

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

DESCRIPTION	VALIDITY months	REF	VOLUME	UNIT
Primary opalescent suspension	6	OP001	100	ml
Hydrazine sulfate solution	6	OP002	100	ml
Hexamethylenetetramine solution	6	OP003	100	ml

Degree of coloration of liquids

DESCRIPTION	VALIDITY months	REF	VOLUME	UNIT
Primary blue solution	24	CB004	100	ml
Primary red solution	24	CR003	100	ml
Primary Yellow solution	24	CY002	100	ml
Standard solution B (brown)	6	B005	125	ml
Standard solution BY (brownish yellow)	6	BY006	125	ml
Standard solution GY (greenish yellow)	12	GY008	125	ml
Standard solution R (red)	6	R009	125	ml
Standard solution Y (yellow)	6	Y007	125	ml
Colour Reference Solutions B: B1-B9	12	B105	9x100	ml
Colour Reference Solutions BY: BY1-BY7	12	BY106	7x100	ml
Colour Reference Solutions GY: GY1-GY7	6	GY108	7x100	ml
Colour Reference Solutions R: R1-R7	12	R109	7x100	ml
Colour Reference Solutions Y: Y1-Y7	12	Y107	7x100	ml
Hydrochloric Acid (Dilution Matrix)	24	DM015	1000	ml



Solutions for Absorbance Spectrophotometry, Ultraviolet and Visible

DESCRIPTION	VALIDITY months	REF
Refractive Index Standard Kit : 5x8 ml Isooctane and 5x8 ml Water	24	RIIOW
Refractive Index Standard Kit : 5x8 ml Toluene and 5x8 ml Water	24	RITW
Potassium Chloride Solution for Stray Light Limit: 3x10 ml	36	UV2225KCl
Sodium Iodide Solution for Stray Light Testing: 3 x 10 ml	12	UV2225KNaI
Sodium Nitrite Solution for Stray Light Testing: 3 x 10 ml	12	UV2225KNaNi
Set of 2x10 ml Potassium Dichromate Solution for Absorbance Control 235 - 350 nm and 6x10 ml blank	36	UV2225PDA
Set of 2x10 ml Potassium Dichromate Solution for Absorbance Control at 430 nm and 6x10 ml blank	36	UV2225PDB
Set of 2x10 ml Toluene/ Hexane Solution for Resolution (for qualitative analysis) and 6x10 ml Blank	36	UV2225R
Holmium Oxide Solution for Wavelengths Control	36	UV2225WL

European Pharmacopoeia: ■ *Reagents* ■ *Standard Solutions* ■ *Buffer Solutions*

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 C.P.A. 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.

Reagents

DESCRIPTION	VALIDITY months	REF	VOLUME	UNIT
Acetic acid	24	1000401	1000	ml
Acetic acid	24	1000401a	100	ml
Acetic acid, dilute	24	1000402	1000	ml
Acetic acid, dilute	24	1000501a	100	ml
Acetic anhydride solution R1	12	1000501	1000	ml
Acetylacetone reagent R1	12	1000901	100	ml
Alcohol, aldehyde - free	12	1002501	1000	ml
Alizarin S solution	12	1002601	100	ml
Aluminium chloride reagent	12	1002702	1000	ml
Aluminium chloride reagent	12	1002702a	100	ml
Aluminium chloride solution	12	1002701	100	ml
Amido black 10B solution	12	1003101	100	ml
4-Aminobenzoic Acid Solution - Solution A	12	1003301	100	ml
Aminohippuric acid reagent	12	1003701	100	ml
Aminomethylalizarindiacetic Acid Reagent (Sol A+B+C)	3	1003901	50+50+100	ml
Aminomethylalizarindiacetic Acid Solution	3	1003902	1000	ml
Aminopyrazolone solution	12	1004601	100	ml
Ammonia	12	1004701	1000	ml
Ammonia, dilute R1	12	1004702	1000	ml
Ammonia, dilute R2	12	1004703	1000	ml
Ammonia, dilute R3	12	1004704	1000	ml
Ammonia, dilute R4	12	1004706	1000	ml
Ammonium carbonate solution	24	1005201	1000	ml
Ammonium carbonate solution R1	12	1005202	100	ml
Ammonium chloride solution	24	1005301	1000	ml
Ammonium molybdate solution	12	1005702	1000	ml
Ammonium molybdate solution R2	12	1005703	1000	ml
Ammonium molybdate solution R2	12	1005703a	50	ml
Ammonium molybdate solution R3 (I+II)	12	1005704	200+800	ml
Ammonium Molybdate Solution R6	12	1005709	100	ml
Ammonium oxalate solution	24	1005901	1000	ml
Ammonium Thiocyanate	24	1006701	1000	ml
Ammonium vanadate solution	12	1006801	100	ml
Anisaldehyde solution	12	1007301	100	ml
Anisaldehyde solution R1	12	1007302	100	ml
Antimony trichloride solution	12	1007701	100	ml
Antimony Trichloride Solution R1 (Solution A)	6	1007702	100	ml
Arsenite solution	12	1008301	100	ml
Ascorbic acid solution	12	1008401	100	ml
Azomethine H solution	12	1008701	100	ml
Barium chloride solution R1	24	1009301	1000	ml
Barium chloride solution R2	24	1009302	1000	ml
Barium hydroxide solution	24	1009401	1000	ml
Bismuth subnitrate solution	24	1011502	500	ml
Biuret reagent	12	1011601	1000	ml



