Citro-phosphate Buffer pH 6.5	1000	ml
BP528	Citro-phosphate Buffer pH 6.8	1000	ml
BP529	Citro-phosphate Buffer pH 7.0	1000	ml
BP530	Citro-phosphate Buffer pH 7.2	1000	ml

Ref. Number	Description	Volume	Msr
BP531	Citro-phosphate Buffer pH 7.6	1000	ml
BP532	Copper Sulphate Solution Buffered pH 4.0	1000	ml
BP533	Copper Sulphate Solution Buffered pH 5.2	1000	ml
BP534	Diethanolamine Buffer Solution pH 10.0	1000	ml
BP535	Diethylammonium Phosphate Buffer Solution pH 6.0	1000	ml
BP537	Glycine Buffer pH 11.3	1000	ml
BP536	Glycine Buffer pH 2.9	1000	ml
BP538	Glycine Buffer Solution	1000	ml
BP539	Imidazole Buffer Solution pH 6.5	1000	ml
BP540	Imidazole Buffer Solution pH 7.3	1000	ml
BP541	Maleate Buffer Solution pH 7.0	1000	ml
BP563	Phosphate Buffer 0.067M Mixed pH 7.0	1000	ml
BP564	Phosphate Buffer 0.1M Mixed pH 7.0	1000	ml
BP561	Phosphate Buffer 0.2M Mixed pH 6.8	1000	ml
BP566	Phosphate Buffer Mixed pH 10	1000	ml
BP556	Phosphate Buffer Mixed pH 4.0	1000	ml
BP559	Phosphate Buffer Mixed pH 5.4	1000	ml
BP560	Phosphate Buffer Mixed pH 6.8	1000	ml
BP562	Phosphate Buffer Mixed pH 7.0	1000	ml
BP553	Phosphate Buffer pH 3.0	1000	ml
BP554	Phosphate Buffer pH 3.5	1000	ml
BP555	Phosphate Buffer pH 4.0	1000	ml
BP557	Phosphate Buffer pH 4.75	1000	ml
BP558	Phosphate Buffer pH 4.9	1000	ml
BP542	Phosphate Buffer pH 5.8	1000	ml
BP543	Phosphate Buffer pH 6.0	1000	ml
BP544	Phosphate Buffer pH 6.2	1000	ml
BP545	Phosphate Buffer pH 6.4	1000	ml
BP546	Phosphate Buffer pH 6.8	1000	ml
BP547	Phosphate Buffer pH 7.0	1000	ml
BP548	Phosphate Buffer pH 7.2	1000	ml
BP549	Phosphate Buffer pH 7.4	1000	ml
BP565	Phosphate Buffer pH 7.5	1000	ml
BP550	Phosphate Buffer pH 7.6	1000	ml
BP552	Phosphate Buffer pH 8.0	1000	ml
BP595	Phosphate Buffer Solution 0.025M pH 7.0	1000	ml
BP602	Phosphate Buffer Solution 0.02M pH 8.0	1000	ml
BP596	Phosphate Buffer Solution 0.03M pH 7.0	1000	ml
BP576	Phosphate Buffer Solution 0.05M pH 4.5	1000	ml
BP597	Phosphate Buffer Solution 0.05M pH 7.0	1000	ml
BP598	Phosphate Buffer Solution 0.063M pH 7.0	1000	ml
BP578	Phosphate Buffer Solution 0.067M pH 5.4	1000	ml
BP571	Phosphate Buffer Solution 0.1M pH 3.0	1000	ml
BP584	Phosphate Buffer Solution 0.1M pH 6.3	1000	ml
BP587	Phosphate Buffer Solution 0.1M pH 6.5	1000	ml
BP603	Phosphate Buffer Solution 0.1M pH 8.0	1000	ml
BP601	Phosphate Buffer Solution 0.33M pH 7.5	1000	ml
BP604	Phosphate Buffer Solution 1M pH 8.0	1000	ml

Ref. Number	Description	Volume	Msr
BP568	Phosphate Buffer Solution pH 2.0	1000	ml
BP569	Phosphate Buffer Solution pH 2.8	1000	ml
BP570	Phosphate Buffer Solution pH 3.0	1000	ml
BP573	Phosphate Buffer Solution pH 3.2	1000	ml
BP575	Phosphate Buffer Solution pH 3.5	1000	ml
BP577	Phosphate Buffer Solution pH 5.0	1000	ml
BP579	Phosphate Buffer Solution pH 5.5	1000	ml
BP580	Phosphate Buffer Solution pH 5.6	1000	ml
BP581	Phosphate Buffer Solution pH 5.8	1000	ml
BP585	Phosphate Buffer Solution pH 6.4	1000	ml
BP586	Phosphate Buffer Solution pH 6.5	1000	ml
BP588	Phosphate Buffer Solution pH 6.8	1000	ml
BP589	Phosphate Buffer Solution pH 7.0	1000	ml
BP599	Phosphate Buffer Solution pH 7.2	1000	ml
BP600	Phosphate Buffer Solution pH 7.4	1000	ml
BP643	Phosphate Buffer Solution pH 8.5	1000	ml
BP605	Phosphate Buffer Solution pH 9.0	1000	ml
BP572	Phosphate Buffer Solution R1 pH 3.0	1000	ml
BP574	Phosphate Buffer Solution R1 pH 3.2	1000	ml
BP582	Phosphate Buffer Solution R1 pH 6.0	1000	ml
BP590	Phosphate Buffer Solution R1 pH 7.0	1000	ml
BP583	Phosphate Buffer Solution R2 pH 6.0	1000	ml
BP591	Phosphate Buffer Solution R2 pH 7.0	1000	ml
BP592	Phosphate Buffer Solution R3 pH 7.0	1000	ml
BP593	Phosphate Buffer Solution R4 pH 7.0	1000	ml
BP594	Phosphate Buffer Solution R5 pH 7.0	1000	ml
BP567	Phosphate Buffer, 0.025M Standard	1000	ml
BP606	Phosphate Citrate Buffer Solution pH 5.5	1000	ml
BP607	Phthalate Buffer pH 3.6	1000	ml
BP609	Phthalate Buffer Solution 0.5M pH 6.4	1000	ml
BP608	Phthalate Buffer Solution pH 4.4	1000	ml
BP614	Saline , Phosphate-buffered pH 7.4	1000	ml
BP612	Saline Phosphate-albumin Buffered pH 7.2	1000	ml
BP610	Saline Phosphate-buffered pH 6.4	1000	ml
BP611	Saline Phosphate-buffered pH 6.8	1000	ml
BP613	Saline R1, Phosphate-albumin Buffered pH 7.2	1000	ml
BP615	Sodium Acetate Buffer Solution pH 4.5	1000	ml
BP616	Sodium Acetate Solution , Buffered pH 6.0	1000	ml
BP617	Sodium Citrate Buffer Solution(0.034M Sodium Citrate, 0.101M Sodium Chloride)	1000	ml
BP618	Succinate Buffer Solution pH 4.6	1000	ml
BP619	Sulphate Buffer Solution pH 2.0	1000	ml
BP620	Tetrabutylammonium Buffer Solution pH 7.0	1000	ml
BP622	Total Ionic Strength Adjustment Buffer	1000	ml
BP621	Total Ionic Strength Adjustment Buffer R1	1000	ml
BP637	Tris(hydroxymethyl)aminomethane Sodium Chloride Buffer solution pH 7.4	1000	ml
BP638	Tris(hydroxymethyl)aminomethane Sodium Chloride Buffer Solution pH 7.4 R1	1000	ml
BP623	Tris-acetate Buffer Solution pH 8.0	1000	ml

Ref. Number	Description	Volume	Msr
BP624	Tris-chloride Buffer pH 7.4	1000	ml
BP625	Tris-chloride Buffer pH 7.5	1000	ml
BP627	Tris-chloride Buffer pH 8.1	1000	ml
BP628	Tris-chloride Buffer pH 8.6	1000	ml
BP626	Tris-chloride Buffer R1 pH 7.5	1000	ml
BP630	Tris-EDTA BSA Buffer Solution pH 8.4	1000	ml
BP629	Tris-EDTA Buffer pH 8.4	1000	ml
BP631	Tris-glycine Buffer Solution pH 8.3	1000	ml
BP636	Tris-hydrochloride Buffer Solution 1,5M pH 8.8	1000	ml
BP634	Tris-hydrochloride Buffer Solution 1M pH 6.8	1000	ml
BP633	Tris-hydrochloride Buffer Solution 1M pH 8.0	1000	ml
BP635	Tris-hydrochloride Buffer Solution pH 8.0	1000	ml
BP632	Tris-hydrochloride Buffer Solution pH 8.3	1000	ml
BP639	Tris-sodium Acetate Buffer Solution pH 7.4	1000	ml
BP641	Tris-sodium Acetate Buffer Solution pH 8.0	1000	ml
BP640	Tris-sodium Acetate-sodium Chloride Buffer Solution pH 7.4	1000	ml
BP642	Tris-sodium Acetate-Sodium Chloride Buffer Solution pH 8.0	1000	ml

Clarity of Solution

Ref. Number	Description	Volume	Msr
BPC001	Primary opalescent suspension	100	ml
BPC003	Hexamethylenetetramine solution	100	ml
BPC002	Hydrazine sulfate solution	100	ml

Colour of Solution

Primary Solutions

Ref. Number	Description	Volume	Msr
BPCB004	Primary solution Blue	100	ml
BPCR003	Primary solution Red	100	ml
BPCY002	Primary solution Yellow	100	ml

Opalescence and coloration Solutions

Ref. Number	Description	Volume	Msr
BPB105	Colour Reference Solutions B: B1-B9 (9x2 ml ampoules) + empty tube	9x2 + 1x2	ml
BPBY106	Colour Reference Solutions BY: BY1-BY7 (7x2 ml ampoules + empty tube)	7x2 + 1x2	ml
BPGY108	Colour Reference Solutions GY: GY1-GY7 (7x2 ml ampoules + empty tube)	7x2 + 1x2	ml
BPR109	Colour Reference Solutions R: R1-R7 (7x2 ml ampoules + empty tube)	7x2 + 1x2	ml
BPY107	Colour Reference Solutions Y (yellow): Y1-Y7 (7x2 ml ampoules + empty tube)	7x2 + 1x2	ml
BPB005	Standard solution B (brown)	125	ml
BPBY006	Standard solution BY (brownish yellow)	125	ml

Ref. Number	Description	Volume	Msr
BPGY008	Standard solution GY (greenish yellow)	125	ml
BPR009	Standard solution R (red)	125	ml
BPY007	Standard solution Y (yellow)	125	ml
BPDM015	Hydrochloric Acid (Dilution Matrix)	1000	ml

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Buffer Solutions

Ref. Number	Description	Volume	Msr
CH8004002.1L	Acetate Buffer Solution (pH 3.5)	1000	ml
CH8004008.1L	Ammonia - Ammonium Chloride Buffer Solution (pH 10.0)	1000	ml
CH8004007.1L	Ammonia - Ammonium Chloride Buffer Solution (pH 8.0)	1000	ml
CH8004006.1L	Ammonium Acetate - Ethanol Buffer Solution (pH 3.7)	1000	ml
CH8004003.1L	Ammonium Acetate Buffer Solution (pH 4.5)	1000	ml
CH8004004.1L	Ammonium Acetate Buffer Solution (pH 4.8)	1000	ml
CH8004005.1L	Ammonium Acetate Buffer Solution (pH 6.0)	1000	ml
CH8004012.1L	Borate-Potassium Chloride Buffer Solution (pH 9.0)	1000	ml
CH8004013.1L	Borax - Calcium Chloride Buffer Solution (pH 8.0)	1000	ml
CH8004016.1L	Citrate - Disodium Hydrogen Phosphate Buffer Solution (pH 4.0)	1000	ml
CH8004017.1L	Citrate - Disodium Hydrogen Phosphate Buffer Solution (pH 7.0)	1000	ml
CH8004014.1L	Citrate Buffer Solution	1000	ml
CH8004015.1L	Citrate Buffer Solution (pH 6.2)	1000	ml
CH8004033.1L	Phosphate - Triethylamine Buffer Solution (pH 3.2)	1000	ml
CH8004018.1L	Phosphate Buffer Solution	1000	ml
CH8004019.1L	Phosphate Buffer Solution (pH 2.0)	1000	ml
CH8004020.1L	Phosphate Buffer Solution (pH 2.5)	1000	ml
CH8004021.1L	Phosphate Buffer Solution (pH 5.0)	1000	ml
CH8004022.1L	Phosphate Buffer Solution (pH 5.8)	1000	ml
CH8004023.1L	Phosphate Buffer Solution (pH 6.5)	1000	ml
CH8004024.1L	Phosphate Buffer Solution (pH 6.6)	1000	ml
CH8004025.1L	Phosphate Buffer Solution (pH 6.8)	1000	ml
CH8004026.1L	Phosphate Buffer Solution (pH 7.0)	1000	ml
CH8004027.1L	Phosphate Buffer Solution (pH 7.2)	1000	ml
CH8004028.1L	Phosphate Buffer Solution (pH 7.3)	1000	ml
CH8004029.1L	Phosphate Buffer Solution (pH 7.4)	1000	ml
CH8004030.1L	Phosphate Buffer Solution (pH 7.6)	1000	ml
CH8004031.1L	Phosphate Buffer Solution (pH 7.8)	1000	ml
CH8004032.1L	Phosphate Buffer Solution (pH 7.8-8.0)	1000	ml
CH8004034.1L	Phthalate Buffer Solution (pH 5.6)	1000	ml
CH8004035.1L	Potassium Acetate Buffer Solution (pH4.3)	1000	ml
CH8004036.1L	Potassium biphthalate - Sodium Hydroxide Buffer Solution (pH 5.0)	1000	ml
CH8004037.1L	Sodium Acetate Buffer Solution	1000	ml
CH8004038.1L	Sodium Acetate Buffer Solution (pH 3.6)	1000	ml
CH8004039.1L	Sodium Acetate Buffer Solution (pH 3.7)	1000	ml
CH8004040.1L	Sodium Acetate Buffer Solution (pH 3.8)	1000	ml
CH8004041.1L	Sodium Acetate Buffer Solution (pH 4.5)	1000	ml
CH8004042.1L	Sodium Acetate Buffer Solution (pH 4.6)	1000	ml
CH8004043.L2	Sodium Formate Buffer Solution (pH 3.3)	1000	ml
CH8004001.1L	Sodium Lauryl Sulfate 0.5% in Phosphate Buffer Solution	1000	ml
CH8004044.1L	Triethylamine Buffer Solution (pH 3.2)	1000	ml
CH8004045.L25	Urotropine BS	250	ml

Determination of pH Value

Ref. Number	Description	Volume	Msr
CHPH016.1L	Standard biphthalate BS	1000	ml
CHPH017.1L	Standard phosphate BS	1000	ml
CHPH019.1L	Standard sodium tetraborate BS	1000	ml
CHPH014.1L	Standard tetraoxalate BS	1000	ml

Colour of Solution

Ref. Number	Description	Volume	Msr
CHOP001	Clarity of Solution (0902): Opalescence reference standard stock solution	100	ml
CH003	Colour of Solution (0901): Cobaltous chloride standard solution	100	ml
CH004	Colour of Solution (0901): Cupric sulfate standard solution	100	ml
CH002	Colour of Solution (0901): Potassium dichromate standard solution	100	ml
CH002.L5	Colour of Solution (0901): Potassium dichromate standard solution	500	ml
CHGY102	Colour of Solution (0901): Reference Solutions GY (greenish-yellow) (11x10 ml ampoules) + empty tube	11x10 + 1x10	ml
CHOR103	Colour of Solution (0901): Reference Solutions OR (orange-red) (11x10 ml ampoules) + empty tube	11x10 + 1x10	ml
CHOY104	Colour of Solution (0901): Reference Solutions OY (orange-yellow) (11x10 ml ampoules) + empty tube	11x10 + 1x10	ml
CHBR001	Colour of Solution (0901): Stock reference solution BR (brownish-red)	125	ml
CHGY002	Colour of Solution (0901): Stock reference solution GY (greenish-yellow)	125	ml
CHOR003	Colour of Solution (0901): Stock reference solution OR (orange-red)	125	ml
CHOY004	Colour of Solution (0901): Stock reference solution OY (orange-yellow)	125	ml
CHYY005	Colour of Solution (0901): Stock reference solution Y (yellow)	125	ml
CHYG006	Colour of Solution (0901): Stock reference solution YG (yellowish-green)	125	ml
CHBR101	Colour Reference Solutions BR (Brownish-Red) acc. to Ph. Ch. (11x10 ml ampoules + empty tube)	11x10 + 1x10	ml
CHYY105	Colour Reference Solutions Y (yellow) acc. to Ph. Ch. (11x10 ml ampoules) + empty tube	11x10 + 1x10	ml
CHYG106	Colour Reference Solutions YG (yellowish-green) acc. to Ph. Ch. (11x10 ml ampoules) + empty tube	11x10 + 1x10	ml

Solutions for determination of Pb, Cd, As, Hg, Cu

Ref. Number	Description	Volume	Msr
CHA003.L1	Determination of Arsenic (As) (2321): Arsenic standard stock solution (1 ug/ml As)	100	ml
CHM041.L1	ICP/MS Determination of Arsenic (As) (2321): Arsenic reference stock solution (0.5 ug/ml As)	100	ml
CHA010.L1	Determination of Cadmium (Cd) (2321): Cadmium standard stock solution (1 ug/ml Cd)	100	ml
CHM241.L1	ICP/MS Determination of Cadmium (Cd) (2321): Cadmium reference stock solution (1 ug/ml Cd)	100	ml
CHA015.L1	Determination of Copper (Cu) (2321): Copper standard stock solution (1 ug/ml Cu)	100	ml

Ref. Number	Description	Volume	Msr
CHM015.L1	ICP/MS Determination of Copper (Cu) (2321): Copper reference stock solution (1 ug/ml Cu)	100	ml
CHA024.L1	Determination of Mercury (Hg) (2321): Mercury standard stock solution (1 ug/ml Hg)	100	ml
CHM024.L1	ICP/MS Determination of Mercury (Hg) (2321): Mercury reference stock solution (1 ug/ml Hg)	100	ml
CHA041.L1	Determination of Lead (Pb) (2321): Lead standard stock solution (1 ug/ml Pb)	100	ml
CHM210.L1	ICP/MS Determination of Lead (Pb) (2321): Lead reference stock solution (1 ug/ml Pb)	100	ml

Solutions for determination of Protein Content

Ref. Number	Description	Volume	Msr
CH07311.1L	Alkaline Copper TS (I+II)	500+500	ml
CH1011601.1L	Biuret TS	1000	ml
CH1012201.L1	Coomassie Acid Staining Solution	100	ml
CH07312.1L	Determination of protein content method 2.2 : Solution A	1000	ml
CH07313.1L	Determination of protein content method 2.2 : Solution B (I+II)	500+500	ml
CH07314.L1	Sodium deoxycholate solution (Determination of protein content method 2.2)	100	ml

Indicator Solutions

Ref. Number	Description	Volume	Msr
CH8005001.L04	Azo Violet Indicator Solution	40	ml
CH8005002.L04	Brilliant Green Indicator Solution	40	ml
CH8005003.L04	Bromocresol Green Indicator Solution	40	ml
CH8005004.L04	Bromocresol Purple Indicator Solution	40	ml
CH8005005.L04	Bromophenol Blue Indicator Solution	40	ml
CH8005006.L04	Bromothymol Blue Indicator Solution	40	ml
CH8005007.L04	Congo Red Indicator Solution	40	ml
CH8005008.L04	Cresol Red Indicator Solution	40	ml
CH8005009.L04	m-Cresol Purple Indicator Solution	40	ml
CH8005010.L04	Cresol Red - Thymol Blue Indicator Solution	40	ml
CH8005011.L04	Crystal Violet Indicator Solution	40	ml
CH8005012.L04	Dimethyl Yellow Indicator Solution	40	ml
CH8005013.L04	Diphenylcarbazide Indicator Solution	40	ml
CH8005014.L04	Dithizone (Diphenylthiocarbazone) Indicator Solution	40	ml
CH8005015.L04	Eriochrome Black T Indicator Mixture	40	ml
CH8005016.L04	Eosin Sodium Indicator Solution	40	ml
CH8005017.L04	Ferric Ammonium Sulfate Indicator Solution	40	ml
CH8005018.L25	Litmus Indicator Solution	250	ml
CH8005019.L04	Malachite Green Indicator Solution	40	ml
CH8005020.L04	Methyl Orange Indicator Solution	40	ml
CH8005021.L04	Methyl Orange - Methylene Blue Indicator Solution	40	ml
CH8005022.L04	Methyl Red Indicator Solution	40	ml
CH8005023.L04	Methyl Red - Bromocresol Green Indicator Solution	40	ml

Ref. Number	Description	Volume	Msr
CH8005024.L04	Methyl Red - Methylene Blue Indicator Solution	40	ml
CH8005025.L04	Methylene Blue Indicator Solution	40	ml
CH8005026.L04	Naphtholbenzein Indicator Solution	40	ml
CH8005027.L04	Neutral Red Indicator Solution	40	ml
CH8005028.L04	Nile Blue Indicator Solution	40	ml
CH8005029.L04	p-Nitrophenol Indicator Solution	40	ml
CH8005030.L04	Phenol Red Indicator Solution	40	ml
CH8005031.L1	Phenolphthalein Indicator Solution	100	ml
CH8005032.L04	Potassium Chromate Indicator Solution	40	ml
CH8005033.L04	Quinaldine Red Indicator Solution	40	ml
CH8005034.L04	Quinaldine Red - Methylene Blue Indicator Solution	40	ml
CH8005035.L04	Sodium Alizarinsulfonate Indicator Solution	40	ml
CH8005036.L04	Sudan IV Indicator Solution	40	ml
CH8005037.L04	Thymol Blue Indicator Solution	40	ml
CH8005038.L04	Thymolphthalein Indicator Solution	40	ml

Limit test Solutions

Ref. Number	Description	Volume	Msr
CH0801.L1	Sodium chloride standard (stock solution)	100	ml
CH0802.L1	Potassium sulfate standard solution (100 ug/ml SO ₄)	100	ml
CH0804.L1	Selenium standard solution (1 ug/ml Se)	100	ml
CH0805.L1	Fluoride standard solution (20 ug/ml F)	100	ml
CH0807.L1	Iron standard (stock solution)	100	ml
CH0808.L1	Ammonium chloride standard solution (10 ug/ml NH ₄)	100	ml
CH0821.L1	Lead standard (stock solution)	100	ml
CH0822.L1	Arsenic standard (stock solution)	100	ml

Test papers

Ref. Number	Description	Volume	Msr
CH8003001	Ammoniated-Silver Nitrate Test Paper	1	pack of 50
CH8003002	Benzidine - Cupric Acetate Test Paper	1	pack of 50
CH8003003	Blue Litmus Test Paper	1	pack of 50
CH8003004	Cadmium Acetate Test Paper	1	pack of 50
CH8003005	Congo Red Test Paper	1	pack of 50
CH8003006	Lead Acetate Test Paper	1	pack of 50
CH8003007	Mercuric Bromide Test Paper	1	pack of 50
CH8003008	Mercuric Dichloride Test Paper	1	pack of 50
CH8003009	Mercuric Nitrate Test Paper	1	pack of 50
CH8003010	Red Litmus Test Paper	1	pack of 50
CH8003011	Starch-Iodide Test Paper	1	pack of 50

Test Solutions

Ref. Number	Description	Volume	Msr
CH8002047.L1	2,6-Dichloroindenophenol Sodium TS	100	ml
CH8002001.L1	Acetic Acid, Dilute	1000	ml
CH8002003.L1	Acid Ferric Ammonium Sulfate TS	100	ml
CH8002004.L1	Acid Stannous Chloride TS	100	ml
CH8002089.L1	alfa-Naphthol TS	100	ml
CH8002005.L1	Alizarin Fluoro Blue TS	1000	ml
CH8002006.L2	Alkaline Cupric Citrate TS (I+II)	100+100	ml
CH8002007.L2	Alkaline Cupric Tartrate TS (I+II)	100+100	ml
CH8002009.L2	Alkaline Hydroxylamine TS (I+II)	100+100	ml
CH8002008.L5	Alkaline Mercuric-Potassium Iodide TS	500	ml
CH8002010.L1	Alkaline Sodium Nitroprusside TS	100	ml
CH8002011.L1	Alkaline Tetrazolium Blue TS	100	ml
CH8002012.L1	Aluminium trichloride TS	100	ml
CH8002013.L1	Ammonia TS	1000	ml
CH8002014.L1	Ammoniated Ammonium Chloride TS	100	ml
CH8002015.L5	Ammoniated Cupric Chloride TS	500	ml
CH8002016.L1	Ammoniated Nickel Nitrate TS	100	ml
CH8002017.L05	Ammoniated Silver Nitrate TS	30	ml
CH8002018.L1	Ammoniated Sodium Ferricyanide TS	100	ml
CH8002019.L1	Ammonium Acetate TS	100	ml
CH8002020.L1	Ammonium Carbonate TS	100	ml
CH8002021.L1	Ammonium Ceric Nitrate TS	1000	ml
CH8002022.L1	Ammonium Chloride TS	100	ml
CH8002023.L1	Ammonium Magnesium Chloride TS	100	ml
CH8002024.L1	Ammonium Mercuric Thiocyanate TS	100	ml
CH8002026.L1	Ammonium Molybdate in Sulfuric Acid TS	100	ml
CH8002025.L1	Ammonium Molybdate TS	1000	ml
CH8002027.L1	Ammonium Oxalate TS	100	ml
CH8002028.L1	Ammonium Thiocyanate TS	100	ml
CH8002127.L1	Ammonium thiocyanate-cobalt (II) nitrate TS	1000	ml
CH8002127.L1	Ammonium thiocyanate-cobalt (II) nitrate TS	100	ml
CH8002029.L1	Ammonium Vanadate TS	100	ml
CH8002030.L1	Anthrone TS	100	ml
CH8002031.L1	Barium Chloride TS	100	ml
CH8002032.L1	Barium Nitrate TS	100	ml
CH8002033.L1	Brilliant Green TS	100	ml
CH8002034.L1	Bromine TS	100	ml
CH8002035.L1	Bromine-Potassium Bromide TS	100	ml
CH8002036.L05	Bromothymol Blue TS	50	ml
CH8002037.L1	Calcium Chloride TS	100	ml
CH8002038.L1	Chloral Hydrate TS	100	ml
CH8002039.L1	Citric Acetic Anhydride TS	100	ml
CH8002040.L1	Cobaltous Chloride CS	100	ml
CH8002042.L1	Cupric Acetate Concentrated TS	100	ml
CH8002041.L1	Cupric Acetate TS	100	ml

Ref. Number	Description	Volume	Msr
CH8002044.L1	Cupric Iodotartrate TS	1000	ml
CH8002043.L1	Cupric Sulfate TS	100	ml
CH8002045.L1	Diaminonaphthalene TS	100	ml
CH8002046.L01	Diazotized Dinitroaniline TS	10	ml
CH8002048.L1	Dimethylglyoxime TS	100	ml
CH8002049.L1	Dinitrobenzene TS	100	ml
CH8002050.L1	Dinitrobenzoic Acid TS	100	ml
CH8002052.L1	Dinitrophenylhydrazine Dilute TS	100	ml
CH8002051.L1	Dinitrophenylhydrazine TS	100	ml
CH8002053.L1	Diphenylamine TS	100	ml
CH8002054.L1	Disodium Hydrogen Phosphate TS	100	ml
CH8002055.1L	Ethanol, Dilute TS	1000	ml
CH8002057.L1	Ethanolic Dinitrophenylhydrazine TS	100	ml
CH8002058.L1	Ethanolic Hydroxylamine Hydrochloride TS	100	ml
CH8002059.L1	Ethanolic Mercuric Bromide TS	100	ml
CH8002056.L1	Ethanolic p-Dimethylaminobenzaldehyde TS	100	ml
CH8002060.L1	Ethanolic Silver Nitrate TS	100	ml
CH8002061.L1	Ethanolic Sodium Nitrite TS	100	ml
CH8002062.1L	Ethanolic Sulfuric Acid TS	1000	ml
CH8002063.L1	Ferric Chloride TS	100	ml
CH8002064.L1	Ferric Sulfate TS	100	ml
CH8002065.L1	Folin phenol TS	100	ml
CH8002066.L1	Glycerin Dilute TS	100	ml
CH8002067.L1	Glycerin-ethanol TS	100	ml
CH8002069.1L	Hydrochloric Acid Dilute TS	1000	ml
CH8002068.1L	Hydrochloric Acid TS	1000	ml
CH8002071.L1	Hydroxylamine Hydrochloride TS	100	ml
CH8002072.L1	Indigo Carmine TS	100	ml
CH8002073.L1	Indole Medium TS	100	ml
CH8002074.L1	Iodine Potassium Iodide TS	100	ml
CH8002075.L1	Lanthanum TS	100	ml
CH8002076.L1	Lead Acetate TS	100	ml
CH8002077.L1	Lead Subacetate TS	100	ml
CH8002078.L1	Lead Subacetate, Dilute TS	100	ml
CH8002079.L1	Magnesium Sulfate TS	100	ml
CH8002080.L1	Magnesium Sulfate, Dilute TS	100	ml
CH8002081.L1	Mercuric acetate TS	100	ml
CH8002082.L1	Mercuric Dichloride TS	100	ml
CH8002083.L1	Mercuric Nitrate TS	100	ml
CH8002085.L1	Mercuric Sulfate TS	100	ml
CH8002084.L1	Mercuric-Potassium Iodide TS	100	ml
CH8002086.L1	Mercurous Nitrate TS	100	ml
CH8002087.L1	Modified Potassium Iodobismuthate TS	100	ml
CH8002088.L1	Molybdenum Phosphotungstate TS	100	ml
CH8002002.10	N-Acetyl-L-tyrosine ethyl ester TS	10	ml
CH8002090.L1	Ninhydrin TS	100	ml
CH8002091.L1	Nitric Acid Dilute TS	100	ml
CH8002092.L1	Oxalic Acid TS	100	ml

