

Appendix

Chemical Compatibility

	Housing Materials	Filter Materials			
	PP	PTFE	PVDF	PES	nylon
Acetic Acid (glacial) <i>acid, organic</i>	TST	R	R	R	NR
Acetone <i>ketone</i>	R	R	NR	GNR	R
Acetonitrile (ACN) <i>nitrile</i>	R	R	LTD	NR	R
Alconox, 1% <i>surfactant/detergent</i>	ND	TST	TST	ND	TST
Ammonium Hydroxide <i>caustic</i>	TST	GR	R	NR	TST
Ammonium Sulfate (saturated) <i>salt, aqueous solution</i>	R	GR	NR	ND	R
Amyl Acetate <i>ester</i>	TST	R	R	GR	TST
Amyl Alcohol <i>alcohol</i>	R	R	R	GR	TST
Benzene <i>HC, aromatic</i>	NR	R	R	NR	R
Benzyl Alcohol <i>HC aromatic/alcohol</i>	NR	R	R	ND	TST
Boric Acid (aqueous solution) <i>acid, inorganic</i>	R	GR	TST	GR	R
Butyl Acetate <i>ester</i>	TST	GR	TST	GNR	R
Butyl Alcohol <i>alcohol</i>	R	GR	R	GR	R
Carbon Tetrachloride <i>HC, halogenated</i>	NR	GR	R	GNR	TST
Cellosolve (Ethyl) <i>glycol ether</i>	R	GR	ND	GR	R
CHAPS (aqueous solution) <i>surfactant/detergent</i>	ND	TST	ND	ND	TST
Chloroform <i>HC, halogenated</i>	NR	R	R	GNR	NR
Cyclohexanone <i>ketone</i>	NR	R	NR	GNR	R
Diethyl Pyrocarbonate, 0.2% <i>carboxylic anhydride</i>	ND	ND	TST	ND	ND
Dimethyl Sulfoxide (DMSO) <i>sulfoxide</i>	R	R	NR	NR	R
Dimethylacetamide <i>amide</i>	R	GR	NR	NR	NR
Dimethylformamide <i>amide</i>	R	GR	NR	ND	R
Dioxane <i>ether</i>	R	GR	R	ND	R

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Ethers <i>ether</i>	NR	R	R	ND	R
Ethyl Acetate <i>ester</i>	TST	R	R	GNR	R
Ethyl Alcohol <i>alcohol</i>	R	R	R	GR	TST
Ethylene Glycol <i>glycol</i>	R	R	R	GR	R
Formaldehyde <i>aldehyde</i>	R	R	R	ND	R
Formic Acid, 50% <i>acid, organic</i>	R	GR	R	ND	NR
Freon (TF or PCA) <i>HC, halogenated</i>	R	GR	R	ND	R
Gasoline <i>HC</i>	NR	R	R	GR	R
Glycerine (Glycerol) <i>glycol</i>	R	GR	R	GR	R
Guanidine Hydrochloride, 6M <i>salt, aqueous solution</i>	ND	GR	ND	ND	ND
Guanidine Thiocyanate, 5M <i>salt, aqueous solution</i>	ND	GR	ND	ND	ND
Helium <i>gas</i>	R	R	TST	ND	R
Hexane <i>HC, aliphatic</i>	NR	R	R	GR	R
Hydrochloric Acid, 1N (HCL) <i>acid, inorganic</i>	GR	R	R	GR	GR
Hydrochloric Acid, 6N (HCL) <i>acid, inorganic</i>	TST	R	TST	GR	TST
Hydrochloric Acid, conc. (HCL) <i>acid, inorganic</i>	NR	R	NR	ND	NR
Hydrofluoric Acid <i>acid, inorganic</i>	NR	R	NR	NR	NR
Hydrogen <i>gas</i>	R	R	R	ND	R
Hydrogen Peroxide, 3% <i>peroxide</i>	R	R	R	ND	R
Hydrogen Peroxide, 30% <i>peroxide</i>	TST	R	R	ND	TST
Hydrogen Peroxide, 90% <i>peroxide</i>	R	R	R	ND	NR
HYPO (aqueous solution) <i>salt, aqueous solution</i>	R	GR	R	ND	R
Isobutyl Alcohol <i>alcohol</i>	R	R	R	GR	TST

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

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Pyridine <i>amine</i>	R	GR	NR	NR	TST
Silicone Oils <i>silicone</i>	R	GR	R	ND	R
Sodium Carbonate (aqueous solution) <i>salt, aqueous solution</i>	R	R	R	ND	TST
Water (Brine) <i>salt, aqueous solution</i>	R	R	R	ND	R
Sodium Chloride (aqueous solution) <i>salt, aqueous solution</i>	R	R	R	ND	R
Sodium Dodecyl Sulfate <i>surfactant/detergent</i>	ND	ND	ND	ND	ND
Sodium Hydroxide, 3N <i>caustic</i>	R	R	R	R	R
Sodium Hydroxide (concentrated) <i>caustic</i>	R	R	R	R	NR
Sulfuric Acid (concentrated) <i>acid, inorganic</i>	NR	R	TST	GNR	NR
Tetrahydrofuran (THF) <i>ether</i>	NR	GR	NR	ND	R
Toluene <i>HC, aromatic</i>	NR	R	R	R	R
TCA (aqueous solution) <i>acid, organic</i>	R	GR	R	ND	TST
Trichloroethane <i>HC, halogenated</i>	NR	R	TST	GNR	TST
Trichloroethylene <i>HC, halogenated</i>	NR	R	R	GNR	TST
Tween 20 (aqueous solution) <i>surfactant/detergent</i>	ND	R	TST	ND	TST
Urea, 8M <i>salt, aqueous solution</i>	R	GR	R	ND	R
Xylene <i>HC, aromatic</i>	NR	R	R	ND	R

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Compound Compatibility

Filter to be used	PVDF	PES	PTFE	PES	PVDF
	.2µm	.2µm	.2µm	.45µm	.45µm
5-Fluorouracil			●		
(18F) Fluoromisonidazole, Misiomidazole	●				
Acebutolol		●			
Acetylsalicylic acid		●			
Alpha1-Proteinase Inhibitor (Human)					●
Alprenolol		●			
Amiloride		●			
Amphotericin B for Injection USP					●
Atenolol		●			
Azathioprine				●	●
Azodicarbonamide		●			
Bleomycin Sulfate			●		
Caffeine		●			
Cetirizine				●	●
Chlorothiazide		●			
Chloramphenicol		●			
Cimetidine		●			
Ciprofloxacin		●			
Cisplatin, Cisplatin Injection			●		
Cyclosporine A	●				
Cytarabine			●		
Daunorubicin			●		
DE-310		●			
Diclofenac					●
Enalapril		●			
Ethionamide			●		
Factor IX Complex Heat-Treated					●
Gatifloxacin				●	●
Hydrochlorothiazide		●			