DESCRIPTION	VALIDITY months	REF	VOLUME	UNIT
Blocking Solution	24	1122400	1000	ml
Borate solution	24	1033601	1000	ml
Boric acid solution, saturated, cold	12	1011801	100	ml
Bromine solution	12	1012401	100	ml
Bromine water	3	1012402	100	ml
Bromocresol green- methyl red solution	12	1012602	100	ml
Bromocresol green solution	24	1012601	100	ml
Bromocresol purple solution	24	1012701	100	ml
Bromophenol blue solution	24	1012801	100	ml
Bromophenol blue solution R1	24	1012802	100	ml
Bromophenol blue solution R2	24	1012803	100	ml
Bromothymol blue solution R1	24	1012901	100	ml
Bromothymol blue solution R2	24	1012902	100	ml
Bromothymol blue solution R3	24	1012903	100	ml
Bromothymol blue solution R4	24	1012904	100	ml
BRP indicator solution	12	1013000	100	ml
Calcium chloride solution	24	1014601	1000	ml
Calcium chloride solution 0.01M	24	1014602	1000	ml
Calcium chloride solution 0.01M	24	1014602a	100	ml
Calcium chloride solution 0.025M	24	1014604	1000	ml
Calcium Sulfate solution	12	1015201	100	ml
Calconecarboxylic acid tritrate	12	1015301	50	g
Chloral hydrate solution	12	1017901	100	ml
2-Chloroethanol solution	12	1097501	50	ml
2-Chloroethanol solution	12	1097501a	10	ml
Chloroform, acidified	12	1018601	100	ml
Chromotrope IIB Solution	12	1020201	100	ml
Chromotropic Acid-Sulphuric Acid Solution	6	1020302	100	ml
Congo red paper	12	1022002	pack of 50	
Congo red solution	24	1022001	100	ml
Coomassie Staining Solution	12	1012201	100	ml
Coomassie Staining Solution R1	12	1173000	100	ml
Coomassie Staining Solution R1	12	1173000a	200	ml
Copper edetate solution	12	1022300	1000	ml
Copper edetate solution	12	1022300a	100	ml
Copper sulfate solution	24	1022501	1000	ml
Copper tetrammine, ammoniacal solution of	12	1022600	100	ml
Cresol red solution	24	1022801	100	ml
Crystal violet solution	12	1022901	100	ml
Cupri-citric solution	12	1023100	1000	ml
Cupri-citric solution R1	12	1023200	1000	ml
Cupri-tartaric solution (I+II)	12	1023300	500+500	ml
Cupri-tartaric solution R4 (I+II)	12	1023304	500+500	ml
Decolorised pararosaniline solution	6	1062201	100	ml
Destaining solution	24	1012202	1000	ml
Developer solution	12	1122500	500	ml
Dichloroacetic acid solution	12	1027001	500	ml

DESCRIPTION	VALIDITY months	REF	VOLUME	UNIT
Dimethylaminobenzaldehyde solution R6	3	1029803	100	ml
Dimidium bromide-sulphan blue mixed solution	12	1031101	500	ml
Dinitrobenzene solution	12	1031201	1000	ml
Dinitrobenzoic acid solution	12	1031301	1000	ml
Dioxan solution	12	1032002	100	ml
Dioxan solution R1	12	1032003	50	ml
Dioxan stock solution	12	1032001	100	ml
Diphenylamine solution	12	1032101	1000	ml
Diphenylamine solution R1	12	1032102	1000	ml
Diphenylcarbazone mercuric reagent (I+II)	12	1032601	100+100	ml
Disodium hydrogen phosphate solution	24	1033301	1000	ml
Dithizone solution R2	12	1033903	100	ml
Divanadium pentoxide solution in sulphuric acid	24	1034001	100	ml
Ethyl acetate, treated	3	1035301	1000	ml
Ethylene oxide solution R5	12	1036408	10	ml
Ethylene oxide stock solution	12	1036401	10	ml
Ethylene oxide stock solution R1	12	1036406	10	ml
Ferric ammonium sulphate R2	12	1037702	1000	ml
Ferric ammonium sulphate R5	12	1037704	100	ml
Ferric ammonium sulphate R6	12	1037705	100	ml
Ferric chloride solution R1	12	1037801	1000	ml
Ferric chloride solution R2	12	1037802	1000	ml
Ferric chloride solution R3	12	1037803	100	ml
Ferric chloride-sulphamic acid reagent	12	1037804	1000	ml
Ferroun	24	1038100	100	ml
Fixing solution	6	1122600	500	ml
Fixing solution for isoelectric focusing in polyacrylamide gel	6	1138700	500	ml
Formaldehyde solution	12	1039101	100	ml
Formamide, treated	6	1039201	100	ml
Fuchsin solution, decolorised	12	1039401	100	ml
Fuchsin solution, decolorised R1	12	1039402	100	ml
Holmium perchlorate solution	12	1043101	3 x10	ml
Hydrochloric acid, brominated	12	1043507	100	ml
Hydrochloric acid, dilute	24	1043503	1000	ml
Hydrochloric acid, dilute R1	24	1043504	1000	ml
Hydrochloric acid, dilute R2	24	1043505	1000	ml
Hydrochloric acid, ethanolic	24	1043506	1000	ml
Hydrochloric Acid, Methanolic	24	1043511	1000	ml
Hydrochloric acid, R1	24	1043501	1000	ml
Hydroquinone solution	6	1044101	100	ml
Hydroxylamine hydrochloride solution R2	12	1044304	100	ml
Hydroxylamine solution, alcoholic	12	1044301	100	ml
Hydroxylamine solution, alkaline (I+II)	6	1044302	500+500	ml
Hydroxylamine solution, alkaline R1 (I+II)	12	1044303	100+100	ml
Hypophosphorous reagent	6	1045200	100	ml
Indigo carmine solution	12	1045601	100	ml
Indigo carmine solution R1	12	1045602	1000	ml