Ref. Number	Description	Volume	Msr
CH8002093.L1	Perchloric Acid TS	100	ml
CH8002094.L1	Phenylhydrazine Sulfate TS	100	ml
CH8002095.L1	Phosphomolybdic Acid TS	100	ml
CH8002096.L1	Phosphomolybdotungstic acid solution	100	ml
CH8002097.L1	Phosphotungstic Acid TS	100	ml
CH8002098.L1	Phthalaldehyde TS	100	ml
CH8002099.L1	Potassium Acetate TS	100	ml
CH8002100.L1	Potassium Carbonate TS	100	ml
CH8002101.L1	Potassium Chromate TS	100	ml
CH8002102.L1	Potassium Cyanide TS	100	ml
CH8002103.L1	Potassium Dichromate TS	100	ml
CH8002104.L1	Potassium Hydroxide TS	100	ml
CH8002105.L1	Potassium Iodobismuthate TS	100	ml
CH8002106.L1	Potassium Pyroantimonate TS	100	ml
CH8002107.L1	Potassium Sulfate TS	100	ml
CH8002108.L1	Resorcinol TS	100	ml
CH8002109.L1	Silver Diethyldithiocarbamate TS	100	ml
CH8002111.1L	Sodium Acetate - Sodium Hydroxide TS	1000	ml
CH8002110.L1	Sodium Acetate TS	100	ml
CH8002112.L1	Sodium Bicarbonate TS	100	ml
CH8002113.L1	Sodium Carbonate TS	100	ml
CH8002114.L1	Sodium Diethyldithiocarbamate TS	100	ml
CH8002115.L1	Sodium Hydroxide TS	100	ml
CH8002116.L1	Sodium Nitrite TS	100	ml
CH8002117.L1	Sodium Periodate TS	100	ml
CH8002118.L1	Sodium Tungstate TS	100	ml
CH8002119.1L	Sulfuric Acid, Dilute	1000	ml
CH8002120.L1	Tetramethylammonium Hydroxide TS	100	ml
CH8002121.L1	Titanium Sulfate TS	100	ml
CH8002122.L1	Trichloroacetic Acid TS	100	ml
CH8002123.L1	Vanillin Sulfuric Acid TS	100	ml
CH8002124.L1	Vanillin TS	100	ml
CH8002125.L1	Zinc Chloride - Iodine TS	100	ml
CH8002126.L1	Zinc Uranyl Acetate TS	100	ml

Volumetric Solutions

Ref. Number	Description	Volume	Msr
CH8006001.1L	Ammonium Thiocyanate (0.1 mol/l) VS	1000	ml
CH8006002.1L	Barium Chloride (0.1 mol/l) VS	1000	ml
CH8006003.1L	Barium Perchlorate (0.05 mol/l) VS	1000	ml
CH8006004.1L	Benzalkonium Chloride (0.01 mol/l) VS	1000	ml
CH8006005.1L	Bismuth Nitrate (0.01 mol/l) VS	1000	ml
CH8006006.1L	Bromine (0.05 mol/l) TS	1000	ml
CH8006007.1L	Ceric Sulfate (0.1 mol/l) VS	1000	ml
CH8006008.1L	Disodium Edetate (0.05 mol/l) VS	1000	ml
CH8006010.1L	Ethanol Potassium Hydroxide (0.1 mol/l) VS	1000	ml

Ref. Number	Description	Volume	Msr
CH8006009.1L	Ethanollic Potassium Hydroxide (0.5 mol/l) VS	1000	ml
CH8006013.1L	Hydrochloric Acid (0.1 mol/l) VS	1000	ml
CH8006012.1L	Hydrochloric Acid (0.5 mol/l) VS	1000	ml
CH8006011.1L	Hydrochloric Acid (1 mol/l) VS	1000	ml
CH8006015.1L	Iodine (0.05 mol/l) VS	1000	ml
CH8006014.1L	Lead Nitrate (0.05 mol/l) VS	1000	ml
CH8006016.1L	Mercuric Nitrate (0.02 mol/l) VS	1000	ml
CH8006017.1L	Mercuric Nitrate (0.05 mol/l) VS	1000	ml
CH8006018.1L	Methanolic Potassium Hydroxide (0.1 mol/l) VS	1000	ml
CH8006019.1L	Oxalic Acid (0.05 mol/l) VS	1000	ml
CH8006020.1L	Perchloric Acid (0.1 mol/l) VS	1000	ml
CH8006021.1L	Potassium Bromate (0.01667 mol/l) VS	1000	ml
CH8006022.1L	Potassium Dichromate (0.01667 mol/l) VS	1000	ml
CH8006023.1L	Potassium Iodate (0.05 mol/l) VS	1000	ml
CH8006024.1L	Silver Nitrate (0.1 mol/l) VS	1000	ml
CH8006025.1L	Sodium Acetate (0.1 mol/l) VS	1000	ml
CH8006027.1L	Sodium Hydroxide (0.1 mol/l) VS	1000	ml
CH8006026.1L	Sodium Hydroxide (1 mol/l) VS	1000	ml
CH8006028.1L	Sodium Nitrite (0.1 mol/l) VS	1000	ml
CH8006030.1L	Sodium Thiosulfate (0.05 mol/l) VS	1000	ml
CH8006029.1L	Sodium Thiosulfate (0.1 mol/l) VS	1000	ml
CH8006031.1L	Sulfuric Acid (0.5 mol/l) VS	1000	ml
CH8006032.1L	Tetrabutylammonium Hydroxide (0.1 mol/l) VS	1000	ml
CH8006033.1L	Zinc (0.05 mol/l) VS	1000	ml

**EUROPEAN
PHARMACOPOEIA
PRODUCTS**

Opalescence and Coloration Solutions

These solutions are specially intended for use in testing Ph Eur and monographs. These solutions are produced according to 2.02.01 - Clarity and degree of opalescence of liquids and 2.02.02 - Degree of coloration of liquids of Ph Eur requirements using Ph Eur reagent quality components and water meeting the Ph Eur monograph requirements for Purified water. Each bottle is accompanied by a Certificate of Analysis.

Clarity and degree of opalescence of liquids

Ref. Number	Description	Volume	Msr
OP001	Primary opalescent suspension	100	ml
OP002	Hydrazine sulfate solution	100	ml
OP003	Hexamethylenetetramine solution	100	ml

Degree of coloration of liquids

Ref. Number	Description	Volume	Msr
B105	Colour Reference Solutions B (brown) B1-B9 acc. to Ph. Eur. (9x2 ml ampoules) + empty tube	9x2 + 1x2	ml
BY106	Colour Reference Solutions BY (brownish yellow): BY1-BY7 acc. to Ph. Eur. (7x2 ml ampoules + empty tube)	7x2 + 1x2	ml
GY108	Colour Reference Solutions GY (greenish yellow): GY1-GY7 acc. to Ph. Eur. (7x2 ml ampoules + empty tube)	7x2 + 1x2	ml
R109	Colour Reference Solutions R (red): R1-R7 acc. to Ph. Eur. (7x2 ml ampoules + empty tube)	7x2 + 1x2	ml
Y107	Colour Reference Solutions Y (yellow) Y1-Y7 acc. to Ph. Eur. (7x2 ml ampoules + empty tube)	7x2 + 1x2	ml
CB004	Primary solution Blue	100	ml
CR003	Primary solution Red	100	ml
CY002	Primary solution Yellow	100	ml
B005	Standard solution B (brown)	125	ml
BY006	Standard solution BY (brownish yellow)	125	ml
GY008	Standard solution GY (greenish yellow)	125	ml
R009	Standard solution R (red)	125	ml
Y007	Standard solution Y (yellow)	125	ml
DM015	Hydrochloric Acid (Dilution Matrix)	1000	ml

Solutions for Absorption Spectrophotometry, Ultraviolet and Visible

Ref. Number	Description	Volume	Msr
UV2225WL.L03	Holmium Oxide Solution for Wavelength Control acc. 2.2.25 of Ph Eur	30	ml
UV2225NA12.L1	Nicotinic acid absorbance / transmission standard 12 mg/l linearity standards @ 213 and 261 nm (conforms to Ph Eur and USP)	100	ml
UV2225NA18.L1	Nicotinic acid absorbance / transmission standard 18 mg/l linearity standards @ 213 and 261 nm (conforms to Ph Eur and USP)	100	ml
UV2225NA24.L1	Nicotinic acid absorbance / transmission standard 24 mg/l linearity standards @ 213 and 261 nm (conforms to Ph Eur and USP)	100	ml
UV2225NA6.L1	Nicotinic acid absorbance / transmission standard 6 mg/l linearity standards @ 213 and 261 nm (conforms to Ph Eur and USP)	100	ml
UV2225NAL.L1	Nicotinic acid linearity standard set - 0 mg/l, 6 mg/l, 12 mg/l, 18 mg/l, 24 mg/l at 213 and 261 nm (conforms to Ph Eur and USP)	100	ml
UV2225KCL.L03	Potassium Chloride Solution for Stray Light Limit acc. 2.2.25 of Ph Eur	30	ml
UV2225PDA.L08	Set of 2x10 ml Potassium Dichromate Solution for Absorbance Control 235 - 350 nm and 6x10 ml blank acc. 2.2.25 of Ph Eur	2x10+6x10	ml
UV2225PDB.L08	Set of 2x10 ml Potassium Dichromate Solution for Absorbance Control at 430 nm and 6x10 ml blank acc. 2.2.25 of Ph Eur	2x10+6x10	ml
UV2225R.L08	Set of 2x10 ml Toluene/ Hexane Solution for Resolution (for qualitative analysis) and 6x10 ml Blank	2x10+6x10	ml
UVPDCR.L25	Set of Potassium dichromate standard solutions at 50 mg/l and 100 mg/l in sulfuric acid (0.005M) and 2 bottles of Sulphuric Acid (0.005M)	250+250+2x250	ml
UV-VISNa.L03	Sodium Iodide Solution for Stray Light Testing 3x10 ml	3x10	ml
UV2225KNaNi.L03	Sodium Nitrite Solution for Stray Light Testing 3 x 10 ml	3x10	ml

Reagents

These solutions are produced according to the specifications given in chapter 4.1 using Ph Eur reagent quality components and water R meeting the Ph Eur monograph requirements for Purified water. Reagent solutions used in the limit tests for barium, calcium and sulfates are prepared using distilled water R. Some of the reagents included in the list are toxic and should be handled in conformity with good quality control laboratory practice. Each bottle is accompanied by a Certificate of Analysis. The identity of CPACem's Products Codes with Ph Eur Codes (seven-figure reference code which will remain unchanged for a given reagent during subsequent revisions) makes the desired product easy to find.

Ref. Number	Description	Volume	Msr
1097501.10	2-Chloroethanol solution	10	ml
1097501.50	2-Chloroethanol solution	50	ml
1001501	30 per cent acrylamide/bisacrylamide (29:1) solution	100	ml
1001502	30 per cent acrylamide/bisacrylamide (36.5:1) solution	100	ml
1003301.L1	4-Aminobenzoic Acid Solution - Solution A	100	ml
1029901	4-Dimethylaminocinnamaldehyde solution (concentrate to be diluted)	100	ml

Ref. Number	Description	Volume	Msr
1000401	Acetic acid 30%	1000	ml
1000401a	Acetic acid 30%	100	ml
1000402	Acetic acid, dilute	1000	ml
1000403	Acetic acid, dilute R1	1000	ml
1000403.a	Acetic acid, dilute R1	100	ml
1000501	Acetic anhydride solution R1	1000	ml
1000501a	Acetic anhydride solution R1	100	ml
1000901	Acetylacetone reagent R1	100	ml
1000902	Acetylacetone reagent R2	100	ml
1001201	Acetyltirosine ethyl ester, 0.2 M	10	ml
1001401	Acid blue 92 solution	100	ml
1134201	Acid blue 93 solution	100	ml
1002501	Alcohol, aldehyde - free	1000	ml
1002601	Alizarin S solution	100	ml
1002702	Aluminium chloride reagent	1000	ml
1002702a	Aluminium chloride reagent	100	ml
1002701	Aluminium chloride solution	100	ml
1003101	Amido black 10B solution	100	ml
1003701	Aminohippuric acid reagent	100	ml
1003901	Aminomethylalizarindiacetic Acid Reagent (Sol A+B+C)	50+50+100	ml
1003902	Aminomethylalizarindiacetic Acid Solution	1000	ml
1004601	Aminopyrazolone solution	100	ml
1004701	Ammonia	1000	ml
1004701.L25	Ammonia	250	ml
1004702	Ammonia, dilute R1	1000	ml
1004703	Ammonia, dilute R2	1000	ml
1004704	Ammonia, dilute R3	1000	ml
1004706	Ammonia, dilute R4	1000	ml
1004705	Ammonia, lead-free	1000	ml
1005201	Ammonium carbonate solution	1000	ml
1005202	Ammonium carbonate solution R1	100	ml
1005301	Ammonium chloride solution	1000	ml
1005702	Ammonium molybdate solution	1000	ml
1005703	Ammonium molybdate solution R2	1000	ml
1005703a	Ammonium molybdate solution R2	500	ml
1005704	Ammonium molybdate solution R3 (I+II)	200+800	ml
1005705	Ammonium molybdate solution R4	500	ml
1005709	Ammonium Molybdate Solution R6	100	ml
1005801.100G	Ammonium nitrate R1	100	g
1005901	Ammonium oxalate solution	1000	ml
1006701	Ammonium thiocyanate solution	1000	ml
1006801	Ammonium vanadate solution	1000	ml
1007301	Anisaldehyde solution	100	ml
1007302	Anisaldehyde solution R1	100	ml
1007303	Anisaldehyde solution R2	100	ml
1007701	Antimony trichloride solution	100	ml
1007702	Antimony trichloride solution R1 - (acc. to old Ph Eur)	100	ml
1008301	Arsenite solution - (acc. to old Ph Eur)	100	ml

Ref. Number	Description	Volume	Msr
1008401	Ascorbic acid solution	100	ml
1008701	Azomethine H solution	100	ml
1009301	Barium chloride solution R1	1000	ml
1009301.L1	Barium chloride solution R1	100	ml
1009301.L25	Barium chloride solution R1	250	ml
1009302	Barium chloride solution R2	1000	ml
1009401	Barium hydroxide solution	1000	ml
1009401.L25	Barium hydroxide solution	250	ml
1103801	Bisbenzimidazole stock solution	100	ml
1011502	Bismuth subnitrate solution	500	ml
1011601	Biuret reagent	1000	ml
1122400	Blocking Solution	1000	ml
1033601	Borate solution	1000	ml
1011801	Boric acid solution, saturated, cold	100	ml
1012401	Bromine solution	100	ml
1012402	Bromine water	100	ml
1012402.L05	Bromine water	50	ml
1012602	Bromocresol green- methyl red solution	100	ml
1012601	Bromocresol green solution	100	ml
1012701	Bromocresol purple solution	100	ml
1012801	Bromophenol blue solution	100	ml
1012802	Bromophenol blue solution R1	100	ml
1012803	Bromophenol blue solution R2	100	ml
1012901	Bromothymol blue solution R1	100	ml
1012902	Bromothymol blue solution R2	100	ml
1012903	Bromothymol blue solution R3	100	ml
1012904	Bromothymol blue solution R4	100	ml
1013000	BRP indicator solution	100	ml
1014601	Calcium chloride solution	1000	ml
1014602	Calcium chloride solution 0.01M	1000	ml
1014602a	Calcium chloride solution 0.01M	100	ml
1014603	Calcium chloride solution 0.02 M	1000	ml
1014604	Calcium chloride solution 0.025 M	1000	ml
1015201	Calcium Sulfate solution	100	ml
1015201.1L	Calcium Sulfate solution	1000	ml
1015301.50G	Calconecarboxylic acid triturate	50	g
1017901	Chloral hydrate solution	100	ml
1018601	Chloroform, acidified	100	ml
1020201	Chromotrope IIB Solution	100	ml
1020302	Chromotropic Acid-Sulphuric Acid Solution	100	ml
1022002	Congo red paper	1	pack of 50
1022001	Congo red solution	100	ml
1012201.L1	Coomassie Staining Solution	100	ml
1173000	Coomassie Staining Solution R1	100	ml
1022300	Copper edetate solution	1000	ml
1022300a	Copper edetate solution	100	ml
1022501	Copper sulfate solution	1000	ml
1022501.L1	Copper sulfate solution	100	ml

Ref. Number	Description	Volume	Msr
1022600	Copper tetrammine, ammoniacal solution of	100	ml
1022801	Cresol red solution	100	ml
1022901	Crystal violet solution	100	ml
1023100	Cupri-citric solution	1000	ml
1023200	Cupri-citric solution R1	1000	ml
1023300	Cupri-tartaric solution (I+II)	1000	ml
1023304	Cupri-tartaric solution R4 (I+II)	500+500	ml
1062201	Decolorised pararosaniline solution	100	ml
1012202	Destaining solution	1000	ml
1122500	Developer solution	500	ml
1027001	Dichloroacetic acid solution	500	ml
1029803	Dimethylaminobenzaldehyde solution R6	100	ml
1031101	Dimidium bromide-sulphan blue mixed solution	500	ml
1031201	Dinitrobenzene solution	1000	ml
1031301	Dinitrobenzoic acid solution	1000	ml
1032002	Dioxan solution	100	ml
1032003	Dioxan solution R1	50	ml
1032004	Dioxan solution R2	50	ml
1032001	Dioxan stock solution (acc. to old Ph Eur)	100	ml
1032101	Diphenylamine solution	1000	ml
1032101.L1	Diphenylamine solution	100	ml
1032102	Diphenylamine solution R1	1000	ml
1032601	Diphenylcarbazone mercuric reagent (I+II)	100+100	ml
1033301	Disodium hydrogen phosphate solution	1000	ml
1033903	Dithizone solution R2	100	ml
1034001	Divanadium pentoxide solution in sulphuric acid	100	ml
1035201	Ethoxychrysoidine solution	100	ml
1035301	Ethyl acetate, treated	1000	ml
1036407	Ethylene oxide solution R4	50	ml
1036401	Ethylene oxide stock solution	10	ml
1036406	Ethylene oxide stock solution R1	10	ml
1036406.L5	Ethylene oxide stock solution R1	500	ml
1036408	Ethylene oxide stock solution R2	10	ml
1036408.L001	Ethylene oxide stock solution R2	1	ml
1037702	Ferric ammonium sulphate R2	1000	ml
1037702.L1	Ferric ammonium sulphate R2	100	ml
1037704	Ferric ammonium sulphate R5	100	ml
1037705	Ferric ammonium sulphate R6	100	ml
1037801	Ferric chloride solution R1	1000	ml
1037802	Ferric chloride solution R2	1000	ml
1037803	Ferric chloride solution R3	100	ml
1037804	Ferric chloride-sulphamic acid reagent	1000	ml
1037901	Ferric sulfate solution	1000	ml
1038100	Ferrouin	100	ml
1122600	Fixing solution	500	ml
1138700	Fixing solution for isoelectric focusing in polyacrylamide gel	500	ml
1039101	Formaldehyde solution	100	ml
1039201	Formamide, treated	100	ml

Ref. Number	Description	Volume	Msr
1039401	Fuchsin solution, decolorised	100	ml
1039402	Fuchsin solution, decolorised R1	100	ml
1039900	Gastric juice, artificial	1000	ml
1098400	Glyoxal solution	100	ml
1043101	Holmium perchlorate solution	1000	ml
1043101.03	Holmium perchlorate solution	30	ml
1043101.L1	Holmium perchlorate solution	100	ml
1118901	Hydrobromic acid, dilute R1	1000	ml
1043500	Hydrochloric acid R	1000	ml
1043507	Hydrochloric acid, brominated	1000	ml
1043507.L1	Hydrochloric acid, brominated	100	ml
1043503	Hydrochloric acid, dilute	1000	ml
1043504	Hydrochloric acid, dilute R1	1000	ml
1043505	Hydrochloric acid, dilute R2	1000	ml
1203800	Hydrochloric acid, dilute R3	1000	ml
1043509	Hydrochloric acid, dilute, heavy metal-free	1000	ml
1043506	Hydrochloric acid, ethanolic	1000	ml
1043508	Hydrochloric acid, lead-free	100	ml
1043511	Hydrochloric acid, methanolic	1000	ml
1043501	Hydrochloric acid, R1	1000	ml
1044101	Hydroquinone solution	100	ml
1044304	Hydroxylamine hydrochloride solution R2	100	ml
1044301	Hydroxylamine solution, alcoholic	100	ml
1044302	Hydroxylamine solution, alkaline (I+II)	500+500	ml
1044303	Hydroxylamine solution, alkaline R1 (I+II)	200	ml
1045200	Hypophosphorous reagent	100	ml
1045601	Indigo carmine solution	100	ml
1045601.1L	Indigo carmine solution	1000	ml
1045901	Iodine Bromide solution	1000	ml
1143001	Iodine Chloride Solution	100	ml
1045806	Iodine solution R4	1000	ml
1045807	Iodine solution R5	1000	ml
1045804	Iodine solution, alcoholic	1000	ml
1045805	Iodine solution, chloroformic	1000	ml
1046300	Iodoplatinate reagent	200	ml
1046300.1L	Iodoplatinate reagent	1000	ml
1046700	Iron salicylate solution	500	ml
1046801	Isatin Reagent	100	ml
1047801	Lactic reagent	100	ml
1114001	Lanthanum chloride solution	1000	ml
1048001	Lanthanum nitrate solution	1000	ml
1048101.10G	Lead acetate cotton	10	g
1048102	Lead acetate paper	1	pack of 50
1048103	Lead acetate solution	1000	ml
1048301	Lead nitrate solution	1000	ml
1048400	Lead subacetate solution	100	ml
1049301	Litmus paper, blue	1	pack of 50
1049302.L05	Litmus paper, red	1	pack of 50

Ref. Number	Description	Volume	Msr
1049801	Magnesium nitrate solution	100	ml
1049801.1L	Magnesium nitrate solution	1000	ml
1049901.100G	Magnesium oxide R1	100	g
1050501	Malachite green solution	100	ml
1050501.1L	Malachite green solution	1000	ml
1121701	m-Cresol purple solution	100	ml
1052001	Mercuric acetate solution	100	ml
1052101	Mercuric bromide paper (acc. to old Ph Eur)	1	pack of 50
1052201	Mercuric chloride solution	100	ml
1052600	Mercuric sulphate solution	100	ml
1052801	Mercury, nitric acid solution of (acc. to old Ph Eur)	100	ml
1052901	Metanil Yellow Solution	100	ml
1053300	Methanol, Aldehyde-free	1000	ml
1053400	Methanol, Anhydrous	1000	ml
1053203	Methanol, hydrochloric	100	ml
1053601	Methoxyphenylacetic Acid Reagent	30	ml
1154101.L1	Methyl 4-acetylbenzoate reagent	100	ml
1054801	Methyl orange mixed solution	100	ml
1054802	Methyl orange solution	100	ml
1055101	Methyl red mixed solution	100	ml
1055102	Methyl red solution	100	ml
1055801	Methylene blue solution	100	ml
1055901	Methylene chloride, acidified	100	ml
1158501.50G	Methylthymol blue mixture	50	g
1056700	Molybdovanadic reagent	100	ml
1056801.100G	Mordant black 11 triturate	100	g
1056802.100G	Mordant black 11 triturate R1	100	g
1057601	Naphtolbenzein solution	100	ml
1058201	Nile blue A solution	100	ml
1058301	Ninhydrin and stannous chloride reagent (A+B)	100	ml
1058302	Ninhydrin and stannous chloride reagent R1 (A+B), (acc. to old Ph Eur)	200	ml
1058303	Ninhydrin solution	100	ml
1058304	Ninhydrin solution R1	100	ml
1058305	Ninhydrin solution R2	100	ml
1058306	Ninhydrin solution R3	100	ml
1058307	Ninhydrin solution R4	100	ml
1058402	Nitric acid, dilute	100	ml
1058402.L25	Nitric acid, dilute	250	ml
1058407	Nitric acid, dilute R1	100	ml
1058409	Nitric acid, dilute R2	100	ml
1058410	Nitric acid, dilute, heavy metal-free	100	ml
1058406	Nitric acid, lead-free, dilute	100	ml
1059100	Nitrochromic reagent (acc. to old Ph Eur)	100	ml
1060100	Nitro-molybdovanadic reagent	200	ml
1123001	o-Tolidine solution	500	ml
1061401	Oxalic acid and sulphuric acid solution	1000	ml
1061501	Palladium chloride solution	100	ml
1062901	Perchloric acid solution	100	ml

Ref. Number	Description	Volume	Msr
1063000	Periodic acetic acid solution	100	ml
1063601	Phenol red solution	100	ml
1063603	Phenol red solution R2	500	ml
1063603a	Phenol red solution R2	100	ml
1063604	Phenol red solution R3	500	ml
1063604a	Phenol red solution R3	100	ml
1063704	Phenolphthalein paper (Pack of 50)	1	pack of 50
1063702	Phenolphthalein solution	100	ml
1063702.1L	Phenolphthalein solution	1000	ml
1063703	Phenolphthalein solution R1	100	ml
1064501	Phenylhydrazine hydrochloride solution	100	ml
1064601	Phloroglucinol solution	20	ml
1065000	Phosphomolybdotungstic reagent	100	ml
1065001	Phosphomolybdotungstic reagent, dilute	100	ml
1065101	Phosphoric acid, dilute	1000	ml
1065102	Phosphoric acid, dilute R1	1000	ml
1065200	Phosphotungstic acid solution	100	ml
1065801	Picric acid solution	100	ml
1065802	Picric acid solution R1	100	ml
1069101	Potassium chloride 0.1M	1000	ml
1069201	Potassium chromate solution	1000	ml
1069401	Potassium cyanide solution	100	ml
1069402	Potassium cyanide solution, lead-free	100	ml
1069501	Potassium dichromate solution	1000	ml
1069501.L1	Potassium dichromate solution	100	ml
1069502	Potassium dichromate solution R1	1000	ml
1069601	Potassium dihydrogen phosphate, 0.2 M	1000	ml
1070801	Potassium ferriperiodate solution	100	ml
1069801	Potassium ferrocyanide solution	100	ml
1070001	Potassium hydrogen phtalate, 0.2M	1000	ml
1070302	Potassium hydroxide in alcohol (10% V/V), 0.5M	1000	ml
1070303	Potassium hydroxide solution, alcoholic	100	ml
1070304	Potassium hydroxide solution, alcoholic R1	1000	ml
1070301	Potassium hydroxide, alcoholic 2M	100	ml
1070501	Potassium iodide and starch solution	100	ml
1070502	Potassium iodide solution	1000	ml
1070503	Potassium iodide solution, iodinated	100	ml
1070505	Potassium iodide solution, iodinated R1	100	ml
1070504	Potassium iodide solution, saturated	100	ml
1070600	Potassium iodobismuthate solution	100	ml
1070601	Potassium iodobismuthate solution R1	500	ml
1070602	Potassium iodobismuthate solution R2	100	ml
1070604	Potassium iodobismuthate solution R3	100	ml
1070605	Potassium iodobismuthate solution R4	100	ml
1070606	Potassium iodobismuthate solution R5	100	ml
1070603	Potassium iodobismuthate solution, dilute	500	ml
1070901	Potassium permanganate and phosphoric acid solution	100	ml
1070902	Potassium permanganate solution	1000	ml

