

BOTTLE TOP DISPENSER

Chemical Compatibility Chart



Bottle Top Dispenser

Smart, Simple & Efficient Liquid Handling

Chemicals from A to Z

The following list includes most frequently used chemicals.

CODE EXPLANATIONS

G= Good resistance

L= Acceptable with limitations

N= Not recommended

1= Possible crystallisation- blockage/ damage of PTFE Piston

2= Acid vapours (better resistance with lower concentration).

3= Risk of damage, softening or discoloration of external parts through vapours. (Rinse the instrument in the rinse mode otherwise do not leave instrument on bottle.)

4= Chemical degradation of glass barrel

Reagent Name	Gravity Operated	Spring Operated	
		Platinum-Iridium	Tantalum
A			
Acetaldehyde (Ethanal)	G	G	G
Acetic Acid, ≤ 96%	L/1	L/1	L/1
Acetic Acid (Glacial), 100%	L/1/3	L/1/3	L/1/3
Acetic Anhydride	L/3	L/3	L/3
Acetone (Propanone)	L/3	L/3	L/3
Acetonitrile (MECN)	L/3	L/3	L/3
Acetophenone	L/1/3	L/1/3	L/1/3
Acetyl Chloride	L/1/3	L/1/3	L/1/3
Acetylacetone	G	G	G
Acrylic Acid	G	G	G
Acrylonitrile	L/3	L/3	L/3
Adipic Acid	G	G	G
Allyl Alcohol	G	G	G
Aluminium Chloride	G	G	G
Amino Acids	G	G	G
Ammonia, ≤ 20%	L/3	L/3	L/3
Ammonia, 20-30%	L/3	L/3	L/3
Ammonium Chloride	G	G	G
Ammonium Fluoride	G	G	G
Ammonium Sulfate	G	G	G
Amyl Alcohol (Pentanol)	G	G	G
Amyl Chloride (Chloropentane)	L/1/3	L/1/3	L/1/3
Aniline	G	G	G
n-Amyl Acetate	L/3	L/3	L/3
B			
Barium Chloride	G	G	G
Benzaldehyde	G	G	G
Benzene (Benzol)	L/3	L/3	L/3
Benzine (Petroleum benzin), bp 70-180 °C	G	G	G
Benzoyl Chloride	L/3	L/3	L/3
Benzyl Alcohol	G	G	G

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Reagent Name	Gravity Operated	Spring Operated	
		Platinum-Iridium	Tantalum
Benzylamine	G	G	G
Benzylchloride	L/3	L/3	L/3
Boric Acid, ≤ 10%	G	G	G
Bromine	N/1/3	N/1/3	N/1/3
Bromobenzene	L/3	L/3	L/3
Bromonaphthalene	G	G	G
Butanediol	G	G	G
1-Butanol	G	G	G
n-Butyl Acetate	L/3	L/3	L/3
Butyl Methyl Ether	L/3	L/3	L/3
Butylamine	L/3	L/3	L/3
Butyric Acid	L/3	L/3	L/3
C			
Calcium Carbonate	L/1	L/1	L/1
Calcium Chloride	G	G	G
Calcium Hydroxide	L/1	L/1	L/1
Calcium Hypochlorite	L/1	L/1	L/1
Carbon Disulfide	L/3	L/3	L/3
Carbon Tetrachloride	L/3	L/3	L/3
Chlorine Dioxide	L/1/3	L/1/3	L/1/3
Chloro Naphthalene	L/3	L/3	L/3
Chloroacetaldehyde, ≤ 45%	G	G	G
Chloroacetic Acid	G	G	G
Chloroacetone	L/3	L/3	L/3
Chlorobenzene	L/3	L/3	L/3
Chlorobutane	L/3	L/3	L/3
Chloroethanol	L/3	L/3	
Chloroform	L/3	L/3	L/3
Chromic Acid, ≤ 50%	L/2/3	L/2/3	L/2/3
Chromosulfuric Acid, 100%	N/1/2/3	N/1/2/3	N/1/2/3
Citric Acid	G	G	G
Copper Sulfate	G	G	G
Cresol	G	G	G
Cumene (Isopropyl Benzene)	L/3	L/3	L/3
Cyclohexane	L/3	L/3	L/3
Cyclohexanone	L/3	L/3	L/3
Cyclopentane	L/3	L/3	L/3
D			
Decane	G	G	G
1-Decanol	G	G	G
Dibenzyl Ether	L/3	L/3	L/3
Dichloroacetic Acid	G	G	G
Dichlorobenzene	G	G	G
Dichloroethane (1,2-dichloroethane)	G	G	G
Dichloroethylene	L/3	L/3	L/3
Dichloromethane (DCM)	L/1/3	L/1/3	L/1/3

