Dispenser Chemical Resistant Chart

WHEATON®

501

520

525

530

Reagents	501	520	525	530
Acetaldehyde (Ethanal)			A	A
Acetic acid 96%			A	B/2
Acetic acid 100% (glacial)	A	A	B/4	B/2/4
Acetic anhydride	B/4	B/4	B/4	B/4
Acetone (Propanone)	A	B/4	B/4	B/4
Acetonitrile (MECN)	A	A	B/4	B/4
Acetophenone			B/4	B/2/4
Acetyl Chloride			B/4	B/2/4
Acetylacetone			A	A
Acrylic acid			A	A
Acrylonitrile			B/4	B/4
Adipic acid			C/1	A
Allyl alcohol			A	A
Aluminum chloride			C/1	A
Amino acids			C/1	A
Ammonia 20%			B/4	B/4
Ammonia 20-30%			B/4	B/4
Ammonium chloride			C/1	A
Ammonium fluoride			C/1	A
Ammonium hydroxide	A	A		
Ammonium molybdate	A	A	C/1	A
Ammonium sulfate			C/1	A
Amyl alcohol (Pentanol)			A	A
Amyl chloride (Chloropentane)			B/4	B/2/4
Aniline	A	A	A	A
Antimony trichloride	B/2	A		
Ascorbic acid	A	A	C/1	A
n-Amyl acetate			B/4	B/4
Barium chloride			C/1	A
Benzaldehyde	A	A	A	A
Benzene	A	B/4	B/4	B/4
Benzine			A	A
Benzoyl chloride			B/4	B/4
Benzyl alcohol			A	A
Benzyl chloride			B/4	B/4
Bis(2-ethylhexyl) phthalate	A	B/4	B/4	B/4
Boric acid 10%			B/1	A
Boric acid	A	A		
Bromine	B/2	B/2	C/4	C/2/4
Bromobenzene			B/4	B/4
Bromonaphtalene			A	A
Butanediol			B/1	A
Butanol	A	A	A	A
Butanone (MEK)	A	B/4	B/4	B/4
Butyl acetate	A	A	B/4	B/4
Butyl acrylate	A	A		
Butyl methyl ether			B/4	B/4
Butylamine			B/4	B/4

Reagents	501	520	525	530
Butyric acid			B/4	B/4
Calcium carbonate			C/1	B/1
Calcium chloride	B/1	A	C/1	A
Calcium hydroxide			C/1	B/1
Calcium hypochlorite			C/1	B/1
Carbon disulfide	A	A	B/4	B/4
Carbon tetrachloride	A	A	B/4	B/4
Chlorine dioxide			B/4	B/2/4
Chlorine water	C/2/4	B/2/4		
Chloro naphthalene			B/4	B/4
Chloroacetaldehyde 45%			B/1	A
Chloroacetic acid			B/1	A
Chloroacetone			B/4	B/4
Chlorobenzene	A	A	B/4	B/4
Chlorobutane	A	A	B/4	B/4
Chloroethanol	A	A	B/4	B/4
Chloroform	B/4	B/4	B/4	B/4
Nitro-hydrochloric acid (Aqua regia)			B/4	B/2/4
Chloronitric acid 100%	B/2/3	B/3		
Chlorosulfuric acid			B/4	B/4
Chlorosulfuric acid 100%	B/2/3	B/3	B/3/4	B/3/4
Chromic acid 100%	B/2/3	B/3	B/3/4	B/3/4
Chromosulfuric acid 100%	A	A	C/1/3/4	B/2/3/4
Citric acid			B/1	A
Copper fluoride	A	A	C/1	B/1
Copper sulfate			C/1	A
Cresol			B/1	A
Cumene (Isopropylbenzene)			B/4	B/4
Cyanoacrylate	C/1	C/1	C/1	C/1
Cyclohexane	A	A	B/4	B/4
Cyclohexanone	A	A	B/4	B/4
Cyclopentane			B/4	B/4
1,2-Diethylbenzene			B/4	B/4
1,4-Dioxane (Diethylene dioxide)			B/4	B/4
1-Decanol			A	A
Decane			A	A
Di-(2-ethylhexyl) peroxydicarbonate	B/1	B/4	B/4	B/4
Dibenzyl ether			B/4	B/4
Dichloroacetic acid			A	A
Dichlorobenzene			A	A
Dichloroethane	B/4	B/4	A	A
Dichloroethylene			B/4	B/4
Diesel oil (Heating oil)			A	A
Diethanolamine			A	A
Diethylamine			B/4	B/4
Diethylene glycol	A	A	A	A
Diethylether	A	A	B/4	B/4
Dimethyl sulfoxide (DMSO)	A	A	B/1/4	B/4