DESCRIPTION	VALIDITY months	REF	VOLUME	UNIT
Iodine bromide solution	12	1045901	1000	ml
Iodine Chloride Solution	12	1143001	100	ml
Iodine solution R4	12	1045806	1000	ml
Iodine solution, alcoholic	12	1045804	1000	ml
Iodine solution, chloroformic	12	1045805	1000	ml
Iodoplatinate reagent	12	1046300	200	ml
Iron salicylate solution	6	1046700	500	ml
Isatin Reagent	6	1046801	100	ml
Lanthanum chloride solution	24	1114001	1000	ml
Lanthanum nitrate solution	24	1048001	1000	ml
Lead acetate cotton	12	1048101	10	g
Lead acetate paper	12	1048102	pack of 50	
Lead acetate solution	6	1048103	1000	ml
Lead nitrate solution	12	1048301	1000	ml
Lead subacetate solution	12	1048400	100	ml
Litmus paper, blue	12	1049301	pack of 50	
Litmus paper, red	12	1049302	pack of 50	
Magnesium nitrate solution	12	1049801	100	ml
Magnesium nitrate solution R1 (10 times concentrated)	12	1049802	100	ml
Malachite green solution	6	1050501	100	ml
m-Cresol purple solution	12	1121701	100	ml
Mercuric acetate solution	6	1052001	100	ml
Mercuric bromide paper	12	1052101	pack of 50	
Mercuric chloride solution	12	1052201	100	ml
Mercuric sulphate solution	12	1052600	100	ml
Mercury, nitric acid solution of	6	1052801	100	ml
Metanil Yellow Solution	12	1052901	100	ml
Methanol, Aldehyde-free	24	1053300	1000	ml
Methanol, Anhydrous	24	1053400	1000	ml
Methanol, hydrochloric	24	1053203	100	ml
Methoxyphenylacetic Acid Reagent	12	1053601	30	ml
Methyl 4-acetylbenzoate reagent	6	1154100	100	ml
Methyl orange mixed solution	12	1054801	100	ml
Methyl orange solution	24	1054802	100	ml
Methyl red mixed solution	12	1055101	100	ml
Methyl red solution	24	1055102	100	ml
Methylene chloride, acidified	12	1055901	100	ml
Methylthymol blue mixture	24	1158501	50	g
Molybdovanadic reagent	12	1056700	100	ml
Mordant black 11 triturate	24	1056801	100	g
Mordant black 11 triturate R1	24	1056802	100	g
Naphtholbenzein solution	24	1057601	100	ml
Nile blue A solution	12	1058201	100	ml
Ninhydrin and stannous chloride reagent R1 (A +B)	3	1058302	100+100	ml
Ninhydrin solution	12	1058303	100	ml
Ninhydrin solution R1	12	1058304	100	ml
Ninhydrin solution R2	12	1058305	100	ml

DESCRIPTION	VALIDITY <i>months</i>	REF	VOLUME	UNIT
Ninhydrin solution R3	12	1058306	100	ml
Ninhydrin solution R3	12	1058306	100	ml
Nitric acid, dilute	24	1058402	100	ml
Nitric acid, dilute R1	24	1058407	100	ml
Nitric acid, dilute R2	24	1058409	100	ml
Nitrochromic reagent	24	1059100	100	ml
Nitro-molybdovanadic reagent	12	1060100	500	ml
Oxalic acid and sulphuric acid solution	12	1061401	1000	ml
Palladium chloride solution (to be diluted)	24	1061501	100	ml
Perchloric acid solution	24	1062901	100	ml
Periodic acetic acid solution	12	1063000	100	ml
Phenol red solution	24	1063601	100	ml
Phenol red solution R2	24	1063603	500	ml
Phenol red solution R3	24	1063604	500	ml
Phenol red solution R3	24	1063604a	100	ml
Phenolphthalein paper	24	1063704	pack of 50	
Phenolphthalein solution	24	1063702	100	ml
Phenolphthalein solution R1	24	1063703	100	ml
Phenylhydrazine hydrochloride solution	6	1064501	100	ml
Phosphomolybdotungstic reagent	12	1065000	100	ml
Phosphomolybdotungstic reagent, dilute	12	1065001	100	ml
Phosphoric acid, dilute	12	1065101	1000	ml
Phosphoric acid, dilute R1	12	1065102	1000	ml
Phosphotungstic acid solution	12	1065200	100	ml
Picric acid solution	6	1065801	100	ml
Picric acid solution R1	6	1065802	100	ml
Potassium chloride 0.1M	24	1069101	1000	ml
Potassium chromate solution	24	1069201	1000	ml
Potassium dichromate solution	12	1069501	1000	ml
Potassium dichromate solution R1	12	1069502	1000	ml
Potassium dihydrogen phosphate, 0.2 M	12	1069601	1000	ml
Potassium ferriperiodate solution	6	1070801	100	ml
Potassium ferrocyanide solution	12	1069801	100	ml
Potassium hydrogen phthalate, 0.2M	6	1070001	1000	ml
Potassium hydroxide in alcohol (10% V/V), 0.5M	12	1070302	1000	ml
Potassium hydroxide solution, alcoholic	12	1070303	100	ml
Potassium hydroxide solution, alcoholic R1	12	1070304	1000	ml
Potassium hydroxide, alcoholic 2M	12	1070301	100	ml
Potassium iodide and starch solution	12	1070501	100	ml
Potassium iodide solution	24	1070502	1000	ml
Potassium iodide solution, iodinated	12	1070503	100	ml
Potassium iodide solution, iodinated R1	12	1070505	100	ml
Potassium iodide solution, saturated	12	1070504	100	ml
Potassium iodobismuthate solution	6	1070600	100	ml
Potassium iodobismuthate solution R1	6	1070601	500	ml
Potassium iodobismuthate solution R2 (Stock solution)	6	1070602	100	ml
Potassium iodobismuthate solution R3	6	1070604	100	ml