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Reagent Name	Gravity Operated	Spring Operated	
		Platinum-Iridium	Tantalum
Diesel Oil (Heating oil), bp 250-350 °C	G	G	G
Diethanolamine	G	G	G
Diethyl Ether	L/3	L/3	L/3
Diethylamine	L/3	L/3	L/3
1,2-Diethylbenzene	L/3	L/3	L/3
Diethylene Glycol	G	G	G
Dimethyl Sulfoxide (DMSO)	L/3	L/3	L/3
Dimethylaniline	G	G	G
Dimethylformamide (DMF)	L/3	L/3	L/3
1,4-Dioxane (Diethylene Dioxide)	L/3	L/3	L/3
Diphenyl Ether	L/3	L/3	L/3
Di (2-ethylhexyl) Peroxydicarbonate	L/3	L/3	
E			
Essential Oil	L/1	L/1	L/1
Ethanol	G	G	G
Ethanolamine	L/3	L/3	L/3
Ether	L/3	L/3	L/3
Ethyl Acetate	L/3	L/3	L/3
Ethylbenzene	L/3	L/3	L/3
Ethylene Chloride	L/3	L/3	L/3
Ethylene Diamine	G	G	G
Ethylene Glycol	G	G	G
F			
Fluoroacetic Acid	L/3	L/3	L/3
Formaldehyde (Formalin)	G	G	G
Formamide	L/3	L/3	L/3
Formic Acid	G	G	G
G			
Gamma-butyrolactone	G	G	
Glycerin, <40%	G	G	G
Glycol (Ethylene glycol)	G	G	G
Glycolic Acid, ≤ 50%	G	G	G
H			
Heating Oil (Diesel oil), bp 250-350 °C	G	G	G
Heptane	G	G	G
Hexane	G	G	G
Hexanoic Acid	G	G	G
Hexanol	G	G	G
Hydriodic Acid, ≤ 57%	L/3	L/3	L/3
Hydrobromic Acid	G	G	G
Hydrochloric Acid, ≤ 20%	G	G	G
Hydrochloric Acid, 20-37%	L/1/2/3	L/1/2/3	L/1/2/3
Hydrofluoric Acid (HF)	N/4	N/4	N/4
Hydrogen peroxide, ≤ 35%	L/1	N	L/1
I			
Iodine	L/1	L/1	L/1