Reagents	501	520	525	530
Dimethylaniline			A	A
Dimethylformamide (DMF)	A	B/4	B/4	B/4
Dioxane /Diethylene dioxide	A	A		
Dioxide chlorine	B/2/4	B/2/4		
Diphenyl ether			B/1/4	B/4
Ethanol	A	A	A	A
Ethanolamine			B/4	B/4
Ether	A	B/4	B/4	B/4
Ethyl acetate	A	A	B/4	B/4
Ethylbenzene			B/4	B/4
Ethylene chloride			B/4	B/4
Ethylene diamine	A	A	A	A
Ethylene glycol	A	A	A	A
Fluoroacetic acid			B/1/4	B/4
Formaldehyde (Formalin)	A	A	A	A
Formamide			A	A
Formic acid	A	A	A	A
Gamma-butyrolactone	A	A	A	A
Gasoline	A	A	B/4	B/4
Glycerin <40%	A	A	A	A
Glycolic acid 50%			B/1	A
Heating oil (Diesel oil)			A	A
Heptane	A	A	A	A
Hexane	A	A	A	A
Hexanoic acid			B/1	A
Hexanol			A	A
Hydriodic acid			B/4	B/4
Hydrobromic acid			A	A
Hydrochloric acid 20% (HCl)			A	A
Hydrochloric acid 37% (HCl)	B/2/3	A	B/3	B/3
Hydrofluoric acid (HF)	C/5	C/5	C/5	C/5
Hydrogen peroxide	A	A	A	B/2
Iodine	A	A	C/1	B/1
Iodine bromide	C/2/4	C/2/4	C/4	C/2/4
Iodine chloride	C/2/4	C/2/4	C/4	C/2/4
Isoamyl alcohol			A	A
Isobutanol			A	A
Isooctane	A	A	A	A
Isopropanol	A	A	A	A
Isopropyl ether			B/4	B/4
Iso-propylamine	A	A	B/4	B/4
Lactic acid	A	A	C/1	A
Liquid ammonia	A	A		
2-Methoxyethanol	A	A	A	A
Methanol	A	A	A	A
Methoxybenzene (Anisol)			B/4	B/4
Methyl benzoate			B/1/4	B/4
Methyl chloride (Chloromethane)	A	A	B/4	B/4

Reagents	501	520	525	530
Methyl ethyl ketone (MEK)	A	B/4		
Methyl formate			A	A
Methyl iodide (Iodomethane)	A	A	B/4	B/4
Methyl methacrylate (MMA)	A	A	B/4	B/4
Methyl propyl ketone (2-Pentanone)			A	A
Methyl tert-butyl ether			B/4	B/4
Methylene chloride (Dichloromethane) (DCM)	A	B/2/4	B/4	B/2/4
Methylpentanone	B/4	B/4	A	A
Mineral oil (engine oil)			A	A
Monochloroacetic acid			B/1	A
N-Butylamine	B/4	B/4	B/4	B/4
Nitric acid 100%	B/2/3	B/3	C/3/4	C/2/3/4
Nitric acid 30-70%			B/4	B/2/4
Nitric acid dil. <30%	A	A	B/4	B/4
Nitrobenzene			B/4	B/4
Nitromethane	A	B/4	B/4	B/4
N-methyl-2-pyrrolidone (NMP)	A	A	A	A
Octane	A	A	A	A
Octanol	A	A	A	A
Oil (vegetable, animal)	A	A	B/4	B/4
Oil of turpentine			B/4	B/4
Oleic acid			B/1	A
Oxalic acid	A	A	C/1	A
Pentane	B/4	B/4	B/4	B/4
Peracetic acid			A	A
Perchloric acid 100%	B/2/3	B/3	B/4	B/4
Perchloric acid diluted	A	A	A	A
Perchloroethylene			B/4	B/4
Petrol benzene	A	A		
Petroleum			B/4	B/4
Petroleum ether / spirit	A	A	B/4	B/4
Phenol	A	A	A	A
Phenylethanol			B/4	B/4
Phenylhydrazine	A	A	B/1/4	B/4
Phosphine	A	A		
Phosphoric acid 100%	A	A	A	A
Phosphoric acid 85%			A	A
Piperidine			B/4	B/4
Potassium chloride	B/1	A	C/1	A
Potassium dichromate	A	A	C/1	B/1
Potassium fluoride	C/4/5	C/4/5		
Potassium hydroxide	B/1	B/1	C/1	A
Potassium iodide	A	A	C/1	A
Potassium permanganate	A	A	C/1	B/1
Potassium peroxydisulfate (persulfate)			C/1	B/1
Potassium sulfate			C/1	B/1
Propionic acid (Propanoic acid)			A	A

