

Thomson SINGLE StEP Filter Vials Solvent Compatibility Chart



Solvent / Mobile Phase	HOUSINGS	FILTERS				
	PP (polypropylene)	PTFE (polytetrafluoroethylene)	PVDF (polyvinylidene fluoride)	PES (polyether sulfone)	NYL (nylon)	
Acetic Acid (glacial) <i>acid, organic</i>	L	R	R	R	N	
Acetone <i>ketone</i>	R	R	N	N	R	
Acetonitrile (ACN) <i>nitrile</i>	R	R	L	N	R	
Alconox, 1% <i>surfactant/detergent</i>	L	L	L	L	L	
Ammonium Hydroxide <i>caustic</i>	L	R	R	N	L	
Ammonium Sulfate (saturated) <i>salt, aqueous solution</i>	R	R	N	L	R	
Amyl Acetate <i>ester</i>	L	R	R	R	L	
Amyl Alcohol <i>alcohol</i>	R	R	R	R	L	
Benzene <i>HC, aromatic</i>	N	R	R	N	R	
Benzyl Alcohol <i>HC aromatic/alcohol</i>	N	R	R	L	L	
Boric Acid (aqueous solution) <i>acid, inorganic</i>	R	R	L	R	R	
Butyl Acetate <i>ester</i>	L	R	L	N	R	
Butyl Alcohol <i>alcohol</i>	R	R	R	R	R	
Carbon Tetrachloride <i>HC, halogenated</i>	N	R	R	N	L	
Cellosolve (ethyl) <i>glycol ether</i>	R	R	L	R	R	
CHAPS (aqueous solution) <i>surfactant/detergent</i>	L	L	L	L	L	
Chloroform <i>HC, halogenated</i>	N	R	R	N	N	
Cyclohexanone <i>ketone</i>	N	R	N	N	R	
Diethyl Pyrocarbonate, 0.2% <i>carboxylic anhydride</i>	L	L	L	L	L	
Dimethyl Sulfoxide (DMSO) <i>sulfoxide</i>	R	R	N	N	R	
Dimethylacetamide <i>amide</i>	R	R	N	N	N	
Dimethylformamide <i>amide</i>	R	R	N	L	R	
Dioxane <i>ether</i>	R	R	R	L	R	
Ethers <i>ether</i>	N	R	R	L	R	
Ethyl Acetate <i>ester</i>	L	R	R	N	R	
Ethyl Alcohol <i>alcohol</i>	R	R	R	R	L	
Ethylene Glycol <i>glycol</i>	R	R	R	R	R	

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	PP (polypropylene)	PTFE (polytetrafluoroethylene)	PVDF (polyvinylidene fluoride)	PES (polyether sulfone)	NYL (nylon)	
Formaldehyde <i>aldehyde</i>	R	R	R	L	R	
Formic Acid, 50% <i>acid, organic</i>	R	R	R	L	N	
Fluorocarbon (TF or PCA) <i>HC, halogenated</i>	R	R	R	L	R	
Gasoline <i>HC</i>	N	R	R	R	R	
Glycerine (Glycerol) <i>glycol</i>	R	R	R	R	R	
Guanidine Hydrochloride, 6M <i>salt, aqueous solution</i>	L	R	L	L	L	
Guanidine Thiocyanate, 5M <i>salt, aqueous solution</i>	L	R	L	L	L	
Helium <i>gas</i>	R	R	L	L	R	
Hexane <i>HC, aliphatic</i>	N	R	R	R	R	
Hydrochloric Acid, 1N (HCL) <i>acid, inorganic</i>	R	R	R	R	R	
Hydrochloric Acid, 6N (HCL) <i>acid, inorganic</i>	L	R	L	R	L	
Hydrochloric Acid, conc. (HCL) <i>acid, inorganic</i>	N	R	N	L	N	
Hydrofluoric Acid <i>acid, inorganic</i>	N	R	N	N	N	
Hydrogen <i>gas</i>	R	R	R	L	R	
Hydrogen Peroxide, 3% <i>peroxide</i>	R	R	R	L	R	
Hydrogen Peroxide, 30% <i>peroxide</i>	L	R	R	L	L	
Hydrogen Peroxide, 90% <i>peroxide</i>	R	R	R	L	N	
HYPON (aqueous solution) <i>salt, aqueous solution</i>	R	R	R	L	R	
Isobutyl Alcohol <i>alcohol</i>	R	R	R	R	L	
Isopropyl Acetate <i>ester</i>	L	R	R	N	R	
Isopropyl Alcohol <i>alcohol</i>	R	R	R	R	L	

R = Recommended. No significant change observed in flow rate or bubble point of the membrane, nor visible indication of chemical attack.