DESCRIPTION	VALIDITY months	REF	VOLUME	UNIT
Potassium iodobismuthate solution R4	6	1070605	100	ml
Potassium iodobismuthate solution R5	6	1070606	100	ml
Potassium iodobismuthate solution, dilute	6	1070603	500	ml
Potassium permanganate and phosphoric acid solution	12	1070901	100	ml
Potassium permanganate solution	24	1070902	1000	ml
Potassium plumbite solution	6	1071200	100	ml
Potassium pyroantimonate solution	12	1071301	100	ml
Potassium tetraiodomercurate solution	12	1071500	100	ml
Potassium tetraiodomercurate solution, alkaline (I+II)	24	1071600	100+100	ml
Potassium thiocyanate solution	24	1071801	1000	ml
Pyridylazonaphthol Solution	12	1073501	100	ml
Quinaldine red solution	24	1073801	100	ml
Ruthenium red solution	12	1075201	100	ml
Salicylaldehyde azine. C14H12N2O2. (Mr 240.3)	12	1075500	100	g
SDS-PAGE Running Buffer (10 times concentrated)	12	1114900	1000	ml
SDS-PAGE Sample Buffer (Concentrated)	12	1115000	125	ml
SDS-PAGE Sample Buffer Solution for Reducing Conditions (Concentrated)	12	1122100	500	ml
Silver manganese paper	12	1078200	pack of 50	
Silver nitrate reagent	24	1078305	100	ml
Silver nitrate solution in pyridine	12	1078304	100	ml
Silver nitrate solution R1	24	1078301	1000	ml
Silver nitrate solution R2	24	1078302	1000	ml
Sodium carbonate solution	24	1079301	1000	ml
Sodium carbonate solution R1	24	1079302	1000	ml
Sodium carbonate solution R2	24	1079303	1000	ml
Sodium chloride solution	24	1079502	1000	ml
Sodium chloride solution, saturated	12	1079503	1000	ml
Sodium hydrogen carbonate solution	24	1081301	1000	ml
Sodium hydroxide solution	24	1081401	1000	ml
Sodium hydroxide solution, carbonate - free	24	1081406	1000	ml
Sodium hydroxide solution, dilute	24	1081402	1000	ml
Sodium hydroxide solution, methanolic	24	1081403	100	ml
Sodium hydroxide solution, methanolic R1	24	1081405	100	ml
Sodium hydroxide solution, strong	24	1081404	1000	ml
Sodium hypochlorite solution, strong	12	1081600	1000	ml
Sodium metabisulphite 45.5 g/l solution	12	1058305-2	100	ml
Sodium sulphide solution	6	1083901	100	ml
Sodium sulphide solution R1	6	1083902	100	ml
Stannous chloride solution	12	1085001	100	ml
Starch iodate paper	12	1085101	pack of 50	
Starch iodide paper	24	1085106	pack of 50	
Starch solution	12	1085103	100	ml
Sulphanilic acid solution	3	1086203	100	ml
Sulphanilic acid solution R1	3	1086201	100	ml
Sulphomolybdic reagent R2	12	1086400	100	ml
Sulphomolybdic reagent R3	12	1086500	100	ml

DESCRIPTION	VALIDITY months	REF	VOLUME	UNIT
Sulphuric acid, dilute	24	1086804	1000	ml
Sulphuric acid, dilute	24	1086804	100	ml
Sulphuric acid-formaldehyde reagent	6	1086805	100	ml
Tetramethyldiaminodiphenylmethane reagent	6	1088701	100	ml
Thioacetamide solution	12	1089602	1000	ml
Thioacetamide solution	12	1089602a	100	ml
Thymol blue solution	24	1090601	100	ml
Thymolphthalein solution	12	1090701	100	ml
Titan yellow paper	12	1090901	pack of 50	
Titan yellow solution	12	1090902	100	ml
Titanium trichloride - sulphuric acid reagent	6	1091202	100	ml
Titanium trichloride solution	12	1091201	100	ml
TLC performance test solution	6	1116600	10	ml
o-Tolidine solution	6	1123001	500	ml
Trichloroacetic acid solution	12	1092501	1000	ml
Triphenyltetrazolium Chloride Solution	12	1093801	100	ml
Tris (hydroxymethyl) aminomethane solution	4	1094201	100	ml
Vanillin solution, phosphoric	12	1095302	100	ml
Water	12	1095500	5000	ml
Water for chromatography	12	1095503	1000	ml
Water, ammonium-free	12	1095501	1000	ml
Water, carbon dioxide - free	12	1095502	1000	ml
Water, nitrate-free	12	1095506	1000	ml
Water, particle-free	12	1095507	1000	ml
Xylenol Orange Triturate	12	1096301	50	g
Zinc Acetate Solution	12	1102301	1000	ml
Zinc chloride solution, iodinated	12	1096602	1000	ml
Zinc chloride-formic acid solution	24	1096601	1000	ml
Zinc iodide and starch solution	12	1096502	100	ml
Zinc, activated	12	1096501	10	g
Zirconyl nitrate solution	24	1097201	100	ml

Standard Solutions

DESCRIPTION	VALIDITY months	REF	VOLUME	UNIT
Acetaldehyde standard solution 100 times concentrated (10000 ppm C ₂ H ₄ O)	6	5000100C	100	ml
Acetaldehyde standard solution 100 times concentrated R1 (10000 ppm C ₂ H ₄ O)	6	5000101C	100	ml
Aluminium standard solution (200 ppm Al)	4	5000200	100	ml
Aluminium standard solution 10 times concentrated (1000 ppm Al)	12	5000203C	100	ml
Aluminium standard solution 100 times concentrated (1000 ppm Al)	12	5000201C	100	ml
Aluminium standard solution 100 times concentrated (200 ppm Al)	12	5000202C	100	ml
Ammonium standard solution 2.5 times concentrated (250 ppm NH ₄)	12	5000300C	100	ml
Ammonium standard solution 250 times concentrated (250 ppm NH ₄)	12	5000302C	100	ml