Ref. Number	Description	Volume	Msr
1071200	Potassium plumbite solution	100	ml
1071301	Potassium pyroantimonate solution	100	ml
1071301.1L	Potassium pyroantimonate solution	1000	ml
1071301.L25	Potassium pyroantimonate solution	250	ml
1071302	Potassium pyroantimonate solution R1	100	ml
1071500	Potassium tetraiodomercurate solution	100	ml
1071600	Potassium tetraiodomercurate solution, alkaline (I+II) - two solutions - 100 ml each	200	ml
1071801	Potassium thiocyanate solution	1000	ml
1073501	Pyridylazonaphthol Solution	100	ml
1073801	Quinaldine red solution	100	ml
1075201	Ruthenium red solution	100	ml
1075500.100G	Salicylaldehyde azine. C14H12N2O2. (Mr 240.3)	100	g
1114900	SDS-PAGE Running Buffer (10 times concentrated)	1000	ml
1115000	SDS-PAGE Sample Buffer (Concentrated)	125	ml
1122100	SDS-PAGE Sample Buffer Solution for Reducing Conditions (Concentrated)	500	ml
1110400.1G	Silver diethyldithiocarbamate C5H10AgNS2	1	g
1078200	Silver manganese paper	1	pack of 50
1078305	Silver nitrate reagent	100	ml
1078304	Silver nitrate solution in pyridine	100	ml
1078301	Silver nitrate solution R1	1000	ml
1078301.L1	Silver nitrate solution R1	100	ml
1078302	Silver nitrate solution R2	1000	ml
1078302.L1	Silver nitrate solution R2	100	ml
1165901	Sodium arsenite solution	100	ml
1079301	Sodium carbonate solution	1000	ml
1079302	Sodium carbonate solution R1	1000	ml
1079303	Sodium carbonate solution R2	1000	ml
1079502	Sodium chloride solution	1000	ml
1079503	Sodium chloride solution, saturated	1000	ml
1081301	Sodium hydrogen carbonate solution	1000	ml
1081407	Sodium hydroxide 4M	1000	ml
1081401	Sodium hydroxide solution	1000	ml
1081406	Sodium hydroxide solution, carbonate - free	1000	ml
1081402	Sodium hydroxide solution, dilute	1000	ml
1081403	Sodium hydroxide solution, methanolic	100	ml
1081405	Sodium hydroxide solution, methanolic R1	100	ml
1081405.5L	Sodium hydroxide solution, methanolic R1	5000	ml
1081404	Sodium hydroxide solution, strong	1000	ml
1081600	Sodium hypochlorite solution, strong	1000	ml
1081600.L25	Sodium hypochlorite solution, strong	250	ml
1083801.100G	Sodium sulfate, anhydrous R1	100	g
1083901	Sodium sulphide solution	100	ml
1083902	Sodium sulphide solution R1	100	ml
1085001	Stannous chloride solution	100	ml
1085101	Starch iodate paper	1	pack of 50
1085106	Starch iodide paper	1	pack of 50
1085103	Starch solution	100	ml

Ref. Number	Description	Volume	Msr
1085103.1L	Starch solution	1000	ml
1086810	Sulfuric acid, dilute R1	1000	ml
1086806	Sulfuric acid, nitrogen-free	1000	ml
1086203	Sulphanilic acid solution	100	ml
1086201	Sulphanilic acid solution R1	100	ml
1086400	Sulphomolybdic reagent R2	100	ml
1086500	Sulphomolybdic reagent R3	100	ml
1086809	Sulphuric acid 5M	100	ml
1086804	Sulphuric acid, dilute	1000	ml
1086805	Sulphuric acid-formaldehyde reagent	100	ml
1088701	Tetramethyldiaminodiphenylmethane reagent	100	ml
1089601	Thioacetamide reagent (I + II)	1000	ml
1089602	Thioacetamide solution	1000	ml
1089602a	Thioacetamide solution	100	ml
1090601	Thymol blue solution	100	ml
1090701	Thymolphthalein solution	100	ml
1090901	Titan yellow paper	1	pack of 50
1090902	Titan yellow solution	100	ml
1091202	Titanium trichloride - sulphuric acid reagent	100	ml
1091201	Titanium trichloride solution	100	ml
1091201.L5	Titanium trichloride solution	500	ml
1092001	Tosylarginine methyl ester hydrochloride solution	100	ml
1092501	Trichloroacetic acid solution	1000	ml
1094201	Tris (hydroxymethyl) aminomethane solution	100	ml
1095302	Vanillin solution, phosphoric	100	ml
1095503	Water for chromatography	1000	ml
1095500	Water R	5000	ml
1095501	Water, ammonium-free	1000	ml
1095502	Water, carbon dioxide - free	1000	ml
1095506	Water, nitrate-free	1000	ml
1095507	Water, particle-free	1000	ml
1096102	Xanthidrol solution	100	ml
1096302	Xylenol orange solution	100	ml
1096301.50G	Xylenol orange triturate	50	g
1102301	Zinc acetate solution	1000	ml
1096602	Zinc chloride solution, iodinated	1000	ml
1096602.L5	Zinc chloride solution, iodinated	500	ml
1096601	Zinc chloride-formic acid solution	1000	ml
1096502	Zinc iodide and starch solution	100	ml
1096501.10G	Zinc, activated	10	g
1097201	Zirconyl nitrate solution	100	ml

Standard Solutions

Ref. Number	Description	Volume	Msr
5000100	Acetaldehyde standard solution (100 ppm C ₂ H ₄ O) 100 times concentrated	100	ml
5000101	Acetaldehyde standard solution (100 ppm C ₂ H ₄ O) R1 100 times concentrated	100	ml
5000201	Aluminium standard solution (10 ppm Al) 100 times concentrated	100	ml
5000203C	Aluminium standard solution (100 ppm Al) 10 times concentrated	100	ml
5000202	Aluminium standard solution (2 ppm Al) 100 times concentrated	100	ml
5000200	Aluminium standard solution (200 ppm Al)	100	ml
5000302C	Ammonium standard solution (1 ppm NH ₄) 250 times concentrated	100	ml
5000300C	Ammonium standard solution (100 ppm NH ₄) 2.5 times concentrated	100	ml
5000301C	Ammonium standard solution (2.5 ppm NH ₄) 100 times concentrated	100	ml
5006100C	Ammonium standard solution (3 ppm NH ₄) 100 times concentrated	100	ml
5000400C	Antimony standard solution (1 ppm Sb) 1000 times concentrated	100	ml
5000401	Antimony standard solution (100 ppm Sb)	100	ml
5000501	Arsenic standard solution (1 ppm As) 1000 times concentrated	100	ml
5000500C	Arsenic standard solution (10 ppm As) 100 times concentrated	100	ml
5000502	Arsenic standard solution 10 000 times concentrated	100	ml
5000601	Barium standard solution (0.1 per cent Ba)	100	ml
5000600	Barium standard solution (50 ppm Ba) 20 times concentrated	100	ml
5005300C	Bismuth standard solution (100 ppm Bi) 10 times concentrated	100	ml
5000700	Cadmium standard solution (0.1 per cent Cd)	100	ml
5000803C	Calcium standard solution (10 ppm Ca) 100 times concentrated	100	ml
5000801C	Calcium standard solution (100 ppm Ca) 10 times concentrated	100	ml
5000804C	Calcium standard solution (100 ppm Ca) R1 10 times concentrated	100	ml
5000802C	Calcium standard solution (100 ppm Ca), alcoholic 10 times concentrated	100	ml
5000800C	Calcium standard solution (400 ppm Ca) 10 times concentrated	100	ml
5000901C	Chloride standard solution (5 ppm Cl) 100 times concentrated	100	ml
5004100C	Chloride standard solution (50 ppm Cl) 10 times concentrated	100	ml
5000900C	Chloride standard solution (8 ppm Cl) 100 times concentrated	100	ml
5000901	Chloride standard solution 100 times concentrated (500 ppm)	100	ml
5001002	Chromium standard solution (0.1 per cent Cr)	100	ml
5001000	Chromium standard solution (100 ppm Cr)	100	ml
5004300	Cobalt standard solution (100 ppm Co)	100	ml
5001100	Copper standard solution (0.1 per cent Cu)	100	ml
5001101C	Copper standard solution (10 ppm Cu) 100 times concentrated	100	ml
5001300C	Ferricyanide standard solution (50 ppm Fe(CN) ₆) 100 times concentrated	100	ml
5001200C	Ferrocyanide standard solution (100 ppm Fe(CN) ₆) 10 times concentrated	100	ml
5001400C	Fluoride standard solution (10 ppm F) 20 times concentrated	100	ml
5001500C	Formaldehyde standard solution (5 ppm CH ₂ O) 200 times concentrated	100	ml
5004400	Germanium standard solution (100 ppm Ge)	100	ml
5003700C	Glyoxal standard solution (20 ppm C ₂ H ₂ O ₂) 100 times concentrated	100	ml
5003800C	Iodide standard solution (10 ppm I) 100 times concentrated	100	ml
5001605	Iron standard solution (0.1 per cent Fe)	100	ml
5001601C	Iron standard solution (10 ppm Fe) 100 times concentrated	100	ml
5001600C	Iron standard solution (20 ppm Fe) 10 times concentrated	100	ml
5001606C	Iron standard solution (250 ppm Fe) 40 times concentrated	100	ml
5001602C	Iron standard solution (8 ppm Fe) 10 times concentrated	100	ml

Ref. Number	Description	Volume	Msr
5001603C	Iron standard solution 100 times concentrated (200 ppm Fe)	100	ml
5001606	Iron standard solution 40 times concentrated (10 000 ppm)	100	ml
5001700	Lead standard solution (0.1% Pb)	100	ml
5001700.L5	Lead standard solution (0.1% Pb)	500	ml
5001704C	Lead standard solution (1 ppm Pb) 1000 times concentrated	100	ml
5001706C	Lead standard solution (10 ppm Pb) R1 10 times concentrated	100	ml
5001701C.L1	Lead standard solution (100 ppm Pb) 10 times concentrated	100	ml
5001703C	Lead standard solution (2 ppm Pb) 500 times concentrated	100	ml
5001702C	Lead standard solution 100 times concentrated (0.1 per cent Pb)	100	ml
5001803	Magnesium standard solution (0.1 per cent Mg)	100	ml
5001802C	Magnesium standard solution (10 ppm Mg) R1 100 times concentrated	100	ml
5001800C	Magnesium standard solution (100 ppm Mg) 10 times concentrated	100	ml
5006200	Magnesium standard solution (1000 ppm Mg)	100	ml
5004500	Manganese standard solution (100 ppm Mn)	100	ml
5005800	Manganese standard solution (1000 ppm Mn)	100	ml
5001901C	Mercury standard solution (10 ppm Hg) 100 times concentrated	100	ml
5001900	Mercury standard solution (1000 ppm Hg)	100	ml
5002000C	Nickel standard solution (10 ppm Ni) 100 times concentrated	100	ml
5002101	Nitrate standard solution (10 ppm NO ₃) 100 times concentrated	100	ml
5002100C	Nitrate standard solution (100 ppm NO ₃) 10 times concentrated	100	ml
5002102C	Nitrate standard solution 5 times concentrated (10 ppm NO ₃)	100	ml
5003602C	Palladium standard solution (20 ppm Pd) 10 times concentrated	100	ml
5003600	Palladium standard solution (500 ppm Pd)	100	ml
5004200	Phosphate standard solution (200 ppm PO ₄)	100	ml
5002200C	Phosphate standard solution (5 ppm PO ₄) 100 times concentrated	100	ml
5002300C	Platinum standard solution (30 ppm Pt) 10 times concentrated	100	ml
5002402	Potassium standard solution (0.2 per cent K)	100	ml
5002400C	Potassium standard solution (100 ppm K) 20 times concentrated	100	ml
5005100C	Potassium standard solution (600 ppm K) 20 times concentrated	100	ml
5002501C	Selenium standard solution (1 ppm Se) 40 times concentrated	100	ml
5002500	Selenium standard solution (100 ppm Se)	100	ml
5005700	Sodium standard solution (1000 ppm Na)	100	ml
5002700C	Sodium standard solution (200 ppm Na) 10 times concentrated	100	ml
5003900	Strontium standard solution (1.0 per cent Sr)	100	ml
5002800C	Sulfate standard solution (10 ppm SO ₄) 100 times concentrated	100	ml
5002801C	Sulfate standard solution (10 ppm SO ₄) R1 100 times concentrated	100	ml
5002802C	Sulfate standard solution (100 ppm SO ₄) 10 times concentrated	100	ml
5005500C	Sulfite standard solution (80 ppm SO ₂) 200 times concentrated	100	ml
5002900	Sulphite standard solution (1.5 ppm SO ₂)	100	ml
5003000C	Thallium standard solution (10 ppm Tl) 10 times concentrated	100	ml
5003100C	Tin standard solution (5 ppm Sn) 100 times concentrated	100	ml
5003200	Titanium standard solution (100 ppm Ti)	100	ml
5003300	Vanadium standard solution (1 g/l V)	100	ml
5003401C	Zinc standard solution (100 ppm Zn) 10 times concentrated	100	ml
5003400	Zinc standard solution (5 mg/mL Zn)	100	ml
5003500	Zirconium standard solution (1 g/l Zr)	100	ml

Buffer Solutions

Ref. Number	Description	Volume	Msr
4001100	Acetate buffer solution pH 4.4	1000	ml
4012500	Acetate buffer solution pH 4.5	1000	ml
4001400	Acetate buffer solution pH 4.6	1000	ml
4001600	Acetate buffer solution pH 4.7	1000	ml
4009100	Acetate buffer solution pH 5.0	1000	ml
4002200	Acetate buffer solution pH 6.0	1000	ml
4013600	Acetate buffer solution R1 pH 4.7	1000	ml
4001900	Acetate-edetate buffer solution pH 5.5	1000	ml
4014200	Ammonium acetate buffer solution 0.5M pH 4.5	1000	ml
4011900.1L	Ammonium carbonate buffer solution 0.1M pH 10.3	1000	ml
4007300	Ammonium chloride buffer solution pH 10.0	1000	ml
4011000.1L	Ammonium chloride buffer solution pH 10.4	1000	ml
4013400	Ammonium chloride buffer solution pH 10.7	1000	ml
4007200	Ammonium chloride buffer solution pH 9.5	1000	ml
4006000	Borate buffer solution 0.0015M pH 8.0	1000	ml
4016000	Borate buffer solution pH 10.0 - (acc. to old Ph Eur)	1000	ml
4011100.1L	Borate buffer solution pH 10.4	1000	ml
4005200	Borate buffer solution pH 7.5	1000	ml
4008300	Buffer (phosphate) solution pH 9.0	1000	ml
4007600	Buffer solution pH 10.9	1000	ml
4014000	Buffer solution pH 11	1000	ml
4000200	Buffer solution pH 2.0	1000	ml
4010500	Buffer solution pH 2.2	1000	ml
4000300	Buffer solution pH 2.5	1000	ml
4000400	Buffer solution pH 2.5 R1	1000	ml
4008000	Buffer solution pH 3.0	1000	ml
4000600	Buffer solution pH 3.5	1000	ml
4000600.L25	Buffer solution pH 3.5	250	ml
4000800	Buffer solution pH 3.6	1000	ml
4000900	Buffer solution pH 3.7	1000	ml
4001700	Buffer solution pH 5.2	1000	ml
4001800	Buffer solution pH 5.5	1000	ml
4002900	Buffer solution pH 6.5	1000	ml
4003100	Buffer solution pH 6.6	1000	ml
4003500	Buffer solution pH 7.0	1000	ml
4004100	Buffer solution pH 7.2	1000	ml
4004600	Buffer solution pH 7.4	1000	ml
4005900	Buffer solution pH 8.0	1000	ml
4010400	Buffer solution pH 8.0 R1	1000	ml
4007000	Buffer solution pH 9.0	1000	ml
4007100	Buffer solution R1 pH 9.0	1000	ml
4000100	Buffered acetone solution	1000	ml
4001000	Buffered copper sulfate solution pH 4.0	1000	ml
4004300	Buffered salt solution pH 7.2	1000	ml
4012600	Citrate buffer solution 0.25M pH 3.0	1000	ml

Ref. Number	Description	Volume	Msr
4010700	Citrate buffer solution pH 5.0	1000	ml
4007500	Diethanolamine buffer solution pH 10.0	1000	ml
4002300	Diethylammonium phosphate buffer solution pH 6.0	1000	ml
4003000	Imidazole buffer solution pH 6.5	1000	ml
4004500	Imidazole buffer solution pH 7.3	1000	ml
4009400	Phosphate buffer solution 0.025M pH 7.0	1000	ml
4006100	Phosphate buffer solution 0.02M pH 8.0	1000	ml
4010300	Phosphate buffer solution 0.03M pH 7.0	1000	ml
4003900	Phosphate buffer solution 0.03M R1 pH 7.0	1000	ml
4009000	Phosphate buffer solution 0.05M pH 4.5	1000	ml
4012400	Phosphate buffer solution 0.05M pH 7.0	1000	ml
4014400	Phosphate buffer solution 0.05M pH 7.5	1000	ml
4009500	Phosphate buffer solution 0.063M pH 7.0	1000	ml
4012000	Phosphate buffer solution 0.067M pH 5.4	1000	ml
4003800	Phosphate buffer solution 0.067M pH 7.0	1000	ml
4008200	Phosphate buffer solution 0.1 M pH 7.0	1000	ml
4015600	Phosphate buffer solution 0.125M pH 2.0	1000	ml
4015400	Phosphate buffer solution 0.1M pH 11.3	1000	ml
4011500	Phosphate buffer solution 0.1M pH 3.0	1000	ml
4010800	Phosphate buffer solution 0.1M pH 6.5	1000	ml
4014300	Phosphate buffer solution 0.1M pH 6.7	1000	ml
4008400	Phosphate buffer solution 0.1M pH 8.0	1000	ml
4014100	Phosphate buffer solution 0.2M pH 2.5	1000	ml
4005400	Phosphate buffer solution 0.2M pH 7.5	1000	ml
4005300	Phosphate buffer solution 0.33M pH 7.5	1000	ml
4007800	Phosphate buffer solution 1M pH 8.0	1000	ml
4007900	Phosphate buffer solution pH 2.0	1000	ml
4010600	Phosphate buffer solution pH 2.8	1000	ml
4000500	Phosphate buffer solution pH 3.0	1000	ml
4008100	Phosphate buffer solution pH 3.2	1000	ml
4014900	Phosphate buffer solution pH 3.25	1000	ml
4015800	Phosphate buffer solution pH 3.4	1000	ml
4000700	Phosphate buffer solution pH 3.5	1000	ml
4011300	Phosphate buffer solution pH 5.0	1000	ml
4002000	Phosphate buffer solution pH 5.5	1000	ml
4011200	Phosphate buffer solution pH 5.6	1000	ml
4002100	Phosphate buffer solution pH 5.8	1000	ml
4002400	Phosphate buffer solution pH 6.0	1000	ml
4002800	Phosphate buffer solution pH 6.4	1000	ml
4012800	Phosphate buffer solution pH 6.5	1000	ml
4003300	Phosphate buffer solution pH 6.8	1000	ml
4003700	Phosphate buffer solution pH 7.0	1000	ml
4015300	Phosphate buffer solution pH 7.0 R6	1000	ml
4004200	Phosphate buffer solution pH 7.2	1000	ml
4004800	Phosphate buffer solution pH 7.4	1000	ml
4013300.1L	Phosphate buffer solution pH 8.5	1000	ml
4010000	Phosphate buffer solution R1 pH 3.0	1000	ml
4008500	Phosphate buffer solution R1 pH 3.2	1000	ml

Ref. Number	Description	Volume	Msr
4002500	Phosphate buffer solution R1 pH 6.0	1000	ml
4003400	Phosphate buffer solution R1 pH 6.8	1000	ml
4002600	Phosphate buffer solution R2 pH 6.0	1000	ml
4004000	Phosphate buffer solution R2 pH 7.0	1000	ml
4008600	Phosphate buffer solution R3 pH 7.0	1000	ml
4010200	Phosphate buffer solution R4 pH 7.0	1000	ml
4011400	Phosphate buffer solution R5 pH 7.0	1000	ml
4015700	Phosphate buffer solution R7 pH 7.0	1000	ml
4003200	Phosphate buffered saline pH 6.8	1000	ml
4005000	Phosphate buffered saline pH 7.4	1000	ml
4008700	Phosphate-citrate buffer solution pH 5.5	1000	ml
4001200	Phthalate buffer solution pH 4.4	1000	ml
4009200	Phthalate buffer solution 0.5M pH 6.4	1000	ml
4013800	Sodium acetate buffer solution 0.1M pH 4.0	1000	ml
4010100	Sodium acetate buffer solution pH 4.5	1000	ml
4015500	Sodium acetate buffer solution pH 5.0	1000	ml
4009800	Sodium citrate buffer solution (0.034M sodium citrate, 0.101M sodium chloride) pH 7.8	1000	ml
4013700.1L	Sodium phosphate buffer solution 0.02M pH 8.0	1000	ml
4016100	Sodium phosphate buffer solution 0.25M pH 7.5	1000	ml
4014800	Sodium/calcium acetate buffer solution pH 7.0	1000	ml
4001500	Succinate buffer solution pH 4.6	1000	ml
4008900	Sulphate buffer solution pH 2.0	1000	ml
4007700	Total-ionic-strength-adjustment buffer	1000	ml
4008800	Total-ionic-strength-adjustment buffer R1	1000	ml
4006700	Tris acetate buffer solution pH 8.5	1000	ml
4005500.1L	Tris(hydroxymethyl)aminomethane buffer solution pH 7.5	1000	ml
4006200	Tris(hydroxymethyl)aminomethane buffer solution pH 8.1	100	ml
4015200	Tris(hydroxymethyl)aminomethane buffer solution pH 9.0	1000	ml
4004900	Tris(hydroxymethyl)aminomethane sodium chloride buffer solution pH 7.4	1000	ml
4012200	Tris(hydroxymethyl)aminomethane sodium chloride buffer solution R1 pH 7.4	1000	ml
4006600	Tris(hydroxymethyl)aminomethane-EDTA buffer solution pH 8.4	500	ml
4005600.1L	Tris-hydrochloride buffer solution 0.05M pH 7.5	1000	ml
4013500.L1	Tris-hydrochloride buffer solution 0.05M pH 9.0	1000	ml
4009900	Tris-hydrochloride buffer solution 1.5M pH 8.8	500	ml
4009300	Tris-hydrochloride buffer solution 1M pH 6.8	500	ml
4014500	Tris-hydrochloride buffer solution 1M pH 7.5	1000	ml
4012700.1L	Tris-hydrochloride buffer solution 1M pH 8.0	1000	ml
4015000	Tris-hydrochloride buffer solution 3M pH 8.8	1000	ml
4012300.1L	Tris-hydrochloride buffer solution pH 8.0	1000	ml
4011800.1L	Tris-hydrochloride buffer solution pH 8.3	1000	ml
4012900	Tris-sodium acetate buffer solution pH 7.4	1000	ml
4013100.1L	Tris-sodium acetate buffer solution pH 8.0	1000	ml
4013000.1L	Tris-sodium acetate-sodium chloride buffer solution pH 7.4	1000	ml
4013200.1L	Tris-sodium acetate-sodium chloride buffer solution pH 8.0	1000	ml

Volumetric Solutions

Volumetric solutions are prepared according to the usual chemical analytical methods. The accuracy of the apparatus used is verified to ensure that it is appropriate for the intended use. The concentration of volumetric solutions is indicated in terms of molarity. Molarity expresses, as the number of moles, the amount of substance dissolved in 1 L of solution. The molarity of the volumetric solutions is determined by an appropriate number of titrations. The accuracy does not exceed 0.2 per cent (relative standard deviation). Volumetric solutions are standardized by the methods described in Ph Eur and accompanied by a Certificate of Analysis. The identity of CPChem's Products Codes with Ph Eur Codes (seven-figure reference code which will remain unchanged for a given reagent during subsequent revisions) makes the desired product easy to find.