Reagents	501	520	525	530
Propronic acid	A	A		
Propylene glycol (Propane-1,2-diol)			A	A
Propylene oxide	A	A	A	A
Pyric acid (Trinitrophenol)	A	A	B/4	B/4
Pyridine	B/4	B/4	B/4	B/4
Pyruvic acid			B/1	A
Resorcin	B/4	B/4	C/1	A
Salicylaldehyde			A	A
Scintilation fluid			A	A
Silver acetate			C/1	C/1
Silver nitrate	A	B/1	C/1	A
Sodium acetate	A	A	C/1	A
Sodium chloride (kitchen salt)	B/1	A	C/1	A
Sodium dichromate			C/1	A
Sodium fluoride			C/1	B/1
Sodium hydroxide 30%			C/1	A
Sodium hydroxide	B/1	B/1		
Sodium hypochlorite	A	A	C/1	B/4
Sodium thiosulfate	A	A	C/1	A
Sulfochromic acid 100%	B/2/3	B/2/3		
Sulfonitric acid 100%	B/2/3	B/2/3	B/3/4	B/2/3/4
Sulfur dioxide	B/4	B/4	B/4	B/4
Sulfuric acid 100%	B/2/3	B/2		
Sulfuric acid 98%			B/4	B/2/4
1,1,2-Trichlortrifluoroethane	B/4	B/4	B/4	B/4
Tartaric acid			C/1	A
Terebentine oil	A	A		
Tetrachlorethylene	B/4	B/4	B/4	B/4
Tetrahydrofuran (THF)	B/2/4	B/2/4	B/4	B/2/4
Tetramethylammonium hydroxide			C/1/4	B/4
Tetramin	A	A		
Toluene	A	B/4	B/4	B/4
Trichlorethylene	B/4	B/4	B/4	B/4
Trichloroacetic acid	A	A	B/1/4	B/4
Trichlorobenzene			B/4	B/4
Trichloroethane			B/4	B/4
Trichloromethane (Chloroform)	B/4	B/4	B/4	B/4
Triethanolamine			A	A
Triethylene glycol			A	A
Trifluoroacetic anhydride (TFAA)	B/3	B/3	B/4	B/4
Trifluoroacetic acid (TFA)	B/3	B/3		
Trifluoromethane (Fluoroform)			B/4	B/4
Urea			C/1	A
Xylene	A	B/4	B/4	B/2/4
Zinc chloride 10%			C/1	A
Zinc sulfate 10%			C/1	A

Code explanations (501 / 520)

A = Good resistance
B = Acceptable with limitations
C = Not recommended

1 = Possible crystallisation - blockage (do not let dry plunger/barrel together).
2 = Swell of plunger protection layer, possible peeling.
3 = Acid vapours (better resistance with lower concentration). Do not leave instrument on bottle.
4 = Risk of softening or discoloration of external parts through vapours. Do not leave instrument on bottle.
5 = Chemical degradation of glass parts (plunger/barrel).

Code explanations (525 / 530)

A = Good resistance
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1 = Possible crystallisation - blockage or possible coating peeling (do not let dry plunger/barrel together).
2 = Swell of plunger protection layer, possible peeling.
3 = Acid vapours (better resistance with lower concentration). Do not leave instrument on bottle.
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5 = Chemical degradation of glass parts (plunger/barrel).