DESCRIPTION	VALIDITY months	REF	VOLUME	UNIT
Ammonium standard solution 100 times concentrated (250 ppm NH ₄)	12	5000301C	100	ml
Ammonium standard solution 100 times concentrated (300 ppm NH ₄)	12	5006100C	100	ml
Antimony standard solution 10 times concentrate (10 ppm Sb)	12	5000400C	100	ml
Antimony standard solution (100 ppm Sb)	12	5000401	100	ml
Arsenic standard solution 100 times concentrated (1000 ppm As)	12	5000500C	100	ml
Barium standard solution 20 times concentrated (1000 ppm Ba)	12	5000600C	100	ml
Barium standard solution (0.1 per cent Ba)	12	5000601	100	ml
Bismuth standard solution 10 times concentrated (1000 ppm)	12	5005300C	100	ml
Cadmium standard solution (0.1 per cent Cd)	12	5000700	100	ml
Calcium standard solution 100 times concentrated (1000 ppm Ca)	12	5000803C	100	ml
Calcium standard solution 10 times concentrared (1000 ppm Ca)	12	5000801C	100	ml
Calcium standard solution 10 times concentrared R1(1000 ppm Ca)	12	5000804C	100	ml
Calcium standard solution 10 times concentrared (4000 ppm Ca)	12	5000800C	100	ml
Calcium standard solution alcoholic 10 times concentrared (1000 ppm Ca)	12	5000802C	100	ml
Chloride standard solution 10 times concentrated (500 ppm Cl)	12	5004100C	100	ml
Chloride standard solution 100 times concentrated (500 ppm)	12	5000901C	100	ml
Chloride standard solution 100 times concentrated (800 ppm Cl)	12	5000900C	100	ml
Chromium standard solution (0.1 per cent Cr)	12	5001002	100	ml
Chromium standard solution (100 ppm Cr)	12	5001000	100	ml
Cobalt standard solution (100 ppm Co)	12	5004300	100	ml
Copper standard solution (0.1 per cent Cu)	12	5001100	100	ml
Ferrocyanide standard solution 10 times concentrated (1000 ppm Fe(CN) ₆)	12	5001200C	100	ml
Ferrocyanide standard solution 100 times concentrated (5000 ppm Fe(CN) ₆)	12	5001300C	100	ml
Fluoride standard solution 20 times concentrated (200 ppm F)	12	5001400C	100	ml
Formaldehyde standard solution 200 times concentrated (1000 ppm CH ₂ O)	12	5001500C	100	ml
Germanium standard solution (100 ppm Ge)	12	5004400	100	ml
Glyoxal standard solution 100 times concentrated (2000 ppm C ₂ H ₂ O ₂)	12	5003700C	100	ml
Iodide standard solution 100 times concentrated (1000 ppm I)	12	5003800C	100	ml
Iron standard solution (0.1 per cent Fe)	12	5001605	100	ml
Iron standard solution 10 times concentrated (200 ppm Fe)	12	5001600C	100	ml
Iron standard solution 10 times concentrated (80 ppm Fe)	12	5001602C	100	ml
Iron standard solution 40 times concentrated (10 000 ppm Fe)	12	5001606C	100	ml
Iron Standard Solutuion 100 times concentrated (1000 ppm Fe)	12	5001601C	100	ml
Lead standard solution 500 times concentrated (1000 ppm Pb)	12	5001703C	100	ml
Lead standard solution R1 10 times concentrated (100 ppm Pb)	12	5001706C	100	ml
Lead standard solution (0.1 per cent Pb)	12	5001700	100	ml
Lead standard solution R1(0.1 per cent Pb)	12	5005400	100	ml
Magnesium standard solution (0.1 per cent Mg)	12	5001803	100	ml
Magnesium standard solution 10 times concentrated (1000 ppm Mg)	12	5001800C	100	ml
Magnesium standard solution R1 100 times concentrated (1000 ppm)	12	5001802C	100	ml
Magnesium standard solution (1000 ppm Mg)	12	5006200	100	ml
Manganese standard solution (1000 ppm Mn)	12	5005800	100	ml
Manganese standard solution (100 ppm Mn)	12	5004500	100	ml
Mercury standard solution (1000 ppm Hg)	12	5001900	100	ml

DESCRIPTION	VALIDITY months	REF	VOLUME	UNIT
Mercury standard solution 100 times concentrated (1000 ppm Hg)	12	5001901C	100	ml
Nickel standard solution 100 times concentrated (1000 ppm Ni)	12	5002000C	100	ml
Nitrate standard solution 10 times concentrated (1000 ppm NO ₃)	12	5002100C	100	ml
Palladium standard solution (500 ppm Pd)	12	5003600	100	ml
Palladium standard solution 10 times concentrated (200 ppm Pd)	12	5003602C	100	ml
Phosphate standard solution 100 times concentrated (500 ppm PO ₄)	12	5002200C	100	ml
Phosphate standard solution (200 ppm PO ₄)	12	5004200	100	ml
Platinum standard solution 10 times concentrated(300 ppm Pt).	12	5002300C	100	ml
Potassium standard solution (0.2 per cent K)	12	5002402	100	ml
Potassium standard solution 20 times concentrated (12000 ppm K)	12	5005100C	100	ml
Potassium standard solution 20 times concentrated (2000 ppm K)	12	5002400C	100	ml
Selenium standard solution (100 ppm Se)	12	5002500	100	ml
Selenium standard solution 40 times concentrated (40 ppm Se)	12	5002501C	100	ml
Sodium standard solution 10 times concentrated (2000 ppm Na)	12	5002700C	100	ml
Sodium standard solution (1000 ppm Na)	12	5005700	100	ml
Strontium standard solution (1.0 per cent Sr)	12	5003900	100	ml
Sulphate standard solution 10 times concentrated (1000 ppm)	12	5002802C	100	ml
Sulphate standard solution 100 times concentrated (1000 ppm)	12	5002800C	100	ml
Sulphate standard solution R1 100 times concentrated (1000 ppm SO ₄)	12	5002801C	100	ml
Sulfite standard solution 200 times concentrated (16000 ppm SO ₂)	12	5005500C	100	ml
Sulphite standard solution (1.5 ppm SO ₂)	12	5002900	100	ml
Thallium standard solution 10 times concentrated (100 ppm Tl)	12	5003000C	100	ml
Tin standard solution 100 times concentrated (500 ppm Sn)	12	5003100C	100	ml
Titanium standard solution (100 ppm Ti)	12	5003200	100	ml
Vanadium standard solution (1 g/l V)	12	5003300	100	ml
Zinc standard solution (5 mg/mL Zn).	12	5003400	100	ml
Zinc standard solution 10 times concentrated (1000 ppm Zn)	12	5003401C	100	ml
Zirconium standard solution (1 g/l Zr)	12	5003500	100	ml

Buffer Solutions

DESCRIPTION	VALIDITY months	REF	VOLUME	UNIT
Buffered acetone solution	12	4000100	1000	ml
Buffer solution pH 2.0	12	4000200	1000	ml
Phosphate buffer solution pH 2.0	12	4007900	1000	ml
Sulphate buffer solution pH 2.0	12	4008900	1000	ml
Buffer solution pH 2.2	12	4010500	1000	ml
Buffer solution pH 2.5	12	4000300	1000	ml
Buffer solution pH 2.5 R1	12	4000400	1000	ml
Phosphate buffer solution pH 2.8	12	4010600	1000	ml
Buffer solution pH 3.0	12	4008000	1000	ml
Phosphate buffer solution pH 3.0	12	4000500	1000	ml
Phosphate buffer solution pH 3.0 R1	12	4010000	1000	ml
0.25 M Citrate buffer solution pH 3.0	12	4012600	100	ml
0.1 M Phosphate buffer solution pH 3.0	12	4011500	1000	ml