Ref. Number	Description	Volume	Msr
3000100	Ammonium and cerium nitrate 0.1M	1000	ml
3000400	Ammonium and cerium sulphate 0.01M (acc. to old Ph Eur)	1000	ml
3000300	Ammonium and cerium sulphate 0.1M	1000	ml
3000300.L25	Ammonium and cerium sulphate 0.1M	250	ml
3000500	Ammonium thiocyanate 0.1M	1000	ml
3000500.L5	Ammonium thiocyanate 0.1M	500	ml
3000600	Barium chloride 0.1M	1000	ml
3010200	Barium perchlorate 0.005M	100	ml
3010200.1L	Barium perchlorate 0.005M	1000	ml
3009600	Barium perchlorate 0.025M - (acc. to old Ph Eur)	1000	ml
3009600.L5	Barium perchlorate 0.025M - (acc. to old Ph Eur)	500	ml
3000700	Barium perchlorate 0.05M	1000	ml
3000900	Benzethonium chloride 0.004M	1000	ml
3000900.L1	Benzethonium chloride 0.004M	100	ml
2000200.100G	Benzoic Acid - C ₇ H ₆ O ₂ - reagent Ph Eur	100	g
3010000	Bismuth nitrate 0.01M	1000	ml
3001000	Bromide-bromate 0.0167M	1000	ml
3001100	Cerium sulphate 0.1 M	1000	ml
3001100.L5	Cerium sulphate 0.1 M	500	ml
3001200	Copper sulphate 0.02M	1000	ml
3008700	Cupriethylenediamine hydroxide solution 1M	1000	ml
2000900.80G	Ethylenediammonium iron(II) disulfate tetrahydrate	80	g
3001300	Ferric ammonium sulphate 0.1M	1000	ml
3001400	Ferrous sulphate 0.1M	1000	ml
3002100	Hydrochloric acid 0.1M	1000	ml
3002100.L5	Hydrochloric acid 0.1M	500	ml
3001800	Hydrochloric acid 1M	1000	ml
3001800.L5	Hydrochloric acid 1M	500	ml
3001700	Hydrochloric acid 2M	1000	ml
3001600	Hydrochloric acid 3M	1000	ml
3001500	Hydrochloric acid 6M	1000	ml
3008800	Hydrochloric acid, alcoholic 0.1M	1000	ml

Ref. Number	Description	Volume	Msr
3002900	Iodine 0.01M	1000	ml
3002900a	Iodine 0.01M	100	ml
3002700	Iodine 0.05M	1000	ml
3009400	Iodine 0.5M	1000	ml
3010100.L1L	Lanthanum nitrate 0.1M	1000	ml
3009700	Lead nitrate 0.05M - (acc. to old Ph Eur)	1000	ml
3009700a	Lead nitrate 0.05M - (acc. to old Ph Eur)	100	ml
3003100	Lead nitrate 0.1M	1000	ml
3003100.L5	Lead nitrate 0.1M	500	ml
3003400	Magnesium chloride 0.1M	1000	ml
3003600	Nitric acid 1M	1000	ml
3003900	Perchloric acid 0.1M	1000	ml
2000300.50G	Potassium Bromate - KBrO ₃ - reagent Ph Eur	50	g
3004200	Potassium bromate 0.033M	1000	ml
3004600	Potassium dichromate 0.0167M (acc to old Ph Eur)	1000	ml
2000400.50G	Potassium Hydrogen Phthalate - C ₈ H ₅ KO ₄ - reagent Ph Eur	50	g
3004700.L1L	Potassium hydrogen phthalate 0.1M	1000	ml
3004800	Potassium Hydroxide 0.1M	1000	ml
3009100	Potassium Hydroxide 1M - (acc. to old Ph Eur)	1000	ml
3009000	Potassium Hydroxide alcoholic 0.01M - (acc. to old Ph Eur)	1000	ml
3005100	Potassium Hydroxide alcoholic 0.1M - (acc. to old Ph Eur)	1000	ml
3005000	Potassium Hydroxide alcoholic 0.5M	1000	ml
3004900	Potassium Hydroxide in alcohol (60% v/v) 0.5M	1000	ml
3005200	Potassium iodate 0.05M	1000	ml
3009200	Potassium iodide 0.001M	1000	ml
3005300	Potassium permanganate 0.02M	1000	ml
3005300.L1	Potassium permanganate 0.02M	100	ml
3005300.L25	Potassium permanganate 0.02M	250	ml
2000500.50G	Primary standard - Sodium Carbonate - Na ₂ CO ₃ (anhydrous) - (acc. to old Ph Eur)	50	g
2000600.250G	Primary standard - Sodium Chloride - NaCl	250	g
2000700.100G	Primary standard - Sulphanilic Acid - C ₆ H ₇ N ₃ O ₃ S	100	g
2000800.100G	Primary standard - Zinc - Zn	100	g
3009300	Silver nitrate 0.001M - (acc. to old Ph Eur)	1000	ml
3009300a	Silver nitrate 0.001M - (acc. to old Ph Eur)	500	ml
3005600	Silver nitrate 0.1M	1000	ml
3005600.L1	Silver nitrate 0.1M	100	ml
3005800	Sodium arsenite 0.1M	500	ml
3005800.L1L	Sodium arsenite 0.1M	1000	ml
3006000	Sodium edetate 0.02M (acc to old Ph Eur edition)	1000	ml
3005900	Sodium edetate 0.1M	1000	ml
3005900.L5	Sodium edetate 0.1M	500	ml
3006600	Sodium hydroxide 0.1M	1000	ml
3006600.L5	Sodium hydroxide 0.1M	500	ml
3006300	Sodium hydroxide 1M	1000	ml
3006300.L5	Sodium hydroxide 1M	500	ml
3009800	Sodium hydroxide 2M	1000	ml
3007000	Sodium hydroxide, ethanolic 0.1M	1000	ml

Ref. Number	Description	Volume	Msr
3007000.L1	Sodium hydroxide, ethanolic 0.1M	100	ml
3007100	Sodium methoxide 0.1M	1000	ml
3007100.L1	Sodium methoxide 0.1M	100	ml
3007200	Sodium nitrite 0.1M	1000	ml
3009500.1L	Sodium periodate 0.1M	1000	ml
3007300	Sodium thiosulphate 0.1M	1000	ml
3007300.L5	Sodium thiosulphate 0.1M	500	ml
3008000	Sulphuric acid 0.05M - (acc. to old Ph Eur)	1000	ml
3008000.L5	Sulphuric acid 0.05M - (acc. to old Ph Eur)	500	ml
3007800	Sulphuric acid 0.5M	1000	ml
3008300	Tetrabutylammonium hydroxide 0.1M	1000	ml
3008300a	Tetrabutylammonium hydroxide 0.1M	100	ml
3008400	Tetrabutylammonium hydroxide in 2-propano 0.1M	1000	ml
3008500	Zinc chloride 0.05M	1000	ml
3008600	Zinc sulphate 0.1M	1000	ml
3008600.L5	Zinc sulphate 0.1M	500	ml

**INDIAN
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PRODUCTS**

Buffer Solutions

Ref. Number	Description	Volume	Msr
IP001	Boric Acid and Potassium Chloride 0.2M	100	ml
IP002	Disodium Hydrogen Phosphate 0.2M	100	ml
IP003	Hydrochloric Acid 0.2M	100	ml
IP007	Acetate Buffer pH 2.8	1000	ml
IP008	Acetate Buffer pH 3.4	1000	ml
IP009	Acetate Buffer pH 3.5	1000	ml
IP010	Acetate Buffer pH 3.7	1000	ml
IP011	Acetate Buffer pH 4.0	1000	ml
IP012	Acetate Buffer pH 4.4	1000	ml
IP013	Acetate Buffer pH 4.6	1000	ml
IP014	Acetate Buffer pH 4.7	1000	ml
IP015	Acetate Buffer pH 5.0	1000	ml
IP016	Acetate Buffer pH 5.5	1000	ml
IP017	Acetate Buffer pH 6.0	1000	ml
IP018	Acetate Buffer Solution	1000	ml
IP019	Acetic Acid-Ammonium Acetate Buffer	1000	ml
IP020	Acetic Ammonia Buffer Ethanolic pH 3.7	1000	ml
IP021	Acetone Solution, Buffered	1000	ml
IP022	Ammonia - Ammonium Chloride Buffer	1000	ml
IP023	Ammonia Buffer pH 9.5	1000	ml
IP024	Ammonia Buffer pH 10.0	1000	ml
IP025	Barbitone Buffer pH 7.4	1000	ml
IP026	Barbitone Buffer Mixed pH 8.6	100	ml
IP027	Boric Buffer pH 9.0	1000	ml
IP028	Buffer Solution pH 2.5	1000	ml
IP029	Carbonate Buffer pH 9.7	1000	ml
IP030	Chloride Buffer pH 2.0	1000	ml
IP031	Citro-phosphate Buffer pH 5.0	1000	ml
IP032	Citro-phosphate Buffer pH 6.0	1000	ml
IP033	Citro-phosphate Buffer pH 7.0	1000	ml
IP034	Citro-phosphate Buffer pH 7.2	1000	ml
IP035	Citro-phosphate Buffer pH 7.6	1000	ml
IP036	Cupric Sulphate Solution Buffered pH 4.0	1000	ml
IP037	Diethanolamine Buffer pH 10.0	1000	ml
IP038	Glycine Buffer pH 11.3	1000	ml
IP039	Glycine Buffer Solution	1000	ml
IP040	Imidazole Buffer pH 6.5	1000	ml
IP041	Palladium Chloride Solution, Buffered	100	ml
IP042	Phosphate Buffer pH 2.0	1000	ml
IP043	Phosphate Buffer pH 2.5	1000	ml
IP044	Phosphate Buffer pH 3.6	1000	ml
IP045	Phosphate Buffer Mixed pH 4.0	1000	ml
IP046	Phosphate Buffer pH 4.9	1000	ml
IP047	Phosphate Buffer pH 5.0	1000	ml

Ref. Number	Description	Volume	Msr
IP048	Phosphate Buffer Mixed pH 5.5	1000	ml
IP049	Phosphate Buffer pH 6.5	1000	ml
IP050	Phosphate Buffer Mixed pH 6.8	1000	ml
IP051	Phosphate Buffer Mixed pH 7.0	1000	ml
IP052	Phosphate Buffer with Azide, Mixed pH 7.0	1000	ml
IP053	Phosphate Buffer 0.067M Mixed pH 7.0	1000	ml
IP054	Phosphate Buffer 0.33M Mixed pH 7.5	1000	ml
IP055	Phosphate Buffer 0.02M pH 8.0	1000	ml
IP056	Phosphate Buffer, 0.025M Standard	1000	ml
IP057	Saline, Phosphate-buffered	1000	ml
IP058	Saline, Phosphate-buffered pH 6.4	1000	ml
IP059	Saline, Phosphate-buffered pH 7.4	1000	ml

Standards Solutions

Ref. Number	Description	Volume	Msr
IP338	Acetaldehyde Standard Solution 100 ppm C ₂ H ₄ O 100 times concentrated	100	ml
IP339	Aluminium Standard Solution concentrate 0.176% w/v aluminium potassium sulphate	100	ml
IP340	Aluminium Standard Solution concentrate 1.39% w/v aluminium nitrate	100	ml
IP361	Ammonium Thiocyanate 0.1M	1000	ml
IP341	Arsenic Standard Solution concentrate (1000 ppm As)	100	ml
IP342	Barium Standard Solution concentrate 0.178% w/v barium chloride	100	ml
IP343	Cadmium Standard Solution concentrate 0.228% w/v cadmium sulphate	100	ml
IP344	Calcium Standard Solution concentrate 1000 ppm Ca	100	ml
IP345	Calcium Standard Solution concentrate Ethanolic 1000 ppm Ca	100	ml
IP346	Chloride Standard Solution concentrate 0.0824% w/v sodium chloride	100	ml
IP348	Copper Standard Solution concentrate 0.393% w/v cupric sulphate	100	ml
IP347	Copper Standard Solution concentrate 1.965 g/l cupric sulphate	100	ml
IP349	Formaldehyde Standard Solution concentrate 3.0 g/l formaldehyde	100	ml
IP350	Iron Standard Solution concentrate 0.1726% w/v ferric ammonium sulphate	100	ml
IP351	Iron Standard Solution concentrate 7.022 g/l ferrous ammonium sulphate	100	ml
IP352	Lead Standard Solution 0.1% Pb	100	ml
IP353	Nickel Standard Solution concentrate 1000 ppm Ni	100	ml
IP354	Nitrate Standard Solution concentrate 0.163% w/v potassium nitrate	100	ml
IP355	Phosphate Standard Solution concentrate 0.143% w/v potassium dihydrogen phosphate	100	ml
IP356	Silver Standard Solution concentrate 0.079% w/v silver nitrate	100	ml
IP357	Sulphate Standard Solution concentrate 0.181% w/v potassium sulphate	100	ml
IP358	Sulphate Standard Solution concentrate Ethanolic, (0.181% w/v solution of potassium sulphate in ethanol (30%))	100	ml
IP359	Tin Standard Solution concentrate 0.500 g/l tin	100	ml
IP360	Zinc Standard Solution 100 ppm Zn	100	ml

General Reagents

Ref. Number	Description	Volume	Msr
IP199	4-Nitrobenzyl Chloride Solution	100	ml
IP062	Acetic Acid Sp. ,Dilute	1000	ml
IP061	Acetic Acid, Dilute	1000	ml
IP063	Acetic Anhydride-Dioxan Solution	50	ml
IP064	Aluminium Chloride Solution	100	ml
IP065	Aminohydroxynaphthalenesulphonic Acid Solution	100	ml
IP074	Ammonia Solution Sp., Dilute	100	ml
IP072	Ammonia Solution, Dilute	1000	ml
IP075	Ammonia Solution, Iron-free	100	ml
IP067	Ammonia-Ammonium Chloride Solution, Strong	100	ml
IP068	Ammonia-Cyanide Solution Sp	100	ml
IP069	Ammonia-Cyanide Wash Solution	100	ml
IP076	Ammonium Acetate, 0.1M	1000	ml
IP078	Ammonium Carbonate Solution	100	ml
IP077	Ammonium Carbonate, 2M	1000	ml
IP081	Ammonium Chloride Solution	100	ml
IP082	Ammonium Chloride Solution (Nessler's)	1000	ml
IP079	Ammonium Chloride, 2M	1000	ml
IP080	Ammonium Chloride-Ammonium Hydroxide Solution	100	ml
IP083	Ammonium Citrate Solution	1000	ml
IP085	Ammonium Citrate Solution Sp	100	ml
IP084	Ammonium Citrate Solution, Alkaline	100	ml
IP086	Ammonium Mercurithiocyanate Solution	100	ml
IP087	Ammonium Molybdate Solution	100	ml
IP088	Ammonium Molybdate Solution, Ethanolic (A+B)	50+200	ml
IP089	Ammonium Molybdate-Sulphuric Acid Solution	100	ml
IP090	Ammonium Nitrate, 0.007M	1000	ml
IP092	Ammonium Oxalate Solution	100	ml
IP091	Ammonium Oxalate, 0.1M	1000	ml
IP093	Ammonium Phosphate, Dibasic, 0.2M	1000	ml
IP095	Ammonium Thiocyanate Solution	100	ml
IP096	Ammonium Thioglycollate Solution	100	ml
IP097	Anisaldehyde Solution	100	ml
IP098	Anisaldehyde Solution, Ethanolic	100	ml
IP099	Antimony Trichloride Reagent (Solution I)	100	ml
IP100	Antimony Trichloride Solution	100	ml
IP101	Barium Chloride Solution	100	ml
IP101a	Barium Chloride Solution	1000	ml
IP103	Barium Hydroxide Solution	1000	ml
IP102	Barium Hydroxide, 0.1M	1000	ml
IP104	Blue Tetrazolium Solution	100	ml
IP105	Borax, 0.2 M	1000	ml
IP106	Boric Acid Solution	250	ml

Ref. Number	Description	Volume	Msr
IP108	Bromine Solution	100	ml
IP109	Bromine Solution, Acetic	1000	ml
IP110	Bromine Water	100	ml
IP107	Bromine, 0.0167M	1000	ml
IP111	Cadmium Iodide Solution	100	ml
IP113	Calcium Chloride Solution	100	ml
IP114	Cerous Nitrate Solution	1000	ml
IP115	Chloral Hydrate Solution	100	ml
IP116	Chloroform Water	1000	ml
IP117	Chromic Acid Solution	1000	ml
IP118	Chromotropic Acid Solution	100	ml
IP119	Citric Acid, 0.1 M	1000	ml
IP120	Citric-Molybdic Acid Solution	1000	ml
IP121	Cobalt Chloride Solution	100	ml
IP122	Cobalt Thiocyanate Solution	100	ml
IP123	Copper Solution, Alkaline (Solution I)	1000	ml
IP124	Copper Solution, Alkaline (Solution II)	100	ml
IP125	Cupric Chloride-Pyridine Reagent	100	ml
IP127	Cupric Sulphate 0.02 M	1000	ml
IP128	Cupric Sulphate Solution	1000	ml
IP129	Cupric Sulphate Solution, Weak	1000	ml
IP126	Cupri-Citric Solution	100	ml
IP130	Cupri-Tartaric Solution (I+II)	500+500	ml
IP131	Diazobenzenesulphonic Acid Solution	100	ml
IP132	Dichloroacetic Acid Solution	500	ml
IP133	Digoxin Reagent	100	ml
IP134	Dimethylaminobenzaldehyde Solution, Ethanolic	250	ml
IP135	Dimethylformamide Solution (5% v/v)	100	ml
IP137	Dinitrobenzene Solution	100	ml
IP138	Dinitrobenzoic Acid Solution	100	ml
IP139	Diphenylamine Solution	100	ml
IP140	Diphenylcarbazone Mercuric Reagent (I+II)	100+100	ml
IP141	Dipotassium Hydrogen Phosphate, 0.1M	1000	ml
IP144	Disodium Hydrogen Phosphate Solution	100	ml
IP153	Ethanol 20% (v/v)	1000	ml
IP152	Ethanol 25% (v/v)	1000	ml
IP151	Ethanol 40% (v/v)	1000	ml
IP150	Ethanol 50% (v/v)	1000	ml
IP149	Ethanol 60% (v/v)	1000	ml
IP148	Ethanol 70% (v/v)	1000	ml
IP147	Ethanol 75% (v/v)	1000	ml
IP146	Ethanol 80% (v/v)	1000	ml
IP145	Ethanol 90% (v/v)	1000	ml
IP154	Ethanol, aldehyde-free	1000	ml
IP155	Ferric Ammonium Sulphate Solution	100	ml
IP156	Ferric Ammonium Sulphate Solution, Acid	100	ml
IP158	Ferric Chloride Solution	100	ml
IP159	Ferric Chloride Test Solution	100	ml

Ref. Number	Description	Volume	Msr
IP157	Ferric Chloride-Ferricyanide-Arsenite Solution (I+II+III)	500+500+100	ml
IP160	Formic Acid, 15M	100	ml
IP162	Hydrazine Reducing Mixture	100	ml
IP161	Hydrazine-molybdate Reagent	100	ml
IP166	Hydrochloric Acid AsT, Stannated	100	ml
IP164	Hydrochloric Acid, Dilute	1000	ml
IP167	Hydroxylamine Hydrochloride Reagent	1000	ml
IP168	Hydroxylamine Hydrochloride Solution	100	ml
IP169	Hydroxylamine Hydrochloride Solution Sp	100	ml
IP170	Hydroxylamine Solution, Ethanolic(90%)	100	ml
IP171	Hypophosphorus Reagent	100	ml
IP173	Imidazole Solution	100	ml
IP172	Imidazole-Mercury Reagent	100	ml
IP174	Indigo Carmine Solution	100	ml
IP176	Iodine bromide solution	1000	ml
IP177	Iodine Solution	100	ml
IP178	Lanthanum Nitrate Solution	100	ml
IP179	Lead Acetate Cotton	10	g
IP180	Lead Acetate Solution	1000	ml
IP181	Lead Nitrate Solution	1000	ml
IP182	Lead Nitrate Stock Solution	1000	ml
IP183	Lead Subacetate Solution	100	ml
IP184	Lithium Perchlorate, 0.1 M	1000	ml
IP185	Magenta Solution, Decolorised	100	ml
IP186	Magnesium Sulphate Solution, Ammoniacal	100	ml
IP187	Mercuric Acetate Solution	100	ml
IP188	Mercuric Bromide Solution, ethanolic	100	ml
IP190	Mercuric Chloride Solution	100	ml
IP189	Mercuric Chloride, 0.2 M	1000	ml
IP191	Mercuric Sulphate Solution	100	ml
IP192	Methanesulphonic Acid, 2 M Methanolic	1000	ml
IP193	Methanol, Aldehyde-free	1000	ml
IP136	N,N-Dimethyl-p-phenylenediamine Sulphate Solution	100	ml
IP194	Naphthalenediol Reagent Solution	100	ml
IP195	Ninhydrin Solution	100	ml
IP196	Ninhydrin Solution, Ethanolic	100	ml
IP198	Nitric Acid, Dilute	100	ml
IP200	Pararosaniline Solution, Decolorised	100	ml
IP202	Periodic-Acetic Acids Solution	100	ml
IP203	Phenanthroline Solution	100	ml
IP204	Phenol Reagent	100	ml
IP205	Phosphomolybdic Acid Reagent	100	ml
IP207	Phosphoric Acid, Dilute	100	ml
IP208	Phosphotungstic Acid Solution	100	ml
IP209	Picric Acid Solution	100	ml
IP210	Potassium Bromate, 0.0167 M	1000	ml
IP211	Potassium Bromate, 0.0333 M	1000	ml
IP212	Potassium Bromide, 0.001 M	1000	ml

Ref. Number	Description	Volume	Msr
IP213	Potassium Carbonate, 2 M	1000	ml
IP004	Potassium Chloride 0.2M	1000	ml
IP214	Potassium Chromate Solution	100	ml
IP215	Potassium Cupri-Tartrate Solution (500ml + 500 ml)	1000	ml
IP216	Potassium Cyanide Solution	100	ml
IP217	Potassium Cyanide Solution Sp	100	ml
IP218	Potassium Dichromate Solution	1000	ml
IP220	Potassium Dichromate Solution UV(2x10 ml Potassium Dichromate Solution for Absorbance Control at 430 nm and 6x10 ml blank)	2x10+6x10	ml
IP219	Potassium Dichromate Solution, Dilute	1000	ml
IP005	Potassium Dihydrogen Phosphate 0.2M	1000	ml
IP222	Potassium Ferrocyanide Solution	100	ml
IP006	Potassium Hydrogen Phthalate 0.2M	1000	ml
IP225	Potassium Hydroxide Solution	100	ml
IP227	Potassium Iodate Solution	100	ml
IP229	Potassium Iodide Solution	100	ml
IP230	Potassium Iodide Solution, Dilute	100	ml
IP231	Potassium Iodide Solution, Iodinated	100	ml
IP228	Potassium Iodide, 1M	100	ml
IP232	Potassium Iodobismuthate Solution	500	ml
IP233	Potassium Iodobismuthate Solution, Acetic	100	ml
IP234	Potassium Iodobismuthate Solution, Dilute	500	ml
IP235	Potassium Iodoplatinate solution	10	ml
IP236	Potassium Mercuri-Iodide Solution	100	ml
IP237	Potassium Mercuri-Iodide Solution, Alkaline	100	ml
IP240	Potassium Permanganate Solution	100	ml
IP240a	Potassium Permanganate Solution	1000	ml
IP241	Potassium Permanganate Solution, Dilute	100	ml
IP241a	Potassium Permanganate Solution, Dilute	1000	ml
IP239	Potassium Permanganate-Phosphoric Acid Solution	100	ml
IP242	Potassium Thiocyanate Solution	100	ml
IP242a	Potassium Thiocyanate Solution	1000	ml
IP244	Quinoline Solution	100	ml
IP245	Semicarbazide Acetate Solution	100	ml
IP247	Silver Nitrate Solution	100	ml
IP248	Silver Nitrate-Pyridine Reagent	100	ml
IP258	Sodium 1 Decasulphonate Solution	100	ml
IP250	Sodium Arsenite Solution	100	ml
IP249	Sodium Arsenite, 0.1 M	1000	ml
IP252	Sodium Bicarbonate Solution	1000	ml
IP255	Sodium Carbonate Solution	100	ml
IP256	Sodium Carbonate Solution, Dilute	100	ml
IP260	Sodium Heptanesulphonate	100	ml
IP261	Sodium Hexanesulphonate, 0.03M	1000	ml
IP264	Sodium Hydroxide Solution	100	ml
IP265	Sodium Hydroxide Solution, Dilute	100	ml
IP266	Sodium Hypobromite Solution, Alkaline	100	ml
IP268	Sodium Molybdotungstophosphate solution	500	ml

Ref. Number	Description	Volume	Msr
IP269	Sodium Nitroprusside Carbonate Solution	100	ml
IP270	Sodium Octanesulphonate, 0.02M	1000	ml
IP271	Sodium Phosphate Solution	100	ml
IP272	Sodium Sulphide Solution	100	ml
IP274	Stannous Chloride Solution	100	ml
IP275	Stannous Chloride Solution AsT	100	ml
IP275a	Stannous Chloride Solution AsT	1000	ml
IP276	Starch Iodide Solution	100	ml
IP277	Starch Solution	100	ml
IP279	Sulphomolybdic Acid Solution	100	ml
IP282	Sulphuric Acid, Dilute	100	ml
IP285	Sulphuric Acid-Formaldehyde Reagent	100	ml
IP288	Thiocetamide Solution	1000	ml
IP289	Trichloroacetic Acid Solution	1000	ml
IP290	Wash Solution pH 2.5	500	ml
IP292	Water, Carbon Dioxide-free	1000	ml
IP291	Water, Ammonia-free	1000	ml
IP293	Zinc and Sodium Carbonate Reagent	30	ml
IP295	Zinc Chloride Solution, Iodinated	100	ml
IP294	Zinc Chloride-Formic Acid solution	1000	ml
IP297	Zinc Sulphate Solution	100	ml
IP298	Zirconyl Nitrate Solution	100	ml

Indicators & Test Papers

In the test and assays of the Pharmacopoeia, indicators are required to indicate the completion of a chemical reaction in volumetric analysis or to indicate the pH of solutions.

Indicators

Ref. Number	Description	Volume	Msr
IP318	1-Naphtholbenzein Solution	100	ml
IP299	Alizarin Red S Solution	100	ml
IP300	Brilliant Green Solution	100	ml
IP301	Bromocresol Green Solution	100	ml
IP302	Bromocresol Purple Solution	100	ml
IP303	Bromophenol Blue Solution	100	ml
IP304	Bromothymol Blue Solution	100	ml
IP306	Cresol Red Solution	100	ml
IP307	Crystal Violet Solution	100	ml
IP308	Dimethyl Yellow Solution	100	ml
IP309	Eosin Solution	100	ml
IP310	Eriochrome Black T Mixture	100	ml
IP311	Ferrouin Solution	100	ml
IP312	Litmus Solution	250	ml
IP313	Metanil Yellow Solution	100	ml

Ref. Number	Description	Volume	Msr
IP314	Methyl Orange Solution	100	ml
IP316	Methyl Red Solution	100	ml
IP315	Methyl Red-Methylene Blue Solution	100	ml
IP317	Methylene Blue Solution	100	ml
IP319	Neutral Red Solution	100	ml
IP320	Nile Blue A Solution	100	ml
IP321	Phenol Red Solution	100	ml
IP322	Phenolphthalein Solution	100	ml
IP323	Phenolphthalein Solution, Dilute	100	ml
IP324	Phenolphthalein-Thymol Blue Solution (A+B)	100+150	ml
IP325	Pyridylazonaphthol Solution	100	ml
IP326	Quinaldine Red Solution	100	ml
IP327	Ruthenium Red Solution	100	ml
IP328	Thymol Blue Solution	100	ml
IP329	Thymol Blue Solution, Ethanolic	100	ml
IP330	Thymolphthalein Solution	100	ml
IP331	Titan Yellow Solution	100	ml
IP332	Xylenol Orange Mixture	50	ml

Test Papers

Ref. Number	Description	Volume	Msr
IP333	Lead Acetate Paper	1	pack of 50
IP334	Mercuric Chloride Paper	1	pack of 50
IP335	Starch Iodate Paper	1	pack of 50
IP336	Starch Iodide Paper	1	pack of 50
IP337	Titan Yellow Paper	1	pack of 50

Volumetric Reagents & Solutions

Volumetric solutions, also known as standard solutions, are solutions of reagents of known concentrations intended primarily for use in quantitative determinations. Concentrations are usually expressed in terms of molarity (M).

Molar Solutions

A molar solution contains 1g molecule of the reagent in 1000 ml of the solution. Solutions containing one-tenth of a gram-molecule of the reagent in 1000 ml are designated as 'tenth-molar' or 0.1 M; other molarities are similarly indicated.

Preparation and Standardisation of Volumetric Solutions

It is not always possible nor is it essential, to prepare volumetric solutions of a desired theoretical molarity. A solution of approximately the desired molarity is prepared and standardised by titration against a solution of a primary standard. The molarity

The molarity factor so obtained is used in all calculations, where such standardised solutions are employed. The molarity of Volumetric solutions is determined with a precision of 0.2%. The water used in preparing volumetric solutions complies with the requirements of the monograph on Purified Water, unless otherwise specified.

Ref. Number	Description	Volume	Msr
IP362	Barium Chloride 0.05M	1000	ml
IP363	Benzethonium Chloride 0.004M	1000	ml
IP364	Bromine 0.05M	1000	ml
IP365	Ceric Ammonium Nitrate 0.1 M	1000	ml
IP366	Ceric Ammonium Sulphate 0.1M	1000	ml
IP367	Cupric Sulphate 0.02M	1000	ml
IP368	Dioctyl Sodium Sulphosuccinate 0.0005M	100	ml
IP369	Disodium Edetate 0.1M	1000	ml
IP370	Ferric Ammonium Sulphate 0.1M	1000	ml
IP371	Ferrous Ammonium Sulphate 0.1 M	1000	ml
IP372	Hydrochloric Acid 1M	1000	ml
IP373	Hydrochloric Acid Methanolic 0.05 M	1000	ml
IP374	Iodine 0.05 M	1000	ml
IP375	Lead Nitrate 0.1 M	1000	ml
IP376	Magnesium Sulphate 0.05 M	1000	ml
IP377	Mercuric Nitrate 0.02M	1000	ml
IP378	Nitric Acid 1M	1000	ml
IP379	Perchloric Acid 0.1 M	1000	ml
IP380	Potassium Dichromate 0.0167 M	1000	ml
IP381	Potassium Hydrogen Phthalate 0.05 M	1000	ml
IP382	Potassium Hydroxide 0.1 M	1000	ml
IP383	Potassium Hydroxide Ethanolic 0.1M	1000	ml
IP384	Potassium Hydroxide in ethanol (60%) 0.5 M	1000	ml
IP385	Potassium Iodate 0.05 M	1000	ml
IP386	Potassium Permanganate 0.02 M	1000	ml
IP387	Silver Nitrate 0.1 M	1000	ml
IP388	Sodium Hydroxide 1M	1000	ml
IP389	Sodium Hydroxide Ethanolic 0.1 M	1000	ml
IP390	Sodium Methoxide 0.1 M	1000	ml
IP391	Sodium Nitrite 0.1 M	1000	ml
IP392	Sodium Thiosulphate 0.1M	1000	ml
IP393	Sulphuric Acid 0.5M	1000	ml
IP394	Sulphuric Acid Ethanolic 0.25M	1000	ml
IP395	Tetrabutylammonium Hydroxide 0.1M	1000	ml
IP396	Zinc Chloride 0.1M	1000	ml
IP397	Zinc Sulphate 0.1M	1000	ml

Primary Standards

These are materials which, after drying under the specified conditions, are recommended for use as primary standards in the standardisation of volumetric solutions. The following are recommended for use as primary standards.

Ref. Number	Description	Volume	Msr
IP398.100G	Benzoic Acid	100	g
IP399.50G	Potassium Bromate	50	g
IP400.80G	Potassium Dichromate	80	g
IP401.50G	Potassium Hydrogen Phthalate	50	g
IP402.50G	Potassium Iodate	50	g
IP403.50G	Sodium Carbonate, Anhydrous	50	g
IP404.250G	Sodium Chloride	250	g
IP405.100G	Sulphanilic Acid	100	g
IP406.100G	Zinc, Granulated	100	g

**INTERNATIONAL
PHARMACOPOEIA
PRODUCTS**

International Pharmacopoeia products

The International Pharmacopoeia (Ph. Int.) constitutes a collection of recommended procedures for analysis and specifications for the determination of pharmaceutical substances, excipients, and dosage forms that is intended to serve as source material for reference or adaptation by any WHO Member State wishing to establish pharmaceutical requirements. The test solutions and volumetric solutions mentioned in the International Pharmacopoeia, are described below. The test solutions are denoted by the abbreviation TS, and the volumetric solutions, or solutions that are similarly standardized, by the abbreviation VS. The concentrations are expressed in conformity with the International System of Units (SI) and they refer to the anhydrous substance. Unless otherwise specified, all solutions indicated in the tests and assays of the International Pharmacopoeia are prepared with water R.