L = Limited Recommended Use. Moderate changes in physical properties. The filter may be suitable for short term, non-critical use.

N = Not Recommended. The membrane may be unstable.

- = Insufficient Data. Information is not available. Trial testing is recommended.

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Kerosene <i>HC</i>	L	L	R	R	R
Lactic Acid, 50% <i>acid, organic/alcohol</i>	R	R	L	L	L
Lubrol PX (aqueous solution) <i>surfactant/detergent</i>	L	L	L	L	L
Methyl Ethyl Ketone (MEK) <i>ketone</i>	R	R	N	N	R
Mercaptoethanol, 0.1M <i>alcohol/mercaptan</i>	L	L	L	L	L
Methyl Acetate <i>ester</i>	L	R	N	N	R
Methyl Alcohol <i>alcohol</i>	R	R	R	R	L
Methylene Chloride <i>HC, halogenated</i>	N	R	N	N	L
Methyl Isobutyl Ketone (MIBK) <i>ketone</i>	N	R	N	N	R
Mineral Spirits <i>HC</i>	N	R	R	R	R
Nitric Acid, 6N <i>acid, inorganic</i>	L	R	R	R	N
Nitric Acid (concentrated) <i>acid, inorganic</i>	N	L	N	L	N
Nitrobenzene <i>HC, aromatic</i>	N	R	R	L	R
Nitrogen <i>gas</i>	L	R	R	L	R
Nonidet-P40 (aqueous solution) <i>surfactant/detergent</i>	L	L	L	L	L
Ozone <i>gas</i>	N	R	R	L	N
Paraldehyde <i>aldehyde</i>	L	R	L	L	R
Pentane <i>HC, aliphatic</i>	N	R	R	R	R
Petroleum Ether <i>ether</i>	L	R	R	L	R
Phenol (aqueous solution) <i>phenol</i>	N	R	R	L	N
Potassium Hydroxide, 3N <i>caustic</i>	R	R	R	L	R
Pyridine <i>amine</i>	R	R	N	N	L
Silicone Oils <i>silicone</i>	R	R	R	L	R

Solvent / Mobile Phase	HOUSINGS	FILTERS			
	PP (polypropylene)	PTFE (polytetrafluoroethylene)	PVDF (polyvinylidene fluoride)	PES (polyether sulfone)	NYL (nylon)
Sodium Carbonate (aqueous solution) <i>salt, aqueous solution</i>	R	R	R	L	L
Sodium Chloride (aqueous solution) <i>salt, aqueous solution</i>	R	R	R	L	R
Sodium Dodecyl Sulfate <i>surfactant/detergent</i>	L	L	L	L	L
Sodium Hydroxide, 3N <i>caustic</i>	R	R	R	R	R
Sodium Hydroxide (concentrated) <i>caustic</i>	R	R	R	R	N
Sulfuric Acid (concentrated) <i>acid, inorganic</i>	N	R	L	N	N
TCA (aqueous solution) <i>acid, organic</i>	R	R	R	L	L
Tetrahydrofuran (THF) <i>ether</i>	N	R	N	L	R
Toluene <i>HC, aromatic</i>	N	R	R	R	R
Trichloroethane <i>HC, halogenated</i>	N	R	L	N	L
Trichloroethylene <i>HC, halogenated</i>	N	R	R	N	L
Tween 20 (aqueous solution) <i>surfactant/detergent</i>	L	R	L	L	L
Urea, 8M <i>salt, aqueous solution</i>	R	R	R	L	R
Water (Brine) <i>salt, aqueous solution</i>	R	R	R	L	R
Xylene <i>HC, aromatic</i>	N	R	R	L	R

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