DESCRIPTION	VALIDITY months	REF	VOLUME	UNIT
Phosphate buffer solution pH 3.2	12	4008100	1000	ml
Phosphate buffer solution pH 3.2 R1	12	4008500	1000	ml
Buffer solution pH 3.5	12	4000600	1000	ml
Phosphate buffer solution pH 3.5	12	4000700	1000	ml
Buffer solution pH 3.6	12	4000800	1000	ml
Buffer solution pH 3.7	12	4000900	1000	ml
Buffer copper sulphate solution pH 4.0	12	4001000	1000	ml
Sodium acetate buffer solution pH 4.0 (0.1 M)	12	4013800	1000	ml
Acetate buffer solution pH 4.4	12	4001100	1000	ml
Phtalate buffer solution pH 4.4	12	4001200	1000	ml
Acetate buffer solution pH 4.5	12	4012500	1000	ml
0.05 M Phosphate buffer solution pH 4.5	12	4009000	1000	ml
Sodium acetate buffer solution pH 4.5	12	4010100	1000	ml
Acetate buffer solution pH 4.6	12	4001400	1000	ml
Succinate buffer solution pH 4.6	12	4001500	1000	ml
Acetate buffer solution pH 4.7	12	4001600	1000	ml
Acetate buffer solution pH 4.7 R1	12	4013600	1000	ml
Acetate buffer solution pH 5.0	12	4009100	1000	ml
Citrate buffer solution pH 5.0	12	4010700	1000	ml
Phosphate buffer solution pH 5.0	12	4011300	1000	ml
Buffer solution pH 5.2	12	4001700	1000	ml
0.067 M Phosphate buffer solution pH 5.4	12	4012000	1000	ml
Acetate-edetate buffer solution pH 5.5	12	4001900	1000	ml
Buffer solution pH 5.5	12	4001800	1000	ml
Phosphate buffer solution pH 5.5	12	4002000	1000	ml
Phosphate-citrate buffer solution pH 5.5	12	4008700	1000	ml
Phosphate buffer solution pH 5.6	12	4011200	1000	ml
Phosphate buffer solution pH 5.8	12	4002100	1000	ml
Acetate buffer solution pH 6.0	12	4002200	1000	ml
Diethylammonium phosphate buffer solution pH 6.0	12	4002300	1000	ml
Phosphate buffer solution pH 6.0	12	4002400	1000	ml
Phosphate buffer solution pH 6.0 R1	12	4002500	1000	ml
Phosphate buffer solution pH 6.0 R2	12	4002600	1000	ml
Phosphate buffer solution pH 6.4	12	4002800	1000	ml
0.5M Phtalate buffer solution pH 6.4	12	4009200	1000	ml
Buffer solution pH 6.5	12	4002900	1000	ml
Imidazole buffer solution pH 6.5	12	4003000	1000	ml
0.1 M phosphate buffer solution pH 6.5	12	4010800	1000	ml
Phosphate buffer solution pH 6.5	12	4012800	1000	ml
Buffer solution pH 6.6	12	4003100	1000	ml
Phosphate buffered saline pH 6.8	12	4003200	1000	ml
Phosphate buffer solution pH 6.8	12	4003300	1000	ml
Phosphate buffer solution pH 6.8 R1	12	4003400	1000	ml
1 M tris-hydrochloride buffer solution pH 6.8	12	4009300	500	ml
Buffer solution pH 7.0	12	4003500	1000	ml
Maleate buffer solution pH 7.0	12	4003600	1000	ml
Phosphate buffer solution pH 7.0	12	4003700	1000	ml

DESCRIPTION	VALIDITY months	REF	VOLUME	UNIT
0.025M Phosphate buffer solution pH 7.0	12	4009400	1000	ml
0.03M Phosphate buffer solution pH 7.0	12	4010300	1000	ml
0.05 M Phosphate buffer solution pH 7.0	12	4012400	1000	ml
0.063M Phosphate buffer solution pH 7.0	12	4009500	1000	ml
0.067M Phosphate buffer solution pH 7.0	12	4003800	1000	ml
0.03M Phosphate buffer solution pH 7.0 R1	12	4003900	1000	ml
0.1M Phosphate buffer solution pH 7.0	12	4008200	1000	ml
Phosphate buffer solution pH 7.0 R2	12	4004000	1000	ml
Phosphate buffer solution pH 7.0 R3	12	4008600	1000	ml
Phosphate buffer solution pH 7.0 R4	12	4010200	1000	ml
Phosphate buffer solution pH 7.0 R5	12	4011400	1000	ml
Tetrabutylammonium buffer solution pH 7.0	12	4010900	1000	ml
Buffered salt solution pH 7.2	12	4004300	1000	ml
Buffer solution pH 7.2	12	4004100	1000	ml
Phosphate buffer solution pH 7.2	12	4004200	1000	ml
Barbital buffer solution pH 7.4	12	4004700	1000	ml
Buffer solution pH 7.4	12	4004600	1000	ml
Imidazole buffer solution pH 7.3	12	4004500	1000	ml
Phosphate buffered saline pH 7.4	12	4005000	1000	ml
Phosphate buffer solution pH 7.4	12	4004800	1000	ml
Tris(hydroxymethyl)aminomethane buffer solution pH 7.4	12	4012100	500	ml
Tris(hydroxymethyl)aminomethane sodium chloride buffer solution pH 7.4	12	4004900	1000	ml
Tris(hydroxymethyl)aminomethane sodium chloride buffer solution pH 7.4 R1	12	4012200	100	ml
Tris-sodium acetate buffer solution pH 7.4	12	4012900	1000	ml
Tris-sodium acetate-sodium chloride buffer solution pH 7.4	12	4013000	1000	ml
Borate buffer solution pH 7.5	12	4005200	1000	ml
0.2M Phosphate buffer solution pH 7.5	12	4005400	1000	ml
0.33M Phosphate buffer solution pH 7.5	12	4005300	1000	ml
Tris(hydroxymethyl)aminomethane buffer solution pH 7.5	12	4005500	1000	ml
0.05 M Tris-hydrochloride buffer solution pH 7.5	12	4005600	1000	ml
Sodium citrate buffer solution pH 7.8 (0.034M sodium citrate, 0.101M sodium chloride)	12	4009800	1000	ml
0.0015 M Borate buffer solution pH 8.0	12	4006000	1000	ml
Buffer solution pH 8.0	12	4005900	1000	ml
Buffer solution pH 8.0 R1	12	4010400	1000	ml
0.02M Phosphate buffer solution pH 8.0	12	4006100	1000	ml
0.1M Phosphate buffer solution pH 8.0	12	4008400	1000	ml
1M Phosphate buffer solution pH 8.0	12	4007800	1000	ml
0.02 M Sodium phosphate buffer solution pH 8.0	12	4013700	1000	ml
Tris-hydrochloride buffer solution pH 8.0	12	4012300	100	ml
1 M Tris-hydrochloride buffer solution pH 8.0	12	4012700	1000	ml
Tris-sodium acetate buffer solution pH 8.0	12	4013100	1000	ml
Tris-sodium acetate-sodium chloride buffer solution pH 8.0	12	4013200	1000	ml
Tris(hydroxymethyl)aminomethane buffer solution pH 8.1	12	4006200	100	ml
Tris-glycine buffer solution pH 8.3	12	4006300	1000	ml
Tris-hydrochloride buffer solution pH 8.3	12	4011800	1000	ml