Buffer Solutions

Ref. Number	Description	Volume	Msr
INP001	Acetate buffer TS pH 3.0	1000	ml
INP002	Acetate buffer TS pH 4.5	1000	ml
INP003	Acetate buffer TS pH 4.6	1000	ml
INP004	Acetate buffer TS pH 4.7	1000	ml
INP005	Acetate buffer TS pH 5.0	1000	ml
INP006	Acetate buffer TS pH 5.5	1000	ml
INP007	Acetate buffer TS pH 6.0	1000	ml
INP008	Acetate standard buffer TS	1000	ml
INP028	Ammonia buffer TS	1000	ml
INP029	Ammonia buffer TS2	1000	ml
INP033	Ammonium acetate buffer TS pH 4.62	1000	ml
INP037	Ammonium chloride buffer TS pH 10.0	1000	ml
INP038	Ammonium chloride buffer TS pH 10.5	1000	ml
INP051	Ammonium persulfate/phosphate buffer TS	1000	ml
INP076	Borate buffer TS pH 8.0	1000	ml
INP077	Borate buffer TS pH 9.0	1000	ml
INP078	Borate buffer TS pH 9.6	1000	ml
INP104	Citrate buffer TS pH 4.0	1000	ml
INP105	Citrate buffer TS pH 5.4	1000	ml
INP301	Phosphate buffer TS pH 4.0	1000	ml
INP302	Phosphate buffer TS pH 6.4	1000	ml
INP303	Phosphate buffer TS pH 6.9	1000	ml
INP304	Phosphate buffer TS (0.067 mol/l) pH 7.0	1000	ml
INP305	Phosphate buffer TS pH 7.0	1000	ml
INP306	Phosphate buffer TS pH 7.2	1000	ml
INP307	Phosphate buffer TS pH 7.4	1000	ml

Ref. Number	Description	Volume	Msr
INP308	Phosphate buffer TS pH 7.6	1000	ml
INP309	Phosphate buffer TS pH 8.0	1000	ml
INP311	Phosphate standard buffer TS pH 6.8	1000	ml
INP312	Phosphate standard buffer TS pH 7.4	1000	ml
INP313	Phosphate/citrate buffer TS pH 4.5	1000	ml
INP314	Phosphate/citrate buffer TS pH 6.0	1000	ml
INP320	Phthalate buffer TS pH 3.4	1000	ml
INP321	Phthalate buffer TS pH 3.5	1000	ml
INP322	Phthalate buffer TS pH 4.0	1000	ml

Test Solutions

Ref. Number	Description	Volume	Msr
INP271	1-Naphthol/ethanol TS	100	ml
INP135	2,6-Dichloroquinone chlorimide/ethanol TS	100	ml
INP021	4-Aminoantipyrine TS1	30	ml
INP140	4-Dimethylaminobenzaldehyde TS2	100	ml
INP141	4-Dimethylaminobenzaldehyde TS3	100	ml
INP142	4-Dimethylaminobenzaldehyde TS4	100	ml
INP143	4-Dimethylaminobenzaldehyde TS5	100	ml
INP279	4-Nitroaniline TS1	100	ml
INP533	4-Toluenesulfonic acid/ethanol TS	100	ml
INP010	Acetic acid TS ~120 g/l	100	ml
INP011	Acetic acid TS ~300 g/l	100	ml
INP013	Acetic acid TS ~60 g/l	100	ml
INP012	Acetic acid TS ~60 g/l Pb	100	ml
INP009	Acetic acid TS ~90 g/l	100	ml
INP015	Acetic acid TS 5.0 g/l	100	ml
INP016	Acetic anhydride/dioxan TS	100	ml
INP017	Acetonitrile TS 400 g/l	100	ml
INP018	Aluminium chloride TS	100	ml
INP019	Aluminium standard 10 times concentrated TS 2 ppm Al	100	ml
INP024	Ammonia TS ~100 g/l	100	ml
INP022	Ammonia TS ~100 g/l Fe	100	ml
INP023	Ammonia TS ~100 g/l Pb	100	ml
INP025	Ammonia TS ~17 g/l	1000	ml
INP026	Ammonia TS ~35 g/l	1000	ml
INP027	Ammonia TS ~50 g/l	1000	ml
INP030	Ammonium acetate TS 100 g/l	100	ml
INP031	Ammonium acetate TS 50 g/l	1000	ml
INP032	Ammonium acetate TS 80 g/l	1000	ml
INP034	Ammonium chloride 10 times concentrated TS 10 ug/ml NH ₄	100	ml
INP040	Ammonium chloride dilute TS	1000	ml
INP039	Ammonium chloride TS (Nessler's reagent)	1000	ml
INP035	Ammonium chloride TS 100 g/l	100	ml
INP036	Ammonium chloride TS 20 g/l	1000	ml
INP041	Ammonium mercurithiocyanate TS	100	ml

Ref. Number	Description	Volume	Msr
INP042	Ammonium molybdate TS 45 g/l	100	ml
INP043	Ammonium molybdate TS 95 g/l	100	ml
INP044	Ammonium molybdate/nitric acid TS	100	ml
INP045	Ammonium molybdate/sulfuric acid TS	100	ml
INP046	Ammonium molybdate/vanadate TS	100	ml
INP048	Ammonium nitrate TS	100	ml
INP047	Ammonium nitrate TS 50 g/l	100	ml
INP049	Ammonium oxalate TS 25 g/l	100	ml
INP050	Ammonium oxalate TS 50 g/l	100	ml
INP053	Ammonium sulfamate TS 25 g/l	100	ml
INP054	Ammonium sulfamate TS 5 g/l	100	ml
INP055	Ammonium sulfamate TS 50 g/l	100	ml
INP056	Ammonium sulfide TS	100	ml
INP060	Ammonium thiocyanate TS 10 g/l	100	ml
INP061	Ammonium thiocyanate TS 75 g/l	100	ml
INP062	Ammonium thiocyanate-cobalt (II) nitrate TS	100	ml
INP063	Aniline TS 25 g/l	100	ml
INP064	Anisaldehyde TS	100	ml
INP065	Anisaldehyde/sulfuric acid TS	30	ml
INP066	Antimony trichloride TS	100	ml
INP067	Arsenic strong As TS	100	ml
INP068	Azo violet TS	40	ml
INP071	Barium chloride TS 50 g/l	1000	ml
INP074	Benzalkonium chloride TS1	100	ml
INP075	Blue tetrazolium/ethanol TS	100	ml
INP079	Boric acid (50 g/l) TS	100	ml
INP080	Brilliant green/acetic acid TS	100	ml
INP081	Bromine As TS	100	ml
INP082	Bromocresol green TS1	100	ml
INP083	Bromocresol green/ethanol TS	100	ml
INP084	Bromocresol purple/ethanol TS	100	ml
INP086	Bromophenol blue TS	100	ml
INP085	Bromophenol blue TS 1g/l	100	ml
INP087	Bromophenol blue/ethanol TS	250	ml
INP088	Bromothymol blue/dimethylformamide TS	100	ml
INP089	Bromothymol blue/ethanol TS	100	ml
INP090	Brown stock standard TS	100	ml
INP092	Calcium chloride TS 3.7 g/l	1000	ml
INP093	Calcium chloride TS 55 g/l	1000	ml
INP094	Calcium standard (10 ug/ml Ca) TS	100	ml
INP095	Calcium standard (100 ug/ml Ca), ethanolic, TS	100	ml
INP096	Calcium sulfate TS	100	ml
INP100	Ceric ammonium sulfate/nitric acid TS	100	ml
INP102	Ceric sulfate TS 35 g/l	1000	ml
INP103	Chloride standard (5 ug/l) TS	100	ml
INP106	Citric acid TS 180 g/l Fe	1000	ml
INP107	Citric acid TS 20 g/l	1000	ml
INP109	Cobalt colour strong TS	100	ml

Ref. Number	Description	Volume	Msr
INP108	Cobalt colour TS	125	ml
INP112	Cobalt(II) chloride TS	100	ml
INP110	Cobalt(II) chloride TS 30 g/l	100	ml
INP111	Cobalt(II) chloride TS 5 g/l	100	ml
INP113	Cobalt(II) nitrate TS 10 g/l	100	ml
INP114	Cobalt(II) nitrate TS 100 g/l	100	ml
INP115	Cobaltous chloride TS	100	ml
INP116	Colbatous thiocyanate TS	100	ml
INP118	Copper colour strong TS	100	ml
INP117	Copper colour TS	125	ml
INP119	Copper edetate TS	50	ml
INP120	Copper standard (10 ug/ml Cu) TS	100	ml
INP121	Copper standard (5 ug/ml Cu) TS	100	ml
INP122	Copper standard TS1	100	ml
INP123	Copper standard TS2	100	ml
INP124	Copper tetramine hydroxide TS	100	ml
INP125	Copper(II) acetate TS 45 g/l	100	ml
INP126	Copper(II) chloride/ammonia TS	100	ml
INP127	Copper(II) sulfate TS 1 g/l	100	ml
INP128	Copper(II) sulfate TS 160 g/l	100	ml
INP129	Copper(II) sulfate TS 80 g/l	100	ml
INP130	Copper(II) sulfate/ammonia TS	100	ml
INP131	Cresol red/ethanol TS	100	ml
INP132	Crystal violet/acetic acid TS	100	ml
INP133	Diammonium hydrogen phosphate (100 g/l) TS	100	ml
INP134	Dichlorofluorescein TS	100	ml
INP137	Dichromate colour strong TS	100	ml
INP136	Dichromate colour TS	100	ml
INP138	Diethylphenylenediamine sulfate TS	100	ml
INP139	Dimethylamine/ethanol TS	100	ml
INP144	Dinitrobenzene/ethanol TS	100	ml
INP145	Diphenylamine/sulfuric acid TS	100	ml
INP146	Diphenylcarbazide TS	100	ml
INP147	Diphenylcarbazone/ethanol TS	100	ml
INP149	Disodium chromotropate TS	30	ml
INP148	Disodium chromotropate TS 10 g/l	100	ml
INP153	Disodium edetate TS 10 g/l	1000	ml
INP154	Disodium edetate TS 20 g/l	1000	ml
INP155	Disodium edetate TS 50 g/l	1000	ml
INP156	Disodium hydrogen phosphate TS 100 g/l	100	ml
INP157	Disodium hydrogen phosphate TS 28.4 g/l	100	ml
INP158	Disodium hydrogen phosphate TS 40 g/l	100	ml
INP159	Domiphen bromide TS 10 g/l	100	ml
INP159a	Domiphen bromide TS 10 g/l	1000	ml
INP160	Dragendorff reagent TS (A+B)	50+50	ml
INP161	Eosin Y TS 5 g/l	100	ml
INP162	Ethanol TS ~150 g/l	1000	ml
INP163	Ethanol TS ~375 g/l	1000	ml

Ref. Number	Description	Volume	Msr
INP164	Ethanol TS ~457 g/l	1000	ml
INP165	Ethanol TS ~535 g/l	1000	ml
INP166	Ethanol TS ~600 g/l	1000	ml
INP167	Ethanol TS ~675 g/l	1000	ml
INP168	Ethanol TS ~710 g/l	1000	ml
INP171	Ferric ammonium sulfate TS 45 g/l	1000	ml
INP172	Ferric ammonium sulfate TS1	100	ml
INP173	Ferric ammonium sulfate TS2	100	ml
INP174	Ferric chloride TS 25 g/l	100	ml
INP175	Ferric chloride TS 50 g/l	100	ml
INP176	Ferric chloride TS 65 g/l	100	ml
INP177	Ferric chloride/ferricyanide/arsenite TS (A+C)	100+100	ml
INP178	Ferroun TS	100	ml
INP180	Ferrous ammonium sulfate TS 1 g/l	100	ml
INP181	Fuchsin TS	100	ml
INP182	Fuchsin TS decolorized	100	ml
INP183	Glyoxal bis(2-hydroxyanil) TS	100	ml
INP184	Green stock standard TS	100	ml
INP185	Holmium perchlorate TS	100	ml
INP203	Hydrochloric acid Cl TS	100	ml
INP187	Hydrochloric acid stannated As TS ~250 g/l	100	ml
INP202	Hydrochloric acid TS ~250 g/l	1000	ml
INP186	Hydrochloric acid TS ~4 g/l	1000	ml
INP188	Hydrochloric acid TS ~70 g/l	1000	ml
INP209	Hydroxylamine hydrochloride TS	100	ml
INP207	Hydroxylamine hydrochloride TS 200 g/l	100	ml
INP208	Hydroxylamine hydrochloride TS 70 g/l	100	ml
INP210	Hydroxylamine hydrochloride TS2	100	ml
INP211	Imidazole/mercuric chloride TS	100	ml
INP212	Iodide standard (20 ug/ml) TS	100	ml
INP220	Iodine bromide TS	1000	ml
INP221	Iodine TS	100	ml
INP222	Iodine/chloroform TS	100	ml
INP223	Iodine/ethanol TS	1000	ml
INP225	Iron colour strong TS	100	ml
INP224	Iron colour TS	125	ml
INP226	Iron standard Fe TS	100	ml
INP227	Isoniazid TS	100	ml
INP228	Lanthanum nitrate TS 30 g/l	100	ml
INP229	Lead acetate TS 80 g/l	100	ml
INP233	Lead nitrate TS 100 g/l	100	ml
INP235	Lead strong Pb TS	100	ml
INP236	Lithium carbonate/trinitrophenol TS	100	ml
INP237	Lithium chloride TS 10 g/l	100	ml
INP239	Lithium perchlorate/acetic acid TS	100	ml
INP242	Magnesium standard (10 ug/ml Mg) TS	100	ml
INP243	Magnesium sulfate TS 50 g/l	100	ml
INP244	Magnesium sulfate/sulfuric acid TS	100	ml

Ref. Number	Description	Volume	Msr
INP240	Magnesium TS 0.1 mg/ml Mg	100	ml
INP245	Manganese sulfate TS 15 g/l	100	ml
INP247	Mercuric acetate/acetic acid TS	100	ml
INP248	Mercuric bromide As TS	100	ml
INP250	Mercuric chloride TS 2.7 g/l	100	ml
INP251	Mercuric chloride TS 65 g/l	100	ml
INP252	Mercuric chloride/ethanol TS	100	ml
INP255	Mercuric nitrate TS	100	ml
INP256	Mercuric sulfate TS	100	ml
INP258	Methyl orange ethanol TS	100	ml
INP259	Methyl orange/acetone TS	100	ml
INP260	Methyl red/ethanol TS	100	ml
INP261	Methyl red/methylthioninium chloride TS	40	ml
INP262	Methylamine hydrochloride TS 20 g/l	100	ml
INP263	Methylthioninium chloride TS 0.2 g/l	100	ml
INP264	Methylthioninium chloride TS 1 g/l	100	ml
INP267	N-(1-Naphthyl)ethylenediamine hydrochloride TS 1 g/l	100	ml
INP268	N-(1-Naphthyl)ethylenediamine hydrochloride TS 5 g/l	100	ml
INP269	N-(1-Naphthyl)ethylenediamine hydrochloride/1-propanol TS	30	ml
INP270	N-(1-Naphthyl)ethylenediamine/ethanol TS	100	ml
INP272	Neutral red/ethanol TS	100	ml
INP273	Ninhydrin/ 2-propanol TS 5 g/l	100	ml
INP274	Nitric acid TS ~130 g/l	1000	ml
INP277	Nitric acid TS 15 g/l	1000	ml
INP278	Nitric acid TS 3 g/l	1000	ml
INP281	Opalescence stock standard TS	100	ml
INP293	o-Phenanthroline TS	100	ml
INP292	o-Phenanthroline TS 1 g/l	100	ml
INP282	Oracet blue B/acetic acid TS	100	ml
INP283	Oxalic acid TS 0.05 g/l	100	ml
INP284	Oxalic acid/sulfuric acid TS	100	ml
INP284a	Oxalic acid/sulfuric acid TS	1000	ml
INP289	Perchloric acid TS	100	ml
INP285	Perchloric acid TS ~140 g/l	100	ml
INP291	Periodic-acetic acid TS	100	ml
INP295	Phenol red/ethanol TS	100	ml
INP294	Phenol TS 50 g/l	100	ml
INP296	Phenoldisulfonic acid TS	30	ml
INP297	Phenolphthalein/ethanol TS	100	ml
INP298	Phenolphthalein/pyridine TS	100	ml
INP299	Phenylhydrazine hydrochloride TS 10 g/l	100	ml
INP300	Phenylhydrazine/hydrochloric acid TS	100	ml
INP310	Phosphate standard (5 ug/ml) TS	100	ml
INP315	Phosphomolybdic acid TS 80 g/l	100	ml
INP316	Phosphomolybdic acid/ethanol TS	100	ml
INP317	Phosphoric acid TS ~105 g/l	1000	ml
INP319	Phosphoric acid TS ~2.8 g/l	100	ml
INP318	Phosphoric acid TS ~20 g/l	1000	ml

Ref. Number	Description	Volume	Msr
INP323	Platinic chloride TS 60 g/l	10	ml
INP324	Potassio-cupric tartrate TS (A+B)	50+50	ml
INP325	Potassio-mercuric iodide TS	500	ml
INP326	Potassium acetate TS	100	ml
INP330	Potassium bromate (50 g/l) TS	100	ml
INP330a	Potassium bromate (50 g/l) TS	1000	ml
INP331	Potassium bromide TS 0.119 g/l	100	ml
INP332	Potassium bromide TS 100 g/l	100	ml
INP333	Potassium bromide TS 125 g/l	100	ml
INP334	Potassium chloride TS 100 g/l	100	ml
INP335	Potassium chloride TS 350 g/l	100	ml
INP336	Potassium chromate TS 100 g/l	100	ml
INP339	Potassium cyanide Pb TS	100	ml
INP337	Potassium cyanide TS 100 g/l	100	ml
INP338	Potassium cyanide TS 50 g/l	100	ml
INP342	Potassium dichromate TS	100	ml
INP341	Potassium dichromate TS 100 g/l	100	ml
INP343	Potassium dichromate TS2	100	ml
INP344	Potassium dichromate TS3	100	ml
INP345	Potassium dihydrogen phosphate TS 100 g/l	100	ml
INP346	Potassium dihydrogen phosphate TS 13.6 g/l	100	ml
INP347	Potassium dihydrogen phosphate TS 27.2 g/l	100	ml
INP348	Potassium dihydrogen phosphate TS 70 g/l	100	ml
INP349	Potassium ferrocyanide TS 45 g/l	100	ml
INP350	Potassium hydrogen phthalate standard TS	100	ml
INP351	Potassium hydroxide TS ~110 g/l	100	ml
INP352	Potassium hydroxide TS ~400 g/l	100	ml
INP353	Potassium hydroxide TS ~55 g/l	100	ml
INP354	Potassium hydroxide TS ~560 g/l	100	ml
INP363	Potassium hydroxide/ethanol TS1	100	ml
INP364	Potassium hydroxide/ethanol TS2	100	ml
INP365	Potassium hydroxide/methanol TS	100	ml
INP368	Potassium iodide TS 100 g/l	100	ml
INP369	Potassium iodide TS 160 g/l	100	ml
INP370	Potassium iodide TS 300 g/l	100	ml
INP371	Potassium iodide TS 400 g/l	100	ml
INP372	Potassium iodide TS 60 g/l	100	ml
INP373	Potassium iodide TS 80 g/l	100	ml
INP374	Potassium iodide/starch TS1	100	ml
INP375	Potassium iodobismuthate TS1	500	ml
INP376	Potassium iodobismuthate TS2	500	ml
INP377	Potassium iodobismuthate/acetic acid TS	100	ml
INP378	Potassium iodoplatinate TS	100	ml
INP379	Potassium iodoplatinate TS2	100	ml
INP380	Potassium nitrite TS 100 g/l	100	ml
INP381	Potassium periodate TS	100	ml
INP389	Potassium permanganate basic TS ~1g/l	100	ml
INP388	Potassium permanganate basic TS ~5g/l	100	ml

Ref. Number	Description	Volume	Msr
INP387	Potassium permanganate TS ~1 g/l	100	ml
INP386	Potassium permanganate TS ~10 g/l	100	ml
INP385	Potassium permanganate TS ~25 g/l	100	ml
INP390	Potassium permanganate/phosphoric acid TS	100	ml
INP391	Potassium sulfate TS 0.1 g/l	100	ml
INP392	Potassium sulfate TS 174 mg/l	100	ml
INP393	Potassium tetraoxalate standard TS	100	ml
INP394	Potassium thiocyanate TS 200 g/l	100	ml
INP395	Pyrogallol, alkaline, TS (A+B)	50+50	ml
INP396	Quinaldine red/ethanol TS	100	ml
INP397	Quinaldine red/methanol TS	100	ml
INP398	Quinhydrone/methanol TS	100	ml
INP399	Red stock standard TS	100	ml
INP400	Resorcinol TS 20 g/l	100	ml
INP401	Salicylaldehyde TS	100	ml
INP402	Selenious acid/sulfuric acid TS	100	ml
INP408	Silver nitrate TS 40 g/l	100	ml
INP409	Silver standard (5 ug/ml Ag) TS	100	ml
INP411	Sodium acetate TS 150 g/l	100	ml
INP412	Sodium acetate TS 50 g/l	100	ml
INP413	Sodium acetate TS 60 g/l	100	ml
INP415	Sodium alizarinsulfonate TS 1 g/l	100	ml
INP416	Sodium alizarinsulfonate TS 10 g/l	100	ml
INP423	Sodium carbonate standard TS	100	ml
INP419	Sodium carbonate TS 10 g/l	100	ml
INP420	Sodium carbonate TS 200 g/l	100	ml
INP421	Sodium carbonate TS 50 g/l	100	ml
INP422	Sodium carbonate TS 75 g/l	100	ml
INP424	Sodium chloride TS 10 g/l	100	ml
INP425	Sodium chloride TS 300 g/l	100	ml
INP426	Sodium chloride TS 400 g/l	100	ml
INP427	Sodium chloride TS 9 g/l	100	ml
INP428	Sodium citrate TS 250 g/l	100	ml
INP430	Sodium diethyldithiocarbamate TS 0.8g/l	100	ml
INP431	Sodium dihydrogen phosphate TS 275g/l	100	ml
INP432	Sodium dihydrogen phosphate TS 45 g/l	100	ml
INP433	Sodium hydrogen carbonate TS 100 g/l	100	ml
INP434	Sodium hydrogen carbonate TS 40 g/l	100	ml
INP435	Sodium hydroxide TS ~150 g/l	100	ml
INP436	Sodium hydroxide TS ~200 g/l	100	ml
INP437	Sodium hydroxide TS ~300 g/l	100	ml
INP440	Sodium hydroxide TS ~40 g/l	100	ml
INP438	Sodium hydroxide TS ~400 g/l	100	ml
INP439	Sodium hydroxide TS ~80 g/l	100	ml
INP455	Sodium hydroxide TS 10 g/l	100	ml
INP456	Sodium hydroxide TS 50 g/l	100	ml
INP457	Sodium hydroxide/ethanol TS	100	ml
INP458	Sodium hydroxide/methanol TS	100	ml

Ref. Number	Description	Volume	Msr
INP459	Sodium laurilsulfate TS 10 g/l	100	ml
INP460	Sodium metabisulfite TS 50 g/l	100	ml
INP461	Sodium metaperiodate TS	100	ml
INP463	Sodium molybdotungstophosphate TS	500	ml
INP465	Sodium nitrite TS 10 g/l	100	ml
INP466	Sodium nitrite TS 100 g/l	100	ml
INP467	Sodium nitrite TS 20 g/l	100	ml
INP468	Sodium nitrite TS 3 g/l	100	ml
INP469	Sodium nitrite TS 35 g/l	100	ml
INP470	Sodium nitrite TS 50 g/l	100	ml
INP471	Sodium nitrite/hydrochloric acid TS	100	ml
INP472	Sodium nitroprusside TS 8.5 g/l	100	ml
INP473	Sodium nitroprusside TS alkaline	100	ml
INP474	Sodium salicylate TS 11.5 g/l	100	ml
INP475	Sodium standard (200 ug/ml Na) TS	100	ml
INP476	Sodium sulphide TS	100	ml
INP478	Sodium tetraborate standard TS	100	ml
INP477	Sodium tetraborate TS 10 g/l	100	ml
INP479	Sodium tetraphenylborate TS 30 g/l	100	ml
INP485	Sodium thiosulfate TS 320 g/l	100	ml
INP486	Stannous chloride As TS	100	ml
INP487	Stannous chloride TS	100	ml
INP488	Stannous chloride/hydrochloric acid TS1	100	ml
INP489	Sudan red TS	100	ml
INP490	Sulfamic acid TS 5 g/l	100	ml
INP491	Sulfanilic acid diazotized TS	40	ml
INP492	Sulfosalicylic acid TS 175 g/l	100	ml
INP493	Sulfuric acid TS ~10 g/l	100	ml
INP494	Sulfuric acid TS ~100 g/l	100	ml
INP495	Sulfuric acid TS ~1125 g/l	100	ml
INP496	Sulfuric acid TS ~190 g/l	100	ml
INP497	Sulfuric acid TS ~440 g/l	100	ml
INP498	Sulfuric acid TS ~50 g/l	100	ml
INP499	Sulfuric acid TS ~570 g/l	100	ml
INP500	Sulfuric acid TS ~635 g/l	100	ml
INP501	Sulfuric acid TS ~700 g/l	100	ml
INP510	Sulfuric acid/ethanol TS	100	ml
INP511	Sulfuric acid/methanol TS	100	ml
INP512	Tannic acid TS 50 g/l	100	ml
INP513	Tartaric acid TS 10 g/l	100	ml
INP514	Tartaric acid TS 200 g/l	100	ml
INP515	Tartaric acid TS 5 g/l	100	ml
INP517	Tetrabutylammonium hydroxide TS	100	ml
INP518	Tetrabutylammonium hydroxide/methanol TS	100	ml
INP519	Tetramethylammonium hydroxide/ethanol TS	100	ml
INP520	Thiourea TS 0.1 g/l	100	ml
INP522	Thymol blue/dimethylformamide TS	100	ml
INP523	Thymol blue/ethanol TS	100	ml

Ref. Number	Description	Volume	Msr
INP524	Thymol blue/methanol TS	100	ml
INP525	Thymol TS1	100	ml
INP526	Thymol TS2	100	ml
INP527	Thymol TS3	100	ml
INP528	Thymolphthalein/dimethylformamide TS	100	ml
INP529	Thymolphthalein/ethanol TS	100	ml
INP530	Titan yellow TS	100	ml
INP531	Titanium dioxide/sulfuric acid TS	100	ml
INP532	Titanium trichloride (0.1 mol/l) VS	1000	ml
INP534	Triketohydrindene/butanol TS	100	ml
INP535	Triketohydrindene/butanol/acetic acid TS	100	ml
INP536	Triketohydrindene/ethanol TS	100	ml
INP537	Triketohydrindene/pyridine/acetone TS	100	ml
INP538	Triketohydrindene/sodium metabisulfite TS	100	ml
INP539	Trimethylpyridine TS 50 g/l	100	ml
INP540	Trisodium orthophosphate TS 2 g/l	100	ml
INP541	Vanadium/sulfuric acid TS	100	ml
INP547	Yellow stock standard TS	100	ml
INP548	Zinc standard (20 ug/ml Zn) TS	100	ml
INP549	Zirconyl nitrate TS	100	ml