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Reagent Name	Gravity Operated	Spring Operated	
		Platinum-Iridium	Tantalum
Iodine Bromide	N/1/3	N/1/3	N/1/3
Iodine Chloride	N/1/3	N/1/3	N/1/3
Isoamyl Alcohol	G	G	G
Isobutanol	G	G	G
Isooctane	G	G	G
Isopropanol (2-Propanol)	G	G	G
Isopropyl Ether	L/3	L/3	L/3
L			
Lactic Acid	G	G	G
M			
Methanol	G	G	G
Methoxybenzene (Anisol)	L/3	L/3	L/3
Methyl Benzoate	L/3	L/3	L/3
Methyl Chloride (Chloromethane)	L/3	L/3	L/3
Methyl Ethyl Ketone (MEK/Butanone)	L/3	L/3	L/3
Methyl Formate	G	G	G
Methylene Chloride (Dichloromethane) (DCM)	L/3	L/3	L/3
Methyl Propyl Ketone (2-Pentanone)	G	G	G
Methyl Tert-butyl Ether	L/3	L/3	L/3
Mineral Oil (Engine oil)	G	G	G
Monochloroacetic acid	G	G	G
N			
Nitric Acid, ≤ 30%	G	G	G
Nitric Acid, 30-70%	L/1/3	L/1/3	L/1/3
Nitric Acid, 100%	N/2	N/2	N/2
Nitrobenzene	L/3	L/3	L/3
O			
Oil of Turpentine	L/3	L/3	L/3
Oleic Acid	G	G	G
Oxalic Acid	G	G	G
P			
n-Pentane	L/3	L/3	L/3
Peracetic Acid	G	G	G
Perchloric Acid, 100%	L/3	L/3	L/3
Perchloric Acid Diluted	G	G	G
Perchloroethylene	L/3	L/3	L/3
Petroleum, bp 180-220 °C	L/3	L/3	L/3
Petroleum Ether, bp 40-70 °C	L/3	L/3	L/3
Phenol	G	G	G
Phenylethanol	G	G	G
Phenylhydrazine	L/3	L/3	L/3
Phosphoric Acid, ≤ 85%	G	G	G
Phosphoric Acid, 85%+Sulfuric acid, 98%, 1:1	G	G	G
Piperidine	L/3	L/3	L/3
Potassium Chloride	G	G	G

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Reagent Name	Gravity Operated	Spring Operated	
		Platinum-Iridium	Tantalum
Potassium Dichromate	G	G	G
Potassium Hydroxide	G	G	L
Potassium Iodide	G	G	G
Potassium Permanganate	L/1	L/1	L/1
Potassium Sulfate	L/1	L/1	L/1
Propionic Acid (Propanoic Acid)	G	G	G
Propylene Glycol (Propane 1,2 diol)	G	G	G
Picric Acid (Trinitrophenol)	L/3	L/3	L/3
Pyridine	L/3	L/3	L/3
Pyruvic Acid	G	G	G
S			
Salicyl Aldehyde	G	G	G
Scintillation Fluid	G	G	G
Silver Acetate	N/1	N/1	N/1
Silver Nitrate	G	G	G
Sodium Acetate	G	G	G
Sodium Chloride	G	G	G
Sodium Dichromate	G	G	G
Sodium Hydroxide, ≤ 30%	L/1	L/1	N
Sodium Hypochlorite	L/3	L/3	L/3
Sulfonitric Acid, 100% (H ₂ SO ₄ /HNO ₃)(1:1)	L/1/2/3	L/1/2/3	L/1/2/3
Sulfur Dioxide	L/3	L/3	L/3
Sulfuric Acid, 10%	G	G	G
Sulfuric Acid, (10-75%)	L/1/3	L/1/3	L/1/3
T			
1,1,2-Trichlorotrifluoroethane (CFC-113)	L/3	L/3	L/3
Tartaric Acid	G	G	G
Tetrachloroethylene/ Methylene	L/3	L/3	L/3
Tetrahydrofuran (THF)	L/1/3	L/1/3	L/1/3
Toluene	L/3	L/3	L/3
Trichloroacetic Acid	L/3	L/3	L/3
Trichlorobenzene	L/3	L/3	L/3
Trichloroethane	L/3	L/3	L/3
Trichloroethylene	L/3	L/3	L/3
Triethanolamine	G	G	G
Triethylene Glycol	G	G	G
Trifluoroacetic Anhydride (TFAA)	L/3	L/3	L/3
U			
Urea	G	G	G
X			
Xylene	L/1/3	L/1/3	L/1/3
Z			
Zinc chloride, ≤ 10%	G	G	L
Zinc sulfate, ≤ 10%	G	G	G