DESCRIPTION	VALIDITY months	REF	VOLUME	UNIT
Barbital buffer solution pH 8.4	12	4006400	1000	ml
Tris(hydroxymethyl)aminomethane-EDTA buffer solution pH 8.4	12	4006600	500	ml
Phosphate buffer solution pH 8.5	12	4013300	1000	ml
Tris acetate buffer solution pH 8.5	12	4006700	1000	ml
Barbital buffer solution pH 8.6 R1	12	4006900	1000	ml
1.5M tris-hydrochloride buffer solution pH 8.8	12	4009900	1000	ml
Buffer solution pH 9.0	12	4007000	1000	ml
Buffer solution pH 9.0 R1	12	4007100	1000	ml
Buffer (phosphate) solution pH 9.0	12	4008300	1000	ml
0.05 M Tris-hydrochloride buffer solution pH 9.0	12	4013500	100	ml
Ammonium chloride buffer solution pH 9.5	12	4007200	1000	ml
Ammonium chloride buffer solution pH 10.0	12	4007300	1000	ml
Diethanolamine buffer solution pH 10.0	12	4007500	1000	ml
0.1 M Ammonium carbonate buffer solution pH 10.3	12	4011900	1000	ml
Ammonium chloride buffer solution pH 10.4	12	4011000	1000	ml
Borate buffer solution pH 10.4	12	4011100	1000	ml
Ammonium chloride buffer solution pH 10.7	12	4013400	1000	ml
Buffer solution pH 10.9	12	4007600	1000	ml
Total-ionic-strength-adjustment buffer	12	4007700	1000	ml
Total-ionic-strength-adjustment buffer R1	12	4008800	1000	ml

Primary standards for volumetric solutions

Primary standards are prepared as per the methods described in chapter 4.2.1 of Ph Eur. Each bottle is accompanied by a Certificate of Analysis.

DESCRIPTION	VALIDITY months	REF	VOLUME	UNIT
Benzoic Acid - C ₇ H ₆ O ₂	36	2000200	100	g
Potassium Bromate - KBrO ₃	36	2000300	50	g
Potassium Hydrogen Phthalate - C ₈ H ₅ KO ₄	36	2000400	50	g
Sodium Carbonate - Na ₂ CO ₃ (anhydrous)	36	2000500	50	g
Sodium Chloride - NaCl	36	2000600	250	g
Sulphanilic Acid - C ₆ H ₇ NO ₃ S	36	2000700	100	g
Zinc - Zn	36	2000800	100	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. 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 repeatability 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 C.P.A. 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.

DESCRIPTION	VALIDITY <i>months</i>	REF	VOLUME	UNIT
Acetic acid 0.1 M	24	3008900	1000	ml
Ammonium and cerium nitrate 0.01 M	12	3000200	1000	ml
Ammonium and cerium nitrate 0.1 M	24	3000100	1000	ml
Ammonium and cerium sulphate 0.01M	12	3000400	1000	ml
Ammonium and cerium sulphate 0.1M	12	3000300	1000	ml
Ammonium thiocyanate 0.1M	24	3000500	1000	ml
Barium chloride 0.1M	12	3000600	1000	ml
Barium perchlorate 0.025M	12	3009600	1000	ml
Barium perchlorate 0.05M	12	3000700	1000	ml
Benzethonium chloride 0.004 M	24	3000900	1000	ml
Bismuth nitrate 0.01 M	12	3010000	1000	ml
Bromide-bromate 0.0167M	12	3001000	1000	ml
Cerium sulphate 0.1 M	24	3001100	1000	ml
Copper sulphate 0.02M	12	3001200	1000	ml
Cupriethylenediamine hydroxide solution 1M	12	3008700	1000	ml
Cupriethylenediamine hydroxide solution 1M	12	3008700a	100	ml
Ferric ammonium sulphate 0.1M	24	3001300	1000	ml
Ferrous sulphate 0.1M	6	3001400	1000	ml
Hydrochloric acid 0.1M	24	3002100	1000	ml
Hydrochloric acid 1M	24	3001800	1000	ml
Hydrochloric acid 2M	24	3001700	1000	ml
Hydrochloric acid 3M	24	3001600	1000	ml
Hydrochloric acid 6M	24	3001500	1000	ml
Hydrochloric acid, alcoholic 0.1M	12	3008800	1000	ml
Hydrochloric acid, alcoholic 0.1M	12	3008800a	100	ml
Iodine 0.01M	12	3002900	1000	ml
Iodine 0.01M	12	3002900a	100	ml
Iodine 0.05M	12	3002700	1000	ml
Iodine 0.5M	12	3009400	1000	ml
Lanthanum Nitrate 0.1M	12	3010100	1000	ml
Lanthanum Nitrate 0.1M	12	3010100a	100	ml
Lead nitrate 0.05M	12	3009700	1000	ml
Lead nitrate 0.1M	24	3003100	1000	ml
Magnesium chloride 0.1M	24	3003400	1000	ml
Nitric acid 1M	24	3003600	1000	ml
Perchloric acid 0.025M	12	3009900	1000	ml
Perchloric acid 0.025M	12	3009900a	100	ml
Perchloric acid 0.05M	12	3004000	1000	ml
Perchloric acid 0.05M	12	3004000a	100	ml
Perchloric acid 0.1M	12	3003900	1000	ml
Potassium bromate 0.0083M	12	3004500	1000	ml