Volumetric Solutions

Ref. Number	Description	Volume	Msr
INP014	Acetic acid VS 0.07 mol/l	100	ml
INP057	Ammonium thiocyanate VS 0.01 mol/l	1000	ml
INP058	Ammonium thiocyanate VS 0.05 mol/l	1000	ml
INP059	Ammonium thiocyanate VS 0.1 mol/l	1000	ml
INP069	Barium chloride VS 0.1 mol/l	1000	ml
INP070	Barium chloride VS 0.5 mol/l	1000	ml
INP072	Barium hydroxide VS 0.15 mol/l	1000	ml
INP073	Barium nitrate VS 0.01 mol/l	1000	ml
INP091	Calcium acetate VS 0.25 mol/l	1000	ml
INP098	Ceric ammonium nitrate VS 0.01 mol/l	1000	ml
INP099	Ceric ammonium sulfate VS 0.1 mol/l	1000	ml
INP101	Ceric sulfate VS 0.1 mol/l	1000	ml
INP150	Disodium edetate VS 0.01 mol/l	1000	ml
INP151	Disodium edetate VS 0.05 mol/l	1000	ml
INP152	Disodium edetate VS 0.1 mol/l	1000	ml
INP170	Ferric ammonium sulfate VS 0.1 mol/l	1000	ml
INP179	Ferrous ammonium sulfate VS 0.1 mol/l	1000	ml
INP189	Hydrochloric acid VS 0.0001 mol/l	1000	ml
INP190	Hydrochloric acid VS 0.001 mol/l	1000	ml
INP191	Hydrochloric acid VS 0.005 mol/l	1000	ml
INP192	Hydrochloric acid VS 0.01 mol/l	1000	ml
INP193	Hydrochloric acid VS 0.015 mol/l	1000	ml
INP194	Hydrochloric acid VS 0.02 mol/l	1000	ml

Ref. Number	Description	Volume	Msr
INP195	Hydrochloric acid VS 0.05 mol/l	1000	ml
INP196	Hydrochloric acid VS 0.1 mol/l	1000	ml
INP197	Hydrochloric acid VS 0.2 mol/l	1000	ml
INP198	Hydrochloric acid VS 0.5 mol/l	1000	ml
INP199.1L	Hydrochloric acid VS 1 mol/l	1000	ml
INP200	Hydrochloric acid VS 2 mol/l	1000	ml
INP201	Hydrochloric acid VS 5 mol/l	1000	ml
INP204a	Hydrochloric acid/ethanol (1 mol/l) VS	1000	ml
INP205	Hydrochloric acid/ethanol VS 0.1 mol/l	100	ml
INP204	Hydrochloric acid/ethanol VS 1 mol/l	100	ml
INP206	Hydrochloric acid/methanol VS 0.01 mol/l	100	ml
INP213	Iodine VS 0.0001 mol/l	1000	ml
INP214	Iodine VS 0.0005 mol/l	1000	ml
INP215	Iodine VS 0.005 mol/l	1000	ml
INP216	Iodine VS 0.01 mol/l	1000	ml
INP217	Iodine VS 0.02 mol/l	1000	ml
INP218	Iodine VS 0.05 mol/l	1000	ml
INP219	Iodine VS 0.1 mol/l	1000	ml
INP231	Lead nitrate VS 0.05 mol/l	1000	ml
INP232	Lead nitrate VS 0.1 mol/l	1000	ml
INP241	Magnesium chloride VS 0.1 mol/l	1000	ml
INP253	Mercuric nitrate VS 0.01 mol/l	1000	ml
INP254	Mercuric nitrate VS 0.02 mol/l	1000	ml
INP265	Monoethanolamine VS 0.1 mol/l	100	ml
INP275	Nitric acid VS 0.05 mol/l	1000	ml
INP276	Nitric acid VS 1 mol/l	1000	ml
INP286	Perchloric acid (0.02 mol/l) VS	1000	ml
INP287	Perchloric acid VS 0.05 mol/l	1000	ml
INP288	Perchloric acid VS 0.1 mol/l	1000	ml
INP290	Perchloric acid/dioxan VS 0.1 mol/l	1000	ml
INP329	Potassium bromate (0.0333 mol/l) VS	1000	ml
INP327	Potassium bromate VS 0.00833 mol/l	1000	ml
INP328	Potassium bromate VS 0.0167 mol/l	1000	ml
INP340	Potassium dichromate VS 0.0167 mol/l	1000	ml
INP355	Potassium hydroxide VS 0.01 mol/l	1000	ml
INP356	Potassium hydroxide VS 0.1 mol/l	1000	ml
INP357	Potassium hydroxide VS 0.5 mol/l	1000	ml
INP358	Potassium hydroxide VS 1 mol/l	1000	ml
INP359	Potassium hydroxide/ethanol VS 0.02 mol/l	1000	ml
INP360	Potassium hydroxide/ethanol VS 0.1 mol/l	1000	ml
INP361	Potassium hydroxide/ethanol VS 0.5 mol/l	1000	ml
INP362	Potassium hydroxide/ethanol VS 1 mol/l	1000	ml
INP366	Potassium iodate VS 0.01 mol/l	1000	ml
INP367	Potassium iodate VS 0.05 mol/l	1000	ml
INP382	Potassium permanganate VS 0.0002 mol/l	1000	ml
INP383	Potassium permanganate VS 0.002 mol/l	1000	ml
INP384	Potassium permanganate VS 0.02 mol/l	1000	ml
INP403	Silver nitrate (0.001 mol/l) VS	1000	ml

Ref. Number	Description	Volume	Msr
INP404	Silver nitrate VS 0.01 mol/l	1000	ml
INP405	Silver nitrate VS 0.05 mol/l	1000	ml
INP406	Silver nitrate VS 0.1 mol/l	1000	ml
INP407	Silver nitrate VS 100 g/l	100	ml
INP410	Sodium acetate VS 0.04 mol/l	1000	ml
INP414	Sodium acetate/glacial acetic acid VS 0.1 mol/l	1000	ml
INP417	Sodium arsenite VS 0.05 mol/l	1000	ml
INP418	Sodium arsenite VS 0.1 mol/l	1000	ml
INP446	Sodium hydroxide (0.05 mol/l) VS	1000	ml
INP443	Sodium hydroxide carbonate-free VS 0.01 mol/l	1000	ml
INP445	Sodium hydroxide carbonate-free VS 0.02 mol/l	1000	ml
INP448	Sodium hydroxide carbonate-free VS 0.1 mol/l	1000	ml
INP450	Sodium hydroxide carbonate-free VS 0.2 mol/l	1000	ml
INP452	Sodium hydroxide carbonate-free VS 0.5 mol/l	1000	ml
INP454	Sodium hydroxide carbonate-free VS 1 mol/l	1000	ml
INP441	Sodium hydroxide VS 0.001 mol/l	1000	ml
INP442	Sodium hydroxide VS 0.01 mol/l	1000	ml
INP444	Sodium hydroxide VS 0.02 mol/l	1000	ml
INP447	Sodium hydroxide VS 0.1 mol/l	1000	ml
INP449	Sodium hydroxide VS 0.2 mol/l	1000	ml
INP451	Sodium hydroxide VS 0.5 mol/l	1000	ml
INP453.1L	Sodium hydroxide VS 1 mol/l	1000	ml
INP462	Sodium methoxide VS 0.1 mol/l	1000	ml
INP464	Sodium nitrite VS 0.1 mol/l	1000	ml
INP480	Sodium thiosulfate (0.002mol/l) VS	1000	ml
INP484	Sodium thiosulfate (0.1 mol/l) VS	1000	ml
INP481	Sodium thiosulfate VS 0.01 mol/l	1000	ml
INP482	Sodium thiosulfate VS 0.02 mol/l	1000	ml
INP483	Sodium thiosulfate VS 0.05 mol/l	1000	ml
INP502	Sulfuric acid (0.005 mol/l) VS	1000	ml
INP504	Sulfuric acid (0.05 mol/l) VS	1000	ml
INP503	Sulfuric acid VS 0.01 mol/l	1000	ml
INP505	Sulfuric acid VS 0.1 mol/l	1000	ml
INP506	Sulfuric acid VS 0.125 mol/l	1000	ml
INP507	Sulfuric acid VS 0.25 mol/l	1000	ml
INP508	Sulfuric acid VS 0.5 mol/l	1000	ml
INP509	Sulfuric acid/ethanol VS ~0.05 mol/l	100	ml
INP516	Tetrabutylammonium hydroxide VS 0.1 mol/l	1000	ml

Water Analysis Solutions

Ref. Number	Description	Volume	Msr
INP544	Water carbon-dioxide-free and ammonia-free R	1000	ml
INP545	Water carbon-dioxide-free R	1000	ml
INP543	Water R1	1000	ml
INP542	Water R5	5000	ml

Ethylene oxide Solutions

Ref. Number	Description	Volume	Msr
INP169	Ethylene oxide stock solution R	100	ml
INP169a	Ethylene oxide stock solution R	500	ml

Indicators and Test Papers

Ref. Number	Description	Volume	Msr
INP546.50G	Xylenol orange indicator mixture R	50	g
INP266	Mordant Black 11 indicator mixture R	100	ml
INP230	Lead acetate paper R (Pack of 50)	50	pack of 50
INP234	Lead nitrate paper R	50	pack of 50
INP246	Manganese/silver paper R (Pack of 50)	50	pack of 50
INP249	Mercuric bromide paper As R	50	pack of 50
INP257	Methyl green/iodomercurate paper R (pack of 50)	50	pack of 50

**JAPANESE
PHARMACOPOEIA
PRODUCTS**

Standard Solutions for Volumetric Analysis

Standard Solutions for Volumetric Analysis are the solutions of reagent with an accurately known concentration, mainly used for the volumetric analysis. They are prepared to a specified molar concentration. A 1 molar solution is a solution which contains exactly 1 mol of a specified substance in each 1000 mL of the solution and is designated as 1 mol/l. If necessary, these solutions are diluted to other specified molar concentrations and the diluted solutions are also used as standard solutions.

Ref. Number	Description	Volume	Msr
JPH002	Ammonium Iron (III) Sulfate 0.1 mol/l	1000	ml
JPH001	Ammonium Thiocyanate 0.1 mol/l	1000	ml
JPH005	Barium Chloride 0.01 mol/l (concentrate to be diluted)	1000	ml
JPH003	Barium Chloride 0.1 mol/l	1000	ml
JPH004	Barium Chloride, 0.02 mol /L	1000	ml
JPH006	Barium Perchlorate 0.005 mol/l	1000	ml
JPH007	Bismuth Nitrate 0.01 mol/l	1000	ml
JPH008	Bromine 0.05 mol/l	1000	ml
JPH009	Cerium (IV) Tetraammonium Sulfate	1000	ml
JPH012	Disodium Dihydrogen Ethylenediamine Tetraacetate 0.02 mol/l	1000	ml
JPH011	Disodium Dihydrogen Ethylenediamine Tetraacetate 0.05 mol/l	1000	ml
JPH010	Disodium Dihydrogen Ethylenediamine Tetraacetate, 0.1 mol/L	1000	ml
JPH016	Hydrochloric Acid 0.2 mol/l	1000	ml
JPH015	Hydrochloric Acid 0.5 mol/l	1000	ml
JPH014	Hydrochloric Acid 1 mol/l	1000	ml
JPH013	Hydrochloric Acid 2 mol/l	1000	ml
JPH017	Iodine 0.05 mol/l	1000	ml
JPH018	Magnesium Chloride 0.05 mol/l	1000	ml
JPH019	Oxalic Acid 0.05 mol/l	1000	ml
JPH020	Perchloric Acid 0.1 mol/l	1000	ml
JPH021	Perchloric Acid-1,4-Dioxane 0.1 mol/l	1000	ml
JPH022	Potassium Bromate 1/60 mol/l	1000	ml
JPH023	Potassium Dichromate 1/60 mol/l	1000	ml
JPH024	Potassium Hexacyanoferrate (III) 0.1 mol/l	1000	ml
JPH027	Potassium Hydroxide 0.1 mol/l	1000	ml
JPH026	Potassium Hydroxide 0.5 mol/l	1000	ml
JPH025	Potassium Hydroxide 1 mol/l	1000	ml
JPH543	Potassium Hydroxide-Ethanol, 0.1 mol/L	1000	ml
JPH028	Potassium Hydroxide-Ethanol, 0.5 mol/L	1000	ml
JPH029	Potassium Iodate 0.05 mol/l	1000	ml
JPH031	Potassium Iodate 1/1200 mol/l	1000	ml
JPH030	Potassium Iodate 1/60 mol/l	1000	ml
JPH032	Potassium Permanganate, 0.02 mol/L	1000	ml
JPH033	Silver Nitrate 0.1 mol/l	1000	ml
JPH034	Sodium Acetate, 0.1 mol/L	1000	ml
JPH038	Sodium Hydroxide 0.1 mol/l	1000	ml

Ref. Number	Description	Volume	Msr
JPH037	Sodium Hydroxide 0.2 mol/l	1000	ml
JPH036	Sodium Hydroxide 0.5 mol/l	1000	ml
JPH035	Sodium Hydroxide 1 mol/l	1000	ml
JPH039	Sodium Lauryl Sulfate 0.01 mol/l	1000	ml
JPH040	Sodium Methoxide 0.1 mol/l	1000	ml
JPH041	Sodium Methoxide-1,4-Dioxane 0.1 mol/l	1000	ml
JPH042	Sodium Nitrite 0.1 mol/l	1000	ml
JPH043	Sodium Oxalate 0.005 mol/l	1000	ml
JPH044	Sodium Thiosulfate 0.1 mol/l	1000	ml
JPH048	Sulfuric Acid 0.05 mol/l	1000	ml
JPH047	Sulfuric Acid 0.1 mol/l	1000	ml
JPH046	Sulfuric Acid 0.25 mol/l	1000	ml
JPH045	Sulfuric Acid 0.5 mol/l	1000	ml
JPH049	Titanium (III) Chloride, 0.1 mol/L	100	ml
JPH050	Zinc 0.1 mol/L	1000	ml
JPH052	Zinc Acetate 0.02 mol/l	1000	ml
JPH051	Zinc Acetate, 0.05 mol/L	1000	ml
JPH053	Zinc Sulfate, 0.1 mol/L	1000	ml

Standard Solutions

Standard Solutions are used as the standard for the comparison in a text of the Pharmacopoeia.

Ref. Number	Description	Volume	Msr
JPH066	Standard Aluminum Stock Solution	100	ml
JPH067	Standard Ammonium Solution	100	ml
JPH068	Standard Arsenic Stock Solution	100	ml
JPH069	Standard Boron Solution	100	ml
JPH070	Standard Cadmium Stock Solution	100	ml
JPH071	Standard Calcium Solution	100	ml
JPH072	Standard Calcium Solution for Atomic Absorption Spectrophotometry	100	ml
JPH073	Standard Copper Stock Solution	100	ml
JPH074	Standard Cyanide Stock Solution	100	ml
JPH075	Standard Fluorine Solution	100	ml
JPH077	Standard Gold Solution for Atomic Absorption Spectrophotometry	100	ml
JPH076	Standard Gold Stock Solution	100	ml
JPH078	Standard Iron Solution	100	ml
JPH079	Standard Lead Stock Solution	100	ml
JPH080	Standard Mercury Solution (100 times concentrated)	100	ml
JPH081	Standard Methanol Solution	100	ml
JPH082	Standard Nickel Solution	100	ml
JPH083	Standard Nitric Acid Solution	100	ml
JPH084	Standard Phosphoric Acid Solution	100	ml
JPH085	Standard Potassium Stock Solution	100	ml
JPH086	Standard Selenium Stock Solution	100	ml
JPH087	Standard Silver Stock Solution	100	ml
JPH088	Standard Sodium Dodecylbenzene Sulfonate Solution	100	ml

Ref. Number	Description	Volume	Msr
JPH089	Standard Sodium Stock Solution	100	ml
JPH090	Standard Tin Solution (100 times concentrated)	100	ml
JPH092	Standard Zinc Solution for Atomic Absorption Spectrophotometry (100 times concentrated)	100	ml
JPH091	Standard Zinc Stock Solution	100	ml

Matching Fluids for Color

Matching Fluids for Color are used as the reference for the comparison of color in a text of the Pharmacopoeia. When the color of the solution is compared with Matching Fluids for Color, unless otherwise specified, transfer both solutions and liquids to Nessler tubes and view transversely against a white background.

Ref. Number	Description	Volume	Msr
JPH093.L1	Cobalt (II) Chloride Colorimetric Stock Solution	100	ml
JPH094.L1	Copper (II) Sulfate Colorimetric Stock Solution	100	ml
JPH095.L1	Iron (III) Chloride Colorimetric Stock Solution	100	ml
JPH096	Matching Fluids for Color - kit of 20 fluids (A-T)	200	ml

Reagents and Test Solutions

Reagents are the substances used in the tests of the Pharmacopoeia. Test Solutions are the solutions prepared for use in the tests of the Pharmacopoeia.

Ref. Number	Description	Volume	Msr
JPH361	1,10-Phenanthroline TS	100	ml
JPH226	1,3-Dinitrobenzene TS alkaline (0.008mol/l solution)	100	ml
JPH346	1,3-Naphthalenediol	100	ml
JPH220	2,3-Diaminonaphthalene TS	100	ml
JPH521	2,4,6-Trinitrophenol TS	100	ml
JPH520	2,4,6-Trinitrophenol-ethanol TS	100	ml
JPH221	2,4-Diaminophenol hydrochloride TS	100	ml
JPH229	2,4-Dinitrophenylhydrazine TS	100	ml
JPH248	2,6-Di-tert-butylcresol TS	100	ml
JPH227	4,4-Dinitrophenylhydrazine-diethylene glycol dimethyl ether TS	100	ml
JPH228	4,4-Dinitrophenylhydrazine-ethanol TS	100	ml
JPH134	4-Aminoacetophenone TS	100	ml
JPH224	4-Dimethylaminobenzaldehyde-hydrochloric acid TS	100	ml
JPH225	4-Dimethylaminobenzylidene rhodanine TS	100	ml
JPH122	Acetic acid (100)-sulfuric acid TS	100	ml
JPH123	Acetic acid (31)	100	ml
JPH123a	Acetic acid (31)	1000	ml
JPH120	Acetic acid 6 mol/L TS	100	ml
JPH120a	Acetic acid 6 mol/L TS	1000	ml
JPH121	Acetic acid TS 0.25 mol/l	1000	ml
JPH105a	Acetic acid, dilute	1000	ml
JPH118	Acetic acid-sodium acetate TS	1000	ml
JPH119	Acetic acid-sodium acetate TS 0.02 mol/l	1000	ml

Ref. Number	Description	Volume	Msr
JPH124	Acetic anhydride-pyridine TS	100	ml
JPH125	Alizarin complexone TS	100	ml
JPH126	Alizarin red S TS	100	ml
JPH128	Alizarin yellow GG TS	100	ml
JPH127	Alizarin yellow GG-thymolphthalein TS	100	ml
JPH129	Alkali copper TS	100	ml
JPH130	Alkaline copper TS	100	ml
JPH131	Alkaline glycerin TS	100	ml
JPH132	Aluminon TS	100	ml
JPH133	Aluminum (III) chloride TS	100	ml
JPH141	Ammonia copper TS	100	ml
JPH144	Ammonia TS	100	ml
JPH144a	Ammonia TS	1000	ml
JPH145	Ammonia water 1 mol/l	100	ml
JPH146	Ammonia water 13.5 mol/l	100	ml
JPH142	Ammonia-ethanol TS	100	ml
JPH143	Ammonia-saturated 1-butanol TS	100	ml
JPH147	Ammonium acetate TS	100	ml
JPH148	Ammonium acetate TS 0.5 mol/l	100	ml
JPH149	Ammonium carbonate TS	100	ml
JPH152	Ammonium chloride TS	100	ml
JPH150	Ammonium chloride-ammonia TS	100	ml
JPH153	Ammonium dihydrogenphosphate TS 0.02 mol/l	100	ml
JPH155	Ammonium iron (III) sulfate TS	100	ml
JPH156	Ammonium iron (III) sulfate TS acidic	100	ml
JPH157	Ammonium iron (III) sulfate TS dilute	100	ml
JPH158	Ammonium oxalate TS	100	ml
JPH159	Ammonium peroxodisulfate 10% TS	100	ml
JPH162	Ammonium thiocyanate TS	100	ml
JPH161	Ammonium thiocyanate-cobalt (II) nitrate TS	100	ml
JPH163	Anthrone TS	100	ml
JPH164	Arsenic (III) trioxide TS	100	ml
JPH165	Arsenic trioxide TS	100	ml
JPH167	Barium chloride TS	100	ml
JPH168	Barium nitrate TS	100	ml
JPH169	Bismuth nitrate TS	100	ml
JPH170	Bismuth potassium iodide TS	100	ml
JPH171	Bismuth subnitrate TS	100	ml
JPH180	Bromine TS	100	ml
JPH179	Bromine-acetic acid TS	100	ml
JPH186	Bromocresol green TS	100	ml
JPH181	Bromocresol green-crystal violet TS	100	ml
JPH182	Bromocresol green-methyl red TS	100	ml
JPH185	Bromocresol green-sodium hydroxide TS	100	ml
JPH183	Bromocresol green-sodium hydroxide-acetic acid-sodium acetate TS	100	ml
JPH184	Bromocresol green-sodium hydroxide-ethanol TS	100	ml
JPH189	Bromocresol purple TS	100	ml
JPH187	Bromocresol purple-dipotassium hydrogenphosphatecitric acid TS	100	ml

Ref. Number	Description	Volume	Msr
JPH188	Bromocresol purple-sodium hydroxide TS	100	ml
JPH191	Bromophenol blue TS	100	ml
JPH192	Bromophenol blue TS 0.05%	100	ml
JPH190	Bromophenol blue-potassium biphthalate TS	100	ml
JPH196	Bromothymol blue TS	100	ml
JPH195	Bromothymol blue-sodium hydroxide TS	100	ml
JPH197	Calcium chloride TS	100	ml
JPH199	Cerium (III) nitrate TS	100	ml
JPH201	Cerium (IV) tetraammonium sulfate TS	100	ml
JPH200	Cerium (IV) tetraammonium sulfate-phosphoric acid TS	100	ml
JPH202	Chloral hydrate TS	100	ml
JPH203	Chromium (VI) trioxide TS	100	ml
JPH204	Chromotropic acid TS	100	ml
JPH207	Citric acid TS 0.01 mol/l	100	ml
JPH205	Citric acid-acetic acid TS	100	ml
JPH206	Citric acid-phosphate-acetonitrile TS	100	ml
JPH210	Cobalt (II) chloride TS	100	ml
JPH209	Cobalt (II) chloride-ethanol TS	100	ml
JPH211	Congo red TS	100	ml
JPH212	Copper (II) acetate TS strong	100	ml
JPH213	Copper (II) chloride-acetone TS	100	ml
JPH214	Copper (II) sulfate solution alkaline	1000	ml
JPH215	Copper (II) sulfate TS	100	ml
JPH217	Cresol red TS	100	ml
JPH218	Crystal violet TS	100	ml
JPH219	Cupriethylenediamine TS 1 mol/l	1000	ml
JPH222	Dichlorofluorescein TS	100	ml
JPH223	Dilute bismuth subnitrate-potassium iodide TS for spray	100	ml
JPH231	Diphenylamine TS	100	ml
JPH230	Diphenylamine-acetic acid TS	100	ml
JPH232	Diphenylcarbazone TS	100	ml
JPH236	Disodium dihydrogen ethylenediamine tetraacetate 0.04 mol/l TS	1000	ml
JPH235	Disodium dihydrogen ethylenediamine tetraacetate 0.1 mol/L TS	1000	ml
JPH246	Disodium hydrogen phosphate 0.05 mol/l TS	1000	ml
JPH247	Disodium hydrogen phosphate 0.5 mol/l TS	1000	ml
JPH245	Disodium hydrogen phosphate TS	100	ml
JPH249	Dragendorff's TS (A+B)	100	ml
JPH250	Edetate Disodium TS	1000	ml
JPH251	Eriochrome black T-sodium chloride indicator	100	ml
JPH253	Ethanol dilute	1000	ml
JPH252	Ethanol, aldehyde-free	1000	ml
JPH254	Ethylenediamine TS	100	ml
JPH255	Fehling's TS (A+B)	500+500	ml
JPH256	Fehling's TS for amylolytic activity test (A+B) - 500 ml solution A and 500 ml solution B	500+500	ml
JPH257	Ferric Ammonium Sulfate TS	100	ml
JPH258	Fluorescein sodium TS	100	ml
JPH259	Folin's TS	100	ml

Ref. Number	Description	Volume	Msr
JPH260	Folin's TS dilute	100	ml
JPH260a	Folin's TS dilute	1000	ml
JPH261	Formaldehyde solution TS	100	ml
JPH262	Fuchsin-ethanol TS	100	ml
JPH268.30G	Griess-Romijin's nitric acid reagent	30	g
JPH269	Griess-Romijin's nitrous acid reagent	100	ml
JPH270	Hanus' TS	100	ml
JPH279	Hydrochloric acid 0.001 mol/l TS	1000	ml
JPH280	Hydrochloric acid 0.01 mol/l TS	1000	ml
JPH281	Hydrochloric acid 0.02 mol/l TS	1000	ml
JPH282	Hydrochloric acid 0.05 mol/l TS	1000	ml
JPH283	Hydrochloric acid 0.1 mol/l TS	1000	ml
JPH285	Hydrochloric acid 0.5 mol/l TS	1000	ml
JPH286	Hydrochloric acid 1 mol/l TS	1000	ml
JPH292	Hydrochloric acid 10 mol/l TS	1000	ml
JPH287	Hydrochloric acid 2 mol/l TS	1000	ml
JPH288	Hydrochloric acid 3 mol/l TS	1000	ml
JPH289	Hydrochloric acid 4 mol/l TS	1000	ml
JPH290	Hydrochloric acid 6 mol/l TS	1000	ml
JPH291	Hydrochloric acid 7.5 mol/l TS	1000	ml
JPH278	Hydrochloric acid purified	100	ml
JPH284	Hydrochloric acid TS 0.2 mol/l	1000	ml
JPH272	Hydrochloric acid, dilute	100	ml
JPH272a	Hydrochloric acid, dilute	1000	ml
JPH276	Hydrochloric acid-2-propanol TS	100	ml
JPH273	Hydrochloric acid-ethanol (95) TS	100	ml
JPH274	Hydrochloric acid-methanol 0.01 mol/l TS	100	ml
JPH275	Hydrochloric acid-methanol 0.05 mol/l TS	100	ml
JPH293	Hydrogen hexachloroplatinate (IV) TS	10	ml
JPH296	Hydroxylammonium chloride TS	100	ml
JPH298	Hydroxylammonium chloride-ethanol TS	100	ml
JPH295	Hydroxylammonium chloride-iron (III) chloride TS	100	ml
JPH299	Imidazole TS	100	ml
JPH300	Indigo carmine TS	100	ml
JPH302	Iodine TS	100	ml
JPH304	Iodine TS 0.5 mol/l	100	ml
JPH303	Iodine TS dilute	100	ml
JPH301	Iodine-starch TS	100	ml
JPH314	Iron (II) tartrate TS	100	ml
JPH315	Iron (II) thiocyanate TS	100	ml
JPH309	Iron (III) chloride TS	100	ml
JPH310	Iron (III) chloride TS acidic	100	ml
JPH305	Iron (III) chloride-acetic acid TS	100	ml
JPH306	Iron (III) chloride-iodine TS	100	ml
JPH307	Iron (III) chloride-methanol TS	100	ml
JPH308	Iron (III) chloride-pyridine TS anhydrous	100	ml
JPH311	Iron (III) nitrate TS	100	ml
JPH312	Iron (III) perchlorate-ethanol TS	100	ml

Ref. Number	Description	Volume	Msr
JPH313	Iron (III) sulfate TS	100	ml
JPH313a	Iron (III) sulfate TS	1000	ml
JPH316	Iron-phenol TS	100	ml
JPH317	Isoniazid TS	100	ml
JPH318	Lactic acid TS	100	ml
JPH319	Lead (II) acetate TS	100	ml
JPH320	Lead subacetate TS	100	ml
JPH321	Magnesia TS	100	ml
JPH322	Magnesium sulfate TS	100	ml
JPH216	m-Cresol purple TS	100	ml
JPH323	Mercury (II) acetate TS for nonaqueous titration	100	ml
JPH324	Mercury (II) chloride TS	100	ml
JPH325	Metanil yellow TS	100	ml
JPH326	Methanesulfonic acid TS	100	ml
JPH326a	Methanesulfonic acid TS	500	ml
JPH327	Methanesulfonic acid TS 0.1 mol/L	100	ml
JPH328	Methanol anhydrous	1000	ml
JPH333	Methyl orange TS	100	ml
JPH332	Methyl orange-boric acid TS	100	ml
JPH334	Methyl orange-xylenecyanol FF TS	100	ml
JPH336	Methyl red TS	100	ml
JPH337	Methyl red TS for acid or alkali test	100	ml
JPH335	Methyl red-methylene blue TS	100	ml
JPH340	Methyl yellow TS	100	ml
JPH331	Methylene blue TS	100	ml
JPH329	Methylene blue-potassium perchlorate TS	100	ml
JPH330	Methylene blue-sulfuric acid-sodium dihydrogenphosphate TS	100	ml
JPH338.50G	Methylthymol blue-potassium nitrate indicator	50	g
JPH339.50G	Methylthymol blue-sodium chloride indicator	50	g
JPH341	Molybdenum (III) oxide-citric acid TS	100	ml
JPH345	Murexide-sodium chloride indicator	30	ml
JPH194	N-Bromosuccinimide TS	1000	ml
JPH348	Neutral red TS	100	ml
JPH352	Ninhydrin 0.2% - water saturated 1-butanol TS	100	ml
JPH349	Ninhydrin-acetic acid TS	100	ml
JPH350	Ninhydrin-butanol TS	100	ml
JPH351	Ninhydrin-citric acid-acetic acid TS	100	ml
JPH354	Nitric acid TS 2 mol/L	100	ml
JPH353	Nitric acid, dilute	100	ml
JPH357.50G	NN Indicator	50	g
JPH358	Oxalic acid TS	100	ml
JPH359	Palladium (II) chloride TS	100	ml
JPH360	Perchloric acid-ethanol TS	100	ml
JPH366	Phenol red TS	100	ml
JHP367	Phenol red TS, dilute	100	ml
JPH367	Phenol red TS, dilute	100	ml
JPH362	Phenol-hydrochloric acid TS	30	ml
JPH364	Phenolphthalein TS	100	ml

Ref. Number	Description	Volume	Msr
JPH365	Phenolphthalein TS alkaline	100	ml
JPH363	Phenolphthalein-thymol blue TS (A+B) - 100 ml solution A, 150 ml solution B	250	ml
JPH368	Phenylhydrazinium chloride TS	100	ml
JPH403	Phosphate TS	100	ml
JPH406	Phosphotungstic acid TS	100	ml
JPH347	p-Naphtholbenzein TS	100	ml
JPH407	Potassium acetate TS	100	ml
JPH408	Potassium carbonate-sodium carbonate TS	100	ml
JPH410	Potassium chloride TS acidic	100	ml
JPH411	Potassium chromate TS	100	ml
JPH413	Potassium dichromate TS	100	ml
JPH412	Potassium dichromate-sulfuric acid TS	100	ml
JPH414	Potassium dihydrogen phosphate TS 0.02 mol/l	1000	ml
JPH415	Potassium dihydrogen phosphate TS 0.05 mol/l	1000	ml
JPH421	Potassium dihydrogen phosphate TS 0.1 mol/l	1000	ml
JPH422	Potassium dihydrogen phosphate TS 0.2 mol/l	1000	ml
JPH418	Potassium dihydrogen phosphate TS 0.33 mol/L	1000	ml
JPH424	Potassium hexacyanoferrate (III) TS alkaline	100	ml
JPH425	Potassium hexahydroxoantimonate (V) TS	100	ml
JPH430	Potassium hydrogen phthalate TS for buffer solution 0.2 mol/l	1000	ml
JPH432	Potassium hydroxide TS	100	ml
JPH433	Potassium hydroxide TS 8 mol/l	100	ml
JPH431	Potassium hydroxide-ethanol TS dilute	100	ml
JPH434	Potassium iodide-zinc sulfate TS	100	ml
JPH435	Potassium periodate TS	100	ml
JPH436	Potassium permanganate TS	1000	ml
JPH437	Potassium permanganate TS acidic	100	ml
JPH438	Potassium sulfate TS	100	ml
JPH439	Potassium thiocyanate TS	100	ml
JPH440	Purified water for ammonium limit test	1000	ml
JPH444	Quinoline TS	100	ml
JPH445	Selenious acid-sulfuric acid TS	30	ml
JPH446	Silver chromate-saturated potassium chromate TS	100	ml
JPH448	Silver nitrate TS	100	ml
JPH448a	Silver nitrate TS	1000	ml
JPH447	Silver nitrate-ammonia TS	30	ml
JPH450	Sodium acetate TS	100	ml
JPH449	Sodium acetate-acetone TS	100	ml
JPH451	Sodium carbonate TS	100	ml
JPH452	Sodium carbonate TS 0.55 mol/l	100	ml
JPH453	Sodium chloride TS	100	ml
JPH454	Sodium chloride TS 0.1 mol/l	100	ml
JPH455	Sodium chloride TS 1 mol/L	100	ml
JPH458	Sodium dihydrogen phosphate TS 0.05 mol/l	100	ml
JPH459	Sodium dihydrogen phosphate TS 0.1 mol/l	100	ml
JPH456	Sodium dihydrogen phosphate TS 2 mol/l	100	ml
JPH463	Sodium disulfite TS	100	ml
JPH464	Sodium hydrogen carbonate TS	100	ml

Ref. Number	Description	Volume	Msr
JPH466	Sodium hydroxide TS	100	ml
JPH466a	Sodium hydroxide TS	1000	ml
JPH467	Sodium hydroxide TS 0.05 mol/l	100	ml
JPH468	Sodium hydroxide TS 0.5 mol/l	100	ml
JPH469	Sodium hydroxide TS 2 mol/l	100	ml
JPH470	Sodium hydroxide TS 4 mol/l	100	ml
JPH471	Sodium hydroxide TS 6 mol/L	100	ml
JPH472	Sodium hydroxide TS 8 mol/l S	100	ml
JPH465	Sodium hydroxide-dioxane TS	100	ml
JPH473	Sodium lauryl sulfate TS	100	ml
JPH474	Sodium lauryl sulfate TS 0.2 mol/L	1000	ml
JPH475	Sodium naphthoquinone sulfonate TS	100	ml
JPH476	Sodium periodate TS	100	ml
JPH477	Sodium phosphate TS	100	ml
JPH479	Sodium salicylate-sodium hydroxide TS	100	ml
JPH480	Sodium sulfide TS	100	ml
JPH483	Sodium thiosulfate TS	100	ml
JPH484	Sulfosalicylic acid TS	100	ml
JPH493	Sulfuric acid 0.05 mol/L TS	1000	ml
JPH492	Sulfuric acid TS	100	ml
JPH494	Sulfuric acid TS 0.25 mol/l	1000	ml
JPH495	Sulfuric acid TS 0.5 mol/l	1000	ml
JPH496	Sulfuric acid TS 2 mol/l	1000	ml
JPH485	Sulfuric acid, dilute	1000	ml
JPH486	Sulfuric acid-ethanol TS	100	ml
JPH487	Sulfuric acid-hexane-methanol TS	100	ml
JPH488	Sulfuric acid-methanol TS	100	ml
JPH489	Sulfuric acid-methanol TS 0.05 mol/l	100	ml
JPH490	Sulfuric acid-sodium dihydrogenphosphate TS	100	ml
JPH491	Sulfuric acid-sodium hydroxide TS	100	ml
JPH500	Tetrabutylammonium hydroxide 10% in methanol TS	100	ml
JPH498	Tetrabutylammonium hydroxide TS 0.005 mol/l	100	ml
JPH499	Tetrabutylammonium hydroxide-methanol TS	100	ml
JPH501	Tetrahydroxyquinone indicator	30	ml
JPH503	Tetramethylammonium hydroxide TS	100	ml
JPH502	Tetramethylammonium hydroxide-methanol TS	1000	ml
JPH505	Tetraphenylboron potassium TS	100	ml
JPH506	Thiourea TS	100	ml
JPH508	Thymol blue TS	100	ml
JPH507	Thymol blue-N,N-dimethylformamide TS	100	ml
JPH509	Thymolphthalein TS	100	ml
JPH511	Tin (II) chloride TS, acidic	100	ml
JPH510	Tin (II) chloride-sulfuric acid TS	100	ml
JPH512	Titanium (III) chloride-sulfuric acid TS	100	ml
JPH513	Titanium (IV) oxide TS	100	ml
JPH515	Trichloroacetic acid TS	100	ml
JPH516	Trichloroacetic acid TS for serrapeptase	100	ml
JPH519	Trifluoroacetic acid TS	100	ml

Ref. Number	Description	Volume	Msr
JPH534	Uranyl acetate TS	30	ml
JPH535	Uranyl acetate-zinc TS	100	ml
JPH536	Vanillin-sulfuric acid-ethanol TS	100	ml
JPH538	Zinc chloride TS	100	ml
JPH539.L5	Zinc chloride TS 0.04 mol/L	1000	ml
JPH540	Zinc iodide-starch TS	100	ml
JPH541	Zinc sulfate TS	100	ml
JPH542	Zirconyl-alizarin red S TS	30	ml

Buffer Solutions

Ref. Number	Description	Volume	Msr
JPH355	2,2',2''-Nitrilotriethanol buffer solution pH 7.8	1000	ml
JPH342	3-(N-Morpholino)propanesulfonic acid buffer solution 0.02 mol/l pH 7.0	100	ml
JPH343	3-(N-Morpholino)propanesulfonic acid buffer solution 0.02 mol/l pH 8.0	100	ml
JPH344	3-(N-Morpholino)propanesulfonic acid buffer solution 0.1 mol/l pH 7.0	100	ml
JPH100	Acetate buffer solution 0.01 mol/l pH 5.0	1000	ml
JPH097	Acetate buffer solution pH 3.5	1000	ml
JPH098	Acetate buffer solution pH 4.5	1000	ml
JPH099	Acetate buffer solution pH 5.4	1000	ml
JPH101	Acetate buffer solution pH 5.5	1000	ml
JPH102	Acetic acid-ammonium acetate buffer solution pH 3.0	1000	ml
JPH103	Acetic acid-ammonium acetate buffer solution pH 4.5	1000	ml
JPH104	Acetic acid-ammonium acetate buffer solution pH 4.8	1000	ml
JPH106	Acetic acid-potassium acetate buffer solution pH 4.3	1000	ml
JPH107	Acetic acid-sodium acetate buffer solution 0.05 mol/l pH 4.0	1000	ml
JPH117	Acetic acid-sodium acetate buffer solution 0.05 mol/l pH 4.6	1000	ml
JPH116	Acetic acid-sodium acetate buffer solution 0.1 mol/l pH 4.0	1000	ml
JPH115	Acetic acid-sodium acetate buffer solution 1 mol/l pH 5.0	1000	ml
JPH110	Acetic acid-sodium acetate buffer solution for iron limit test pH 4.5	100	ml
JPH109	Acetic acid-sodium acetate buffer solution pH 4.5	1000	ml
JPH111	Acetic acid-sodium acetate buffer solution pH 4.7	1000	ml
JPH112	Acetic acid-sodium acetate buffer solution pH 5.0	1000	ml
JPH113	Acetic acid-sodium acetate buffer solution pH 5.5	1000	ml
JPH114	Acetic acid-sodium acetate buffer solution pH 5.6	1000	ml
JPH135	Ammonia-ammonium acetate buffer solution pH 8.0	1000	ml
JPH136	Ammonia-ammonium acetate buffer solution pH 8.5	1000	ml
JPH139a	Ammonia-ammonium chloride buffer solution pH 10.7	1000	ml
JPH140	Ammonia-ammonium chloride buffer solution pH 11.0	1000	ml
JPH137	Ammonia-ammonium chloride buffer solution pH 8.0	1000	ml
JPH138a	Ammonia-ammonium chloride buffer solution, pH 10.0	1000	ml
JPH151a	Ammonium chloride buffer solution, pH 10	1000	ml
JPH154	Ammonium formate buffer solution 0.05 mol/l pH 4.0	1000	ml
JPH160	Ammonium sulfate buffer solution	1000	ml
JPH054	Borate pH Standard Solution	200	ml
JPH172	Borate-hydrochloric acid buffer solution pH 9.0	1000	ml
JPH178	Boric acid 0.2 mol/l - potassium chloride 0.2 mol/l TS for buffer solution	1000	ml

Ref. Number	Description	Volume	Msr
JPH173	Boric acid-methanol buffer solution	100	ml
JPH177	Boric acid-potassium chloride-sodium hydroxide buffer solution pH 10.0	1000	ml
JPH174	Boric acid-potassium chloride-sodium hydroxide buffer solution pH 9.0	1000	ml
JPH175	Boric acid-potassium chloride-sodium hydroxide buffer solution pH 9.2	1000	ml
JPH176	Boric acid-potassium chloride-sodium hydroxide buffer solution pH 9.6	1000	ml
JPH193	Bromophenol blue TS pH 7.0	100	ml
JPH198	Carbonate buffer solution 0.1 mol/L pH 9.6	1000	ml
JPH056	Carbonate pH Standard Solution	200	ml
JPH208	Citric acid TS for buffer solution 1 mol/l	1000	ml
JPH234	Dipotassium hydrogen phosphate 1 mol/l TS for buffer solution	1000	ml
JPH233	Dipotassium hydrogen phosphate-citric acid buffer solution pH 5.3	1000	ml
JPH237	Disodium dihydrogen ethylenediamine tetraacetate 0.4 mol/l TS pH 8.5	1000	ml
JPH241	Disodium hydrogen phosphate-citric acid buffer solution 0.05 mol/L pH 6.0	1000	ml
JPH244	Disodium hydrogen phosphate-citric acid buffer solution for penicillium origin b-galactosidase pH 4.5	1000	ml
JPH238	Disodium hydrogen phosphate-citric acid buffer solution pH 3.0	1000	ml
JPH239	Disodium hydrogen phosphate-citric acid buffer solution pH 4.5	1000	ml
JPH240	Disodium hydrogen phosphate-citric acid buffer solution pH 5.4	1000	ml
JPH242	Disodium hydrogen phosphate-citric acid buffer solution pH 6.0	1000	ml
JPH243	Disodium hydrogen phosphate-citric acid buffer solution pH 7.2	1000	ml
JPH263	Gelatin-phosphate buffer solution	100	ml
JPH264	Gelatin-phosphate buffer solution pH 7.0	100	ml
JPH265	Gelatin-phosphate buffer solution, pH 7.4	100	ml
JPH265a	Gelatin-phosphate buffer solution, pH 7.4	1000	ml
JPH266	Gelatin-tris buffer solution	100	ml
JPH267	Gelatin-tris buffer solution pH 8.0	100	ml
JPH271	Hydrochloric acid-ammonium acetate buffer solution pH 3.5	1000	ml
JPH277	Hydrochloric acid-potassium chloride buffer solution pH 2.0	1000	ml
JPH297	Hydroxylammonium chloride TS pH 3.1	100	ml
JPH057	Oxalate pH Standard Solution	200	ml
JPH058	pH Standard Solution, Borate	200	ml
JPH060	pH Standard Solution, Carbonate	200	ml
JPH062	pH Standard Solution, Phosphate	200	ml
JPH063	pH Standard Solution, Phthalate	200	ml
JPH385	Phosphate buffer solution 0.01 mol/L pH 6.8	1000	ml
JPH372	Phosphate buffer solution 0.02 mol/l pH 3.0	1000	ml
JPH375	Phosphate buffer solution 0.02 mol/l pH 3.5	1000	ml
JPH395a	Phosphate buffer solution 0.02 mol/L pH 8.0	1000	ml
JPH392	Phosphate buffer solution 0.03 mol/L pH 7.5	1000	ml
JPH374	Phosphate buffer solution 0.05 mol/L pH 3.5	1000	ml
JPH381	Phosphate buffer solution 0.05 mol/l pH 6.0	1000	ml
JPH388	Phosphate buffer solution 0.05 mol/L pH 7.0	1000	ml
JPH376	Phosphate buffer solution 0.1 mol/l pH 4.5	1000	ml
JPH377	Phosphate buffer solution 0.1 mol/L pH 5.3	1000	ml
JPH386	Phosphate buffer solution 0.1 mol/L pH 6.8	1000	ml
JPH389	Phosphate buffer solution 0.1 mol/L pH 7.0	1000	ml
JPH396	Phosphate buffer solution 0.1 mol/l pH 8.0	1000	ml
JPH397	Phosphate buffer solution 0.2 mol/l pH 10.5	1000	ml

Ref. Number	Description	Volume	Msr
JPH378	Phosphate buffer solution 1/15 mol/L pH 5.6	1000	ml
JPH394	Phosphate buffer solution for antibiotics 0.1 mol/L pH 8.0	1000	ml
JPH399	Phosphate buffer solution for antibiotics pH 6.5	1000	ml
JPH369	Phosphate buffer solution for component determination of bupleurum root	1000	ml
JPH370	Phosphate buffer solution for pancreatin	100	ml
JPH400	Phosphate buffer solution for processed aconite root	1000	ml
JPH398	Phosphate buffer solution pH 12	1000	ml
JPH371	Phosphate buffer solution pH 3.0	1000	ml
JPH373	Phosphate buffer solution pH 3.1	1000	ml
JPH379	Phosphate buffer solution pH 5.9	1000	ml
JPH380	Phosphate buffer solution pH 6.0	1000	ml
JPH382	Phosphate buffer solution pH 6.2	1000	ml
JPH383	Phosphate buffer solution pH 6.5	1000	ml
JPH384	Phosphate buffer solution pH 6.8	1000	ml
JPH387	Phosphate buffer solution pH 7.0	1000	ml
JPH390	Phosphate buffer solution pH 7.2	1000	ml
JPH391	Phosphate buffer solution pH 7.4	1000	ml
JPH393	Phosphate buffer solution pH 8.0	1000	ml
JPH402	Phosphate buffer-sodium chloride TS 0.01 mol/L pH 7.4	1000	ml
JPH064	Phosphate pH Standard Solution	200	ml
JPH401	Phosphate-buffered sodium chloride TS	1000	ml
JPH405	Phosphoric acid-acetic acid-boric acid buffer solution pH 2.0	1000	ml
JPH404	Phosphoric acid-sodium sulfate buffer solution pH 2.3	1000	ml
JPH065	Phthalate pH Standard Solution	200	ml
JPH409	Potassium chloride-hydrochloric acid buffer solution	1000	ml
JPH419	Potassium dihydrogen phosphate 0.05 mol/l pH 3.0	100	ml
JPH420	Potassium dihydrogen phosphate TS 0.05 mol/l pH 4.7	1000	ml
JPH416	Potassium dihydrogen phosphate TS 0.1 mol/L pH 2.0	1000	ml
JPH417	Potassium dihydrogen phosphate TS 0.25 mol/L pH 3.5	100	ml
JPH423	Potassium dihydrogen phosphate TS for buffer solution 0.2 mol/l	1000	ml
JPH428	Potassium hydrogen phthalate buffer solution 0.3 mol/l pH 4.6	1000	ml
JPH426	Potassium hydrogen phthalate buffer solution pH 3.5	1000	ml
JPH427	Potassium hydrogen phthalate buffer solution pH 4.6	1000	ml
JPH429	Potassium hydrogen phthalate buffer solution pH 5.6	1000	ml
JPH443	Pyrophosphate buffer solution 0.05 mol/l pH 9.0	100	ml
JPH442	Pyrophosphate buffer solution pH 9.0	100	ml
JPH460	Sodium dihydrogen phosphate TS 0.05 mol/l pH 2.6	100	ml
JPH461	Sodium dihydrogen phosphate TS 0.05 mol/l pH 3.0	100	ml
JPH462	Sodium dihydrogen phosphate TS 0.1 mol/l pH 3.0	100	ml
JPH457	Sodium dihydrogen phosphate TS pH 2.5	100	ml
JPH478	Sodium phosphate buffer solution 0.1 mol/L pH 7.0	1000	ml
JPH482	Sodium tetraborate-calcium chloride buffer solution pH 8.0	1000	ml
JPH497	Tartrate buffer solution pH 3.0	1000	ml
JPH504	Tetramethylammonium hydroxide TS pH 5.5	1000	ml
JPH514	Trichloroacetic acid-gelatin-tris buffer solution	100	ml
JPH517	Triethylamine buffer solution pH 3.2	1000	ml
JPH518	Triethylamine-phosphate buffer solution pH 5.0	1000	ml
JPH525	Tris buffer solution 0.05 mol/l pH 7.0	1000	ml

Ref. Number	Description	Volume	Msr
JPH529	Tris buffer solution 0.05 mol/L pH 8.6	1000	ml
JPH526	Tris buffer solution 0.1 mol/l pH 8.0	1000	ml
JPH523	Tris buffer solution 0.5 mol/L pH 6.8	1000	ml
JPH524	Tris buffer solution pH 7.0	1000	ml
JPH527	Tris buffer solution pH 8.2	1000	ml
JPH528	Tris buffer solution pH 8.4	1000	ml
JPH530	Tris buffer solution pH 8.8	1000	ml
JPH531	Tris buffer solution pH 9.5	1000	ml
JPH522	Tris-acetic acid buffer solution pH 6.5	1000	ml
JPH533	Tris-hydrochloride buffer solution 0.05 mol/L pH 7.5	1000	ml
JPH532	Tris-hydrochloride buffer solution 0.2 mol/L pH 7.4	1000	ml
JPH537	Zinc acetate buffer solution 0.25 mol/L pH 6.4	1000	ml

U.S.

PHARMACOPOEIA

PRODUCTS

Reagents, Indicators, and Solutions

This section deals with the solutions required in conducting the Pharmacopeial and the National Formulary tests and assays. Reagents are substances used either as such or as constituents of solutions. Indicators are reagents used to determine the specified end-point in a chemical reaction, to measure hydrogen-ion concentration (pH), or to indicate that a desired change in pH has been effected. They are listed together with indicator test papers. Buffer Solutions are referred to separately. Colorimetric Solutions, abbreviated CS, are solutions used in the preparation of colorimetric standards for comparison purposes. Test Solutions, abbreviated TS, are solutions of reagents in such solvents and of such definite concentrations as to be suitable for the specified purposes. Volumetric Solutions, abbreviated VS and known also as Standard Solutions, are solutions of reagents of known concentration intended primarily for use in quantitative determinations. Concentrations are usually expressed in terms of normality. Water - Purified Water (USP monograph) is always used. Carbon dioxide-free water is purified water that has been boiled vigorously for 5 minutes or more and allowed to cool while protected from absorption of carbon dioxide from the atmosphere, or Purified Water that has a resistivity of not less than 18 Mohm-cm. Deaerated water, for purposes other than dissolution and drug release testing, is Purified Water that has been treated to reduce the content of dissolved air by suitable means, such as by boiling vigorously for 5 minutes and cooling or by the application of ultrasonic vibration.

Solutions acc. to Reagent Specifications

Ref. Number	Description	Volume	Msr
USP350	Acetic Acid, Diluted	1000	ml
USP351.L1	Alcohol (70 percent)	100	ml
USP352.L1	Alcohol (80 percent)	100	ml
USP353.L1	Alcohol (90 percent)	100	ml
USP355	Alcohol, Aldehyde-free	1000	ml
USP356	Ammonium Hydroxide, 6 N	1000	ml
USP362	Hydrochloric Acid, Diluted (10 percent)	1000	ml
USP354.L3	Kit of alcoholic solutions (70%, 80%, 90%)	100+100+100	ml
USP363.1L	Methanol, Aldehyde-Free	1000	ml
USP364	Nitric Acid, Diluted (10 percent)	1000	ml
USP366.L5	Potassium Iodate solution 0.25N	500	ml
USP367	Sulfuric Acid, Diluted (10 percent)	1000	ml

Indicator & Test Papers

Indicator and test papers are strips of paper of suitable dimension and grade impregnated with an indicator or a reagent that is sufficiently stable to provide a convenient form of the impregnated substance.

Ref. Number	Description	Volume	Msr
USP068	Cupric Sulfate Test Paper	1	pack of 50
USP069	Lead Acetate Test Paper	1	pack of 50
USP422	Litmus Paper Blue	1	pack of 50
USP423	Litmus Paper Red	1	pack of 50
USP070	Mercuric Bromide Test Paper	1	pack of 50
USP071	Methyl Yellow Paper	1	pack of 50
USP072	Phenolphthalein Paper	1	pack of 50
USP073	Starch Iodate Paper	1	pack of 50
USP074	Starch Iodide Paper	1	pack of 50
USP075	Thiazole Yellow Paper	1	pack of 50

Test Solutions (TS)

Certain of the following test solutions are intended for use as acid-base indicators in volumetric analyses. Similar solutions are intended for use in pH measurement. Where it is directed that a volumetric solution be used as the test solution, standardization of the solution used as TS is not required.