DESCRIPTION	VALIDITY months	REF	VOLUME	UNIT
Potassium bromate 0.0167M	12	3004400	1000	ml
Potassium bromate 0.02M	12	3004300	1000	ml
Potassium bromate 0.033M	12	3004200	1000	ml
Potassium dichromate 0.0167M	24	3004600	1000	ml
Potassium hydrogen phthalate 0.1M	12	3004700	1000	ml
Potassium Hydroxide 0.1M	24	3004800	1000	ml
Potassium Hydroxide 1M	24	3009100	1000	ml
Potassium Hydroxide alcoholic 0.01M	12	3009000	1000	ml
Potassium Hydroxide alcoholic 0.1M	12	3005100	1000	ml
Potassium Hydroxide alcoholic 0.5M	12	3005000	1000	ml
Potassium Hydroxide in alcohol (60% v/v) 0.5M	12	3004900	1000	ml
Potassium iodate 0.05M	12	3005200	1000	ml
Potassium iodide 0.001M	6	3009200	1000	ml
Potassium permanganate 0.02M	24	3005300	1000	ml
Silver nitrate 0.001M	6	3009300	1000	ml
Silver nitrate 0.001M	6	3009300a	500	ml
Silver nitrate 0.1M	24	3005600	1000	ml
Sodium arsenite 0.1M	12	3005800	500	ml
Sodium edetate 0.02M	24	3006000	1000	ml
Sodium edetate 0.1M	24	3005900	1000	ml
Sodium hydroxide 0.1M	24	3006600	1000	ml
Sodium hydroxide 1M	24	3006300	1000	ml
Sodium hydroxide 2M	12	3009800	1000	ml
Sodium hydroxide, ethanolic 0.1M	12	3007000	1000	ml
Sodium methoxide 0.1M	12	3007100	1000	ml
Sodium nitrite 0.1M	6	3007200	1000	ml
Sodium periodate 0.1M	12	3009500	1000	ml
Sodium thiosulphate 0.1M	24	3007300	1000	ml
Sulphuric acid 0.05M	24	3008000	1000	ml
Sulphuric acid 0.5M	24	3007800	1000	ml
Tetrabutylammonium hydroxide 0.1M	12	3008300	1000	ml
Tetrabutylammonium hydroxide 0.1M	12	3008300a	100	ml
Tetrabutylammonium hydroxide in 2-propanol, 0.1M	12	3008400	1000	ml
Zinc chloride 0.05M	24	3008500	1000	ml
Zinc sulphate 0.1M	24	3008600	1000	ml

Residual solvents

The International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use (ICH) has adopted Impurities Guidelines for Residual Solvents which prescribes limits for the content of solvents which may remain in active substances, excipients and medicinal products after processing. The European Pharmacopoeia is, however, applying the same principles enshrined in the guideline to existing active substances, excipients and medicinal products whether or not they are the subject of a monograph of the Pharmacopoeia.

Residual solvents were evaluated for their possible risk to human health and placed into one of three classes as follows:

Class 1 solvents: Solvents to be avoided

Known human carcinogens, strongly suspected human carcinogens, and environmental hazards.

Class 2 solvents: Solvents to be limited

Non-genotoxic animal carcinogens or possible causative agents of other irreversible toxicity such as neurotoxicity or teratogenicity.

Solvents suspected of other significant but reversible toxicities.

Solvents with low toxic potential to man; no health-based exposure limit is needed.

DESCRIPTION	VALIDITY months	REF	VOLUME	UNIT
Residual Solvents Class 1 (5 times concentrated): Benzene [CAS:71-43-2] 10 ppm; Tetrachloromethane (Carbon tetrachloride) [CAS:56-23-5] 20 ppm; 1,2-Dichloroethane [CAS:107-06-2] 25 ppm; 1,1-Dichloroethene [CAS:75-35-4] 40 ppm; Trichloroethene [CAS:79-01-6] 50 ppm in Dimethylsulfoxide	12	F131680	1	ml
Residual Solvents Class 2 (ready-to-use): Acetonitrile [CAS:75-05-8] 20.5 ppm; Chlorobenzene [CAS:108-90-7] 18 ppm; Cyclohexane [CAS:110-82-7] 194 ppm; cis-1,2-Dichloroethene [CAS:156-59-2] 46.8 ppm; trans-1,2-Dichloroethene [CAS:156-60-5] 46.8 ppm; Dichloromethane [CAS:75-09-2] 30 ppm; N,N-Dimethylacetamide [CAS:127-19-5] 54.5 ppm; Dimethylformamide [CAS:68-12-02] 44 ppm; Dioxan [CAS:123-91-1] 19 ppm; 2-Ethoxyethanol [CAS:110-80-5] 8 ppm; Methanol [CAS:67-56-1] 150 ppm; 2-Methoxyethanol [CAS:109-86-4] 2.5 ppm; Methylbutylketone [CAS:591-78-6] 2.5 ppm; Methylcyclohexane [CAS:108-87-2] 59 ppm; Tetrahydrofuran [CAS:109-99-9] 36 ppm; Toluene [CAS:108-88-3] 44.5 ppm; m-Xylene [CAS:108-38-3] 65.1 ppm; p-Xylene [CAS:106-42-3] 15.2 ppm; o-Xylene [CAS:95-47-6] 9.8 ppm; Ethylbenzene [CAS:100-41-4] 18.5 ppm in Dimethylsulfoxide	12	F524720	1	ml
Residual Solvents Class 2 (ready-to-use): Chloroform [CAS:67-66-3] 3 ppm; 1,2-Dimethoxyethane [CAS:110-71-4] 5 ppm; Ethyleneglycol [CAS:107-21-1] 31 ppm; Formamide [CAS:75-12-7] 11 ppm; n-Hexane [CAS:110-54-3] 14.5 ppm; N-Methylpyrrolidone [CAS:872-50-4] 26.5 ppm; Nitromethane [CAS:75-52-5] 2.5 ppm; Pyridine [CAS:110-86-1] 10 ppm; Sulfolan [CAS:126-33-0] 8; Tetralin [CAS:119-64-2] 4 ppm; 1,1,2-Trichloroethene [CAS:79-01-6] 5 ppm in Dimethylsulfoxide	12	F524730	1	ml