Ref. Number	Description	Volume	Msr
USP264	2-Naphthol TS (Betanaphthol TS)	100	ml
USP255	3-Methyl-2-benzothiazolinone Hydrazone Hydrochloride TS	100	ml
USP228	8-Hydroxyquinoline TS	100	ml
USP140	Acetate Buffer TS	1000	ml
USP487	Acetic Acid 0.008M TS	1000	ml
USP488	Acetic Acid 0.3N TS	1000	ml
USP485	Acetic Acid 1M TS	1000	ml
USP486	Acetic Acid 2M TS	1000	ml
USP424	Acetic Acid, Strong, TS	1000	ml
USP141	Acetic Acid-Ammonium Acetate Buffer TS	1000	ml
USP142	Acetone, Buffered, TS	1000	ml
USP143	Acid Ferric Chloride TS	100	ml
USP146	Alcohol-Phenol TS	100	ml
USP206	Alkaline Tartrate Solution (B)	500	ml
USP156	Amaranth TS	100	ml
USP159	Ammonia TS	1000	ml
USP159a	Ammonia TS	500	ml
USP425	Ammonia TS 2	1000	ml
USP157	Ammonia-Ammonium Chloride Buffer TS	1000	ml
USP160	Ammoniacal Potassium Ferricyanide TS	500	ml
USP160a	Ammoniacal Potassium Ferricyanide TS	100	ml
USP158	Ammonia-Cyanide TS	100	ml

Ref. Number	Description	Volume	Msr
USP162	Ammonium Acetate TS	100	ml
USP162a	Ammonium Acetate TS	1000	ml
USP163	Ammonium Carbonate TS	100	ml
USP163a	Ammonium Carbonate TS	500	ml
USP426	Ammonium Carbonate TS2	100	ml
USP164	Ammonium Chloride TS	100	ml
USP164a	Ammonium Chloride TS	1000	ml
USP165	Ammonium Chloride-Ammonium Hydroxide TS	100	ml
USP165a	Ammonium Chloride-Ammonium Hydroxide TS	500	ml
USP454	Ammonium Hydroxide 1M TS	1000	ml
USP455	Ammonium Hydroxide 2M TS	1000	ml
USP166	Ammonium Molybdate TS	100	ml
USP166a	Ammonium Molybdate TS	500	ml
USP167	Ammonium Oxalate TS	100	ml
USP167a	Ammonium Oxalate TS	1000	ml
USP168	Ammonium Phosphate, Dibasic, TS (Ammonium Phosphate TS)	100	ml
USP168a	Ammonium Phosphate, Dibasic, TS (Ammonium Phosphate TS)	500	ml
USP169	Ammonium Thiocyanate TS	100	ml
USP169a	Ammonium Thiocyanate TS	1000	ml
USP170	Ammonium Vanadate TS	500	ml
USP170a	Ammonium Vanadate TS	1000	ml
USP171	Antimony Trichloride TS	100	ml
USP427	Ascorbic Acid 10% TS	100	ml
USP172	Barium Chloride TS	100	ml
USP172a	Barium Chloride TS	1000	ml
USP173	Barium Nitrate TS	100	ml
USP173a	Barium Nitrate TS	500	ml
USP174	Biuret Reagent TS	1000	ml
USP175	Blue Tetrazolium TS	100	ml
USP176	Brilliant Blue G TS	100	ml
USP177	Bromine TS	100	ml
USP178	Bromine-Sodium Acetate TS	100	ml
USP178a	Bromine-Sodium Acetate TS	500	ml
USP180	Bromocresol Green TS	100	ml
USP181	Bromocresol Green-Methyl Red TS	100	ml
USP182	Bromocresol Purple TS	100	ml
USP182a	Bromocresol Purple TS	500	ml
USP183	Bromophenol Blue TS	100	ml
USP184	Bromothymol Blue TS	100	ml
USP186	Calcium Chloride TS	100	ml
USP186a	Calcium Chloride TS	500	ml
USP188	Chloral Hydrate TS	100	ml
USP189	Chromotropic Acid TS	100	ml
USP500	Citric Acid TS	100	ml
USP191	Cobaltous Chloride TS	100	ml
USP191a	Cobaltous Chloride TS	500	ml
USP190	Cobalt-Uranyl Acetate TS	100	ml
USP192	Congo Red TS	100	ml

Ref. Number	Description	Volume	Msr
USP205	Copper Solution (A)	500	ml
USP194	Cresol Red TS	100	ml
USP194a	Cresol Red TS	250	ml
USP195	Cresol Red-Thymol Blue TS	100	ml
USP196	Crystal Violet TS	100	ml
USP197	Cupric Acetate TS	100	ml
USP198	Cupric Acetate TS, Stronger (Barfoed's Reagent)	100	ml
USP198a	Cupric Acetate TS, Stronger (Barfoed's Reagent)	500	ml
USP199	Cupric Citrate TS	100	ml
USP199a	Cupric Citrate TS	1000	ml
USP200	Cupric Citrate TS, Alkaline	100	ml
USP200a	Cupric Citrate TS, Alkaline	1000	ml
USP201	Cupric Iodide TS, Alkaline	100	ml
USP201a	Cupric Iodide TS, Alkaline	1000	ml
USP202	Cupric Oxide, Ammoniated, TS (Schweitzer's Reagent)	100	ml
USP203	Cupric Sulfate TS	100	ml
USP203a	Cupric Sulfate TS	500	ml
USP204	Cupric Tartrate Alkaline Solution (Fehling's Solution) (A+B)	1000	ml
USP468	Dibasic Potassium Phosphate 0.2M TS	1000	ml
USP210	Dichlorofluorescein TS	100	ml
USP212	Dinitrophenylhydrazine TS	100	ml
USP213	Diphenylamine TS	100	ml
USP213a	Diphenylamine TS	500	ml
USP214	Diphenylcarbazone TS	100	ml
USP215	Dragendorff's TS (A+B)	100	ml
USP456	Edetate Disodium 0.01M TS	1000	ml
USP216a	Edetate Disodium TS	1000	ml
USP217	Eosin Y TS	100	ml
USP218	Eriochrome Black TS	100	ml
USP219	Eriochrome Cyanine TS	100	ml
USP221	Ferric Ammonium Sulfate TS	100	ml
USP221a	Ferric Ammonium Sulfate TS	1000	ml
USP222	Ferric Chloride TS	100	ml
USP222a	Ferric Chloride TS	1000	ml
USP223	Ferroun TS	100	ml
USP224	Folin-Ciocalteu Phenol TS	100	ml
USP224a	Folin-Ciocalteu Phenol TS	1000	ml
USP225	Formaldehyde TS	100	ml
USP226	Glycerin Base TS	100	ml
USP428	Hydrochloric Acid TS 0.001N	1000	ml
USP457	Hydrochloric Acid TS 0.01N	1000	ml
USP458	Hydrochloric Acid TS 0.025N	1000	ml
USP459	Hydrochloric Acid TS 0.05N	1000	ml
USP429	Hydrochloric Acid TS 0.06N	1000	ml
USP489	Hydrochloric Acid TS 0.08N	1000	ml
USP490	Hydrochloric Acid TS 0.125N	1000	ml
USP430	Hydrochloric Acid TS 0.36N	1000	ml
USP431	Hydrochloric Acid TS 2N	1000	ml

Ref. Number	Description	Volume	Msr
USP432	Hydrochloric Acid TS 3N	1000	ml
USP433	Hydrochloric Acid TS 6N	1000	ml
USP227	Hydroxylamine Hydrochloride TS	100	ml
USP229	Indigo Carmine TS	100	ml
USP232.L1	Iodine and Potassium Iodide TS 1	100	ml
USP511	Iodine and Potassium Iodide TS 3	100	ml
USP231	Iodine, Diluted TS	1000	ml
USP233	Iodobromide TS	100	ml
USP233a	Iodobromide TS	500	ml
USP234.1L	Iodochloride TS	1000	ml
USP235.L1	Iron Salicylate TS	100	ml
USP235.L5	Iron Salicylate TS	500	ml
USP434	Lanthanum Nitrate TS	100	ml
USP484.10G	Lead acetate cotton	10	g
USP236	Lead Acetate TS	100	ml
USP237	Lead Acetate TS, Alcoholic	100	ml
USP237a	Lead Acetate TS, Alcoholic	500	ml
USP435	Lead Nitrate Stock Solution TS	100	ml
USP238.L1	Lead Subacetate TS	100	ml
USP239	Lead Subacetate TS, Diluted	100	ml
USP240.L25	Litmus TS	250	ml
USP241	Magnesia Mixture TS	100	ml
USP242.L1	Magnesium Sulfate TS	100	ml
USP243	Malachite Green TS	100	ml
USP193	m-Cresol Purple TS	100	ml
USP245	Mercuric Acetate TS	100	ml
USP247	Mercuric Bromide TS, Alcoholic	100	ml
USP248	Mercuric Chloride TS	100	ml
USP248a	Mercuric Chloride TS	500	ml
USP249	Mercuric Iodide TS (Valser's Reagent)	100	ml
USP250	Mercuric Nitrate TS	100	ml
USP253	Mercuric Sulfate TS (Deniges' Reagent)	100	ml
USP253a	Mercuric Sulfate TS (Deniges' Reagent)	500	ml
USP246	Mercuric-Ammonium Thiocyanate TS	500	ml
USP246a	Mercuric-Ammonium Thiocyanate TS	1000	ml
USP251	Mercuric-Potassium Iodide TS (Mayer's Reagent)	100	ml
USP252	Mercuric-Potassium Iodide TS, Alkaline (Nessler's Reagent)	500	ml
USP252a	Mercuric-Potassium Iodide TS, Alkaline (Nessler's Reagent)	1000	ml
USP254	Mercurous Nitrate TS	100	ml
USP256	Methyl Orange TS	100	ml
USP257	Methyl Red TS	100	ml
USP259	Methyl Yellow TS	100	ml
USP260	Methyl Yellow-Methylene Blue TS	100	ml
USP261	Methylene Blue TS	100	ml
USP262	Methylthionine Perchlorate TS	100	ml
USP262a	Methylthionine Perchlorate TS	500	ml
USP263	Molybdo-phosphotungstate TS	100	ml
USP467	Monobasic Potassium Phosphate 0.02M TS	1000	ml

Ref. Number	Description	Volume	Msr
USP266	N-(1-Naphthyl)ethylenediamine Dihydrochloride TS	100	ml
USP268	Neutral Red TS	100	ml
USP269	Nickel Standard Solution TS (100 times concentrated)	100	ml
USP368	Nitric Acid 0.01N TS	1000	ml
USP369	Nitric Acid 0.2N TS	1000	ml
USP370	Nitric Acid 1N TS	1000	ml
USP371	Nitric Acid 2N TS	1000	ml
USP358	Oracet Blue B TS (acc to old USP)	100	ml
USP271	Orthophenanthroline TS	100	ml
USP272	Oxalic Acid TS	500	ml
USP272a	Oxalic Acid TS	1000	ml
USP273	Palladium Chloride TS, Buffered	100	ml
USP274	Perchloric Acid TS	100	ml
USP274a	Perchloric Acid TS	500	ml
USP275	Phenol Red TS	100	ml
USP275a	Phenol Red TS	500	ml
USP276	Phenol Red TS pH 4.7	100	ml
USP276a	Phenol Red TS pH 4.7	500	ml
USP277	Phenoldisulfonic Acid TS	100	ml
USP278	Phenolphthalein TS	100	ml
USP279	Phenylhydrazine Acetate TS	100	ml
USP279a	Phenylhydrazine Acetate TS	500	ml
USP280	Phenylhydrazine-Sulfuric Acid TS	100	ml
USP280a	Phenylhydrazine-Sulfuric Acid TS	500	ml
USP281	Phloroglucinol TS	20	ml
USP282	Phosphomolybdic Acid TS	100	ml
USP282a	Phosphomolybdic Acid TS	500	ml
USP493	Phosphoric Acid 0.02M TS	1000	ml
USP436	Phosphoric Acid 10% TS	100	ml
USP505	Phosphoric Acid 1M TS	1000	ml
USP463	Phosphoric Acid 20% TS	1000	ml
USP460	Phosphoric Acid TS 0.05M	1000	ml
USP461	Phosphoric Acid TS 0.06M	1000	ml
USP491	Phosphoric Acid TS 0.75M	1000	ml
USP492	Phosphoric Acid TS 1.5M	1000	ml
USP462	Phosphoric Acid TS 1N	1000	ml
USP283	Phosphotungstic Acid TS	100	ml
USP265	p-Naphtholbenzein TS	100	ml
USP270	p-Nitroaniline TS	100	ml
USP270a	p-Nitroaniline TS	500	ml
USP286	Potassium Acetate TS	100	ml
USP286a	Potassium Acetate TS	500	ml
USP288	Potassium Carbonate TS	100	ml
USP288a	Potassium Carbonate TS	500	ml
USP289	Potassium Chromate TS	100	ml
USP290	Potassium Dichromate TS	100	ml
USP290a	Potassium Dichromate TS	500	ml
USP464	Potassium Hydroxide 1.8N TS	1000	ml

Ref. Number	Description	Volume	Msr
USP465	Potassium Hydroxide 2N TS	1000	ml
USP466	Potassium Hydroxide 45% TS	100	ml
USP291	Potassium Hydroxide TS	100	ml
USP292	Potassium Hydroxide TS 0.5N, Alcoholic	100	ml
USP294	Potassium Iodide 20% TS	100	ml
USP294a	Potassium Iodide 20% TS	500	ml
USP295	Potassium Iodide and Starch TS	100	ml
USP296	Potassium Iodoplatinate TS	100	ml
USP299	Potassium Pyroantimonate TS	100	ml
USP300	Potassium Sulfate TS	100	ml
USP300a	Potassium Sulfate TS	500	ml
USP301	Potassium Thiocyanate TS	100	ml
USP301a	Potassium Thiocyanate TS	500	ml
USP287	Potassium-Bismuth Iodide TS	500	ml
USP347	p-Toluenesulfonic Acid TS	100	ml
USP302	Quinaldine Red TS	100	ml
USP303	Resorcinol TS	100	ml
USP304	Ruthenium Red TS	100	ml
USP306	Silver-Ammonia-Nitrate TS	30	ml
USP310	Sodium Acetate TS	100	ml
USP311	Sodium Alizarinsulfonate TS	100	ml
USP312	Sodium Aminoacetate TS (Sodium Glycinate TS)	500	ml
USP312a	Sodium Aminoacetate TS (Sodium Glycinate TS)	1000	ml
USP313	Sodium Carbonate TS	100	ml
USP313a	Sodium Carbonate TS	1000	ml
USP314	Sodium Chloride TS, Alkaline	100	ml
USP315	Sodium Citrate TS	250	ml
USP316	Sodium Citrate TS, Alkaline	250	ml
USP318	Sodium Fluoride TS	100	ml
USP469	Sodium Hydroxide 0.0025N TS	1000	ml
USP470	Sodium Hydroxide 0.02N TS	1000	ml
USP471	Sodium Hydroxide 0.2N TS	1000	ml
USP475	Sodium Hydroxide 10N TS	1000	ml
USP473	Sodium Hydroxide 2.5N TS	1000	ml
USP472	Sodium Hydroxide 2N TS	1000	ml
USP474	Sodium Hydroxide 5N TS	1000	ml
USP319	Sodium Hydroxide TS	100	ml
USP319a	Sodium Hydroxide TS	1000	ml
USP320	Sodium Iodohydroxyquinolinesulfonate TS	250	ml
USP322	Sodium Phosphotungstate TS	100	ml
USP323	Sodium Tartrate TS	100	ml
USP323a	Sodium Tartrate TS	500	ml
USP324	Sodium Tetraphenylboron TS	100	ml
USP503	Sodium Tetraphenylboron TS	200	ml
USP329	Stannous Chloride, Acid, Stronger, TS	100	ml
USP328	Stannous Chloride, Acid, TS	100	ml
USP330	Starch Iodide Paste TS	100	ml
USP331	Starch TS	100	ml

Ref. Number	Description	Volume	Msr
USP333.L05	Sudan III TS	100	ml
USP334	Sudan IV TS	100	ml
USP335	Sulfanilic Acid TS	100	ml
USP335a	Sulfanilic Acid TS	500	ml
USP337	Sulfanilic-1-Naphthylamine TS	100	ml
USP338	Sulfomolybdic Acid TS	100	ml
USP338a	Sulfomolybdic Acid TS	500	ml
USP477	Sulfuric Acid 0.02N TS	1000	ml
USP478	Sulfuric Acid 0.2N TS	1000	ml
USP479	Sulfuric Acid 0.5N TS	1000	ml
USP476	Sulfuric Acid 1M TS	1000	ml
USP480	Sulfuric Acid 2N TS	1000	ml
USP481	Sulfuric Acid 6N TS	1000	ml
USP482	Sulfuric Acid 7N TS	1000	ml
USP339	Sulfuric Acid TS	100	ml
USP340	Tetramethylammonium Hydroxide TS	100	ml
USP341	Thioacetamide TS	100	ml
USP343	Thymol Blue TS	100	ml
USP344	Thymolphthalein TS	100	ml
USP345	Titanium Trichloride TS	100	ml
USP346	Titanium Trichloride-Sulfuric Acid TS	100	ml
USP494	Trifluoroacetic Acid 0.1% TS	1000	ml
USP348	Trinitrophenol TS (Picric Acid TS)	100	ml
USP349	Triphenyltetrazolium Chloride TS	100	ml
USP349a	Triphenyltetrazolium Chloride TS	500	ml
USP442.50G	Xylenol orange triturate	50	g
USP437	Xylenol Orange TS	100	ml
USP357	Zinc Uranyl Acetate TS	100	ml

Limit Test

Ref. Number	Description	Volume	Msr
USP421	Acetic Acid (6 N Acetic Acid)	1000	ml
USP407	Aluminium standard for limit test (1 ug/ml)	100	ml
USP400	Ammonium citrate solution	100	ml
USP411	Ammonium thiocyanate solution - 300 g/l (Iron limit test)	100	ml
USP401	Diluted standard lead solution (Lead limit test)	100	ml
USP402	Dithizone extraction solution	100	ml
USP412	Dithizone stock solution - 40 mg/l in chloroform (Mercury limit test)	1000	ml
USP413	Dithizone titrant - 12 mg/l in chloroform (Mercury limit test)	1000	ml
USP403	Hydroxylamine hydrochloride solution	100	ml
USP415	Mercury solution for standardizing dithizone titrant - 20 ug/ml (Mercury limit test)	100	ml
USP414	Mercury stock solution (Mercury limit test)	100	ml
USP409	N,N-dimethylaniline 1000 mg/l in diluted hydrochloric acid - Standard Solution (Limit test for Dimethylaniline)	5	ml
USP408	Naphthalene 50ug/ml in cyclohexane - Internal Standard Solution (Limit test for Dimethylaniline)	10	ml
USP406	Nitric Acid Diluent	100	ml
USP404	Potassium cyanide solution	100	ml
USP416	Potassium Permanganate Solution	100	ml
USP416.1L	Potassium Permanganate Solution	1000	ml
USP418	Selenium Standard Solution (Selenium limit test)	100	ml
USP417	Selenium Stock Solution - 1 ug/ml (Selenium limit test)	100	ml
USP405	Standard dithizone solution	500	ml
USP410	Standard Iron solution (10 ug/ml)	100	ml
USP420	Trichloroacetic acid solution (100 g/l)	1000	ml
USP419	Zinc standard solution (Zinc limit test)	100	ml

General tests for Reagents

The following solutions are provided to help for the examination of reagents to determine their compliance with the specifications of the individual reagents.

Ref. Number	Description	Volume	Msr
USP076	Arsenic Trioxide Stock Solution	100	ml
USP084	Brucine Sulfate Solution	100	ml
USP082	Lead Nitrate Stock Solution TS	100	ml
USP086	Phosphate Reagent A	100	ml
USP506	Sodium periodate solution	1000	ml
USP078	Standard Calcium Solution	100	ml
USP077	Standard Chloride Solution	100	ml
USP083	Standard Nitrate Solution	100	ml
USP085	Standard Phosphate Solution	100	ml
USP079	Standard Potassium Solution	100	ml
USP080	Standard Sodium Solution	100	ml
USP081	Standard Strontium Solution	100	ml
USP087	Standard Sulphate Solution	100	ml

Buffer Solutions

The successful completion of many Pharmacopeial tests and assays requires adjustment to or maintenance solutions. In pH measurements, standard buffer solutions are required for reference purposes. A solution is said to be buffered if it resists changes in the activity of an ion on the addition of substances that ion. Buffers are substances or combinations of substances that impart this resistance to a solution. Buffered equilibrium with substances capable of removing or releasing the ion. Buffer capacity refers to the amount of material that may be added to a solution without causing a significant ratio of acid or base added (in gram-equivalents per liter) to the change in pH (in pH units). The capacity of a conditions of use, usually by adjustment of the concentrations of buffer substances. Buffers are used to establish and maintain an ion activity within narrow limits. The most common systems are for the calibration of pH meters, (b) in the preparation of dosage forms that approach isotonicity, (c) in analytical stability of various dosage forms.

Ref. Number	Description	Volume	Msr
USP064	Acetate Buffer pH 3.5 for Heavy metals	1000	ml
USP054	Acetate Buffer pH 4.1	1000	ml
USP055	Acetate Buffer pH 4.3	1000	ml
USP056	Acetate Buffer pH 4.5	1000	ml
USP057	Acetate Buffer pH 4.7	1000	ml
USP058	Acetate Buffer pH 4.9	1000	ml
USP059	Acetate Buffer pH 5.1	1000	ml
USP060	Acetate Buffer pH 5.2	1000	ml
USP061	Acetate Buffer pH 5.3	1000	ml
USP062	Acetate Buffer pH 5.4	1000	ml
USP063	Acetate Buffer pH 5.5	1000	ml
USP012	Acid Phthalate Buffer pH 2.2	1000	ml
USP013	Acid Phthalate Buffer pH 2.4	1000	ml
USP014	Acid Phthalate Buffer pH 2.6	1000	ml
USP015	Acid Phthalate Buffer pH 2.8	1000	ml
USP016	Acid Phthalate Buffer pH 3.0	1000	ml
USP017	Acid Phthalate Buffer pH 3.2	1000	ml
USP018	Acid Phthalate Buffer pH 3.4	1000	ml
USP019	Acid Phthalate Buffer pH 3.6	1000	ml
USP020	Acid Phthalate Buffer pH 3.8	1000	ml
USP021	Acid Phthalate Buffer pH 4.0	1000	ml
USP053	Alkaline Borate Buffer pH 10.0	1000	ml
USP043	Alkaline Borate Buffer pH 8.0	1000	ml
USP044	Alkaline Borate Buffer pH 8.2	1000	ml
USP045	Alkaline Borate Buffer pH 8.4	1000	ml
USP046	Alkaline Borate Buffer pH 8.6	1000	ml
USP047	Alkaline Borate Buffer pH 8.8	1000	ml
USP048	Alkaline Borate Buffer pH 9.0	1000	ml
USP049	Alkaline Borate Buffer pH 9.2	1000	ml
USP050	Alkaline Borate Buffer pH 9.4	1000	ml

Ref. Number	Description	Volume	Msr
USP051	Alkaline Borate Buffer pH 9.6	1000	ml
USP052	Alkaline Borate Buffer pH 9.8	1000	ml
USP001	Hydrochloric Acid Buffer pH 1.2	1000	ml
USP002	Hydrochloric Acid Buffer pH 1.3	1000	ml
USP003	Hydrochloric Acid Buffer pH 1.4	1000	ml
USP004	Hydrochloric Acid Buffer pH 1.5	1000	ml
USP005	Hydrochloric Acid Buffer pH 1.6	1000	ml
USP006	Hydrochloric Acid Buffer pH 1.7	1000	ml
USP007	Hydrochloric Acid Buffer pH 1.8	1000	ml
USP008	Hydrochloric Acid Buffer pH 1.9	1000	ml
USP009	Hydrochloric Acid Buffer pH 2.0	1000	ml
USP010	Hydrochloric Acid Buffer pH 2.1	1000	ml
USP011	Hydrochloric Acid Buffer pH 2.2	1000	ml
USP022	Neutralized Phthalate Buffer pH 4.2	1000	ml
USP023	Neutralized Phthalate Buffer pH 4.4	1000	ml
USP024	Neutralized Phthalate Buffer pH 4.6	1000	ml
USP025	Neutralized Phthalate Buffer pH 4.8	1000	ml
USP026	Neutralized Phthalate Buffer pH 5.0	1000	ml
USP027	Neutralized Phthalate Buffer pH 5.2	1000	ml
USP028	Neutralized Phthalate Buffer pH 5.4	1000	ml
USP029	Neutralized Phthalate Buffer pH 5.6	1000	ml
USP030	Neutralized Phthalate Buffer pH 5.8	1000	ml
USP031	Phosphate Buffer pH 5.8	1000	ml
USP032	Phosphate Buffer pH 6.0	1000	ml
USP033	Phosphate Buffer pH 6.2	1000	ml
USP034	Phosphate Buffer pH 6.4	1000	ml
USP035	Phosphate Buffer pH 6.6	1000	ml
USP036	Phosphate Buffer pH 6.8	1000	ml
USP037	Phosphate Buffer pH 7.0	1000	ml
USP038	Phosphate Buffer pH 7.2	1000	ml
USP039	Phosphate Buffer pH 7.4	1000	ml
USP040	Phosphate Buffer pH 7.6	1000	ml
USP041	Phosphate Buffer pH 7.8	1000	ml
USP042	Phosphate Buffer pH 8.0	1000	ml

Colorimetric Solutions (CS) USP

These solutions are used in the preparation of the colorimetric standards for certain drugs, and for the carbonization tests with sulfuric acid that are specified in several monographs. Comparison of colors as directed in the Pharmacopeial tests preferably is made in matched color-comparison tubes or in a suitable colorimeter under conditions that ensure that the colorimetric reference solution and that of the specimen under test are treated alike in all respects. The comparison of colors is best made in layers of equal depth, and viewed transversely against a white background (see also Visual Comparison under Spectrophotometry and Light-Scattering 851). It is particularly important that the solutions be compared at the same temperature, preferably 25°C .

Ref. Number	Description	Volume	Msr
USP065	Cobaltous Chloride CS	100	ml
USP065.L5	Cobaltous Chloride CS	500	ml
USP066	Cupric Sulfate CS	100	ml
USP066.L5	Cupric Sulfate CS	500	ml
USP067	Ferric Chloride CS	100	ml
USP067.L5	Ferric Chloride CS	500	ml
USP501	Matching Fluids for Color - kit of 20 fluids (A-T), 20x10ml	20x10	ml

Volumetric Solutions

Normal Solutions - Normal solutions are solutions that contain 1 gram equivalent weight of the active substance in each 1000 mL of solution; that is, an amount equivalent to 1.0079 g of hydrogen or 7.9997 g of oxygen. Normal solutions and solutions bearing a specific relationship to normal solutions, and used in volumetric determinations, are designated as follows: normal, 1 N; double-normal, 2 N; half-normal, 0.5 N; tenth-normal, 0.1 N; fiftiethnormal, 0.02 N; hundredth-normal, 0.01 N; thousandth-normal, 0.001 N. **Molar Solutions** - Molar solutions are solutions that contain, in 1000 mL, 1 grammolecule of the reagent. Solutions containing, in 1000 mL, one-tenth of a grammolecule of the reagent are designated tenth-molar, "0.1 M; and other molarities are similarly indicated. **Empirical Solutions** - It is frequently difficult to prepare standard solutions of a desired theoretical normality, and this is not essential. A solution of approximately the desired normality is prepared and standardized by titration against a primary standard solution. The normality factor so obtained is used in all calculations where such empirical solutions are employed.

Ref. Number	Description	Volume	Msr
USP088	Acetic Acid 2N VS	1000	ml
USP089	Ammonium Thiocyanate 0.1N VS	1000	ml
USP495	Barium Perchlorate 0.05M VS	1000	ml
USP438	Benzethonium Chloride, Two Hundred Fiftieth-Molar (0.004 M)	1000	ml
USP439	Bismuth Nitrate 0.01M VS	1000	ml
USP090	Bromine 0.1N VS	1000	ml
USP091	Ceric Ammonium Nitrate 0.05N VS	1000	ml

Ref. Number	Description	Volume	Msr
USP092	Ceric Sulfate 0.1N VS	1000	ml
USP093	Cupric Nitrate 0.1N VS	1000	ml
USP509	Edetate Disodium 0.02M VS	1000	ml
USP094	Edetate Disodium 0.05M VS	1000	ml
USP440	Edetate Disodium 0.1M VS	1000	ml
USP095	Ferric Ammonium Sulfate 0.1N VS	1000	ml
USP096	Ferrous Ammonium Sulfate 0.1N VS	1000	ml
USP446	Hydrochloric Acid 0.02N VS	1000	ml
USP447	Hydrochloric Acid 0.1N VS	1000	ml
USP099	Hydrochloric Acid 0.5N in Methanol VS	1000	ml
USP098	Hydrochloric Acid 0.5N VS	1000	ml
USP097	Hydrochloric Acid 1N VS	1000	ml
USP100	Hydrochloric Acid Alcoholic 0.1M VS	1000	ml
USP102	Iodine 0.01N VS	1000	ml
USP441	Iodine 0.05N VS	1000	ml
USP101	Iodine 0.1N VS	1000	ml
USP103	Lead Nitrate 0.01M VS	1000	ml
USP104	Lead Nitrate 0.1M	1000	ml
USP106	Lead Perchlorate 0.01M VS	1000	ml
USP105	Lead Perchlorate 0.1M VS	1000	ml
USP443	Magnesium Chloride 0.01M VS	1000	ml
USP111	Mercuric Nitrate 0.1M VS	1000	ml
USP112	Oxalic Acid 0.1N VS	1000	ml
USP114	Perchloric Acid 0.1N in Dioxane VS	1000	ml
USP113	Perchloric Acid 0.1N in Glacial Acetic Acid VS	1000	ml
USP444	Potassium Arsenite 0.1N VS	1000	ml
USP115	Potassium Bromate 0.1N VS	1000	ml
USP116	Potassium Bromide-Bromate 0.1N VS	1000	ml
USP449	Potassium Dichromate 0.025N VS	1000	ml
USP117	Potassium Dichromate 0.1N VS	1000	ml
USP118	Potassium Ferricyanide 0.05M VS	1000	ml
USP504	Potassium Hydroxide 0.1N VS	1000	ml
USP119	Potassium Hydroxide 1N VS	1000	ml
USP121	Potassium Hydroxide Alcoholic 0.1M VS	1000	ml
USP508	Potassium Hydroxide Alcoholic 0.2N VS	1000	ml
USP120	Potassium Hydroxide Alcoholic 0.5N VS	1000	ml
USP122	Potassium Hydroxide Methanolic 0.1N VS	1000	ml
USP123	Potassium Iodate 0.05M VS	1000	ml
USP124	Potassium Permanganate 0.1N VS	1000	ml
USP445	Potassium Thiocyanate 0.1N VS	1000	ml
USP450	Silver Nitrate 0.05N VS	1000	ml
USP125	Silver Nitrate 0.1N VS	1000	ml
USP451	Silver Nitrate in Isopropyl Alcohol 0.002N VS	1000	ml
USP126	Sodium Arsenite 0.05M VS	1000	ml
USP452	Sodium Hydroxide 0.1N VS	1000	ml
USP497	Sodium Hydroxide 0.5N VS	1000	ml
USP127	Sodium Hydroxide 1N VS	1000	ml
USP128	Sodium Hydroxide Alcoholic 0.1N VS	1000	ml

Ref. Number	Description	Volume	Msr
USP129	Sodium Methoxide 0.1N in Toluene VS	1000	ml
USP130	Sodium Methoxide 0.5N in Methanol VS	1000	ml
USP131	Sodium Nitrite 0.1M VS	1000	ml
USP502	Sodium Tetraphenylboron 0.02M VS	1000	ml
USP132	Sodium Thiosulfate 0.1N VS	1000	ml
USP133	Sulfuric Acid 0.5N in Alcohol VS	1000	ml
USP134	Sulfuric Acid 1N VS	1000	ml
USP496	Sulphuric Acid 0.05N VS	1000	ml
USP136	Tetrabutylammonium Hydroxide 0.1N in Methanol/Isopropyl Alcohol VS	1000	ml
USP135	Tetrabutylammonium Hydroxide 0.1N VS	1000	ml
USP137	Tetramethylammonium Bromide 0.1M VS	1000	ml
USP138	Tetramethylammonium Chloride 0.1M VS	1000	ml
USP510	Zinc Sulfate 0.02M VS	1000	ml
USP139	Zinc Sulfate 0.05M VS	1000	ml
USP453	Zinc Sulfate 0.1M VS	1000	ml



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