

► Centrifuge Chemical Resistance Table

Chemical, Concentration	Centrifugeware												
	Tubes						O-rings			Closures			
	FEP	PPCO	PC	PE	PP	PSF	PS	SILI	Viton®	PP	Tefzel® ETE	PE	PPE
1-(4-Chlorophenyl)ethanone, pure	S	S	M	S	M	M	U	U	U	M	S	S	-
1,3-Butadiene, pure	S	U	U	U	U	U	U	U	S	U	S	U	U
1,4-Dioxane, pure	S	M	U	M	M	U	U	U	U	M	M	M	U
1:3 Mixture Of Nitric And Hydrochloric Acids, pure	S	U	U	U	U	U	U	U	M	U	S2	U	U
1-Pentanol, pure	S	S	M	M	M	M	S2	U	S	M	S	M	M
1-Phenylethanone, pure	S	M	U	M	M	U	U	U	U	M	S	M	U
1-Undecanol, pure	S	S2	M	S	M	M	M	-	S	M	S2	S	-
2,2,4-Trimethylpentane, pure	S	U	U	U	U	M	U	U	-	U	S2	U	-
2,2'-Oxybispropane, pure	S	U	U	U	U	U	U	U	U	U	S2	U	-
2,4,6-Trinitrophenol, pure	S	M	U	U	M	U	U	U	S	M	M	U	S2
2-Hydroxy-1,2,3-Propanetricarboxylic Acid Tributyl Ester, pure	S	M	U	M	M	U	U	U	U	M	S2	M	U
2-Hydroxybenzaldehyde, pure	S	S2	M	S	M	M	U	U	M	M	U	S	-
2-Isopropoxypropane, pure	S	U	U	U	U	U	U	U	U	U	S2	U	-
2-Methoxyethanol, pure	S	S	U	S	M	U	U	U	U	M	S2	S	-
2-Methoxyethyl Oleate, pure	S	S2	U	S	M	U	U	U	-	M	S	S	-
2-Propanol, pure	S	S	U	S	S	M	S2	S2	S	S	S	S	S2
2-Propanone, pure	S	M	U	U	M	U	U	U	U	M	M	U	U
2-Propenenitrile, pure	S	U	U	S	U	U	U	U	U	U	S2	S	U
3-Phenyl-2-propenal, pure	S	U	M	U	U	M	U	U	U	U	S2	U	-
4'-Chloroacetophenone, pure	S	S	M	S	M	M	U	U	U	M	S	S	-
Acetaldehyde, pure	S	M	U	U	M	U	U	U	U	M	M	U	U
Acetic Acid Benzyl Ester, pure	S	S2	U	M	S	U	U	U	S	S	S2	M	-
Acetic Acid Phenylmethyl Ester, pure	S	S2	U	M	S	U	U	U	S	S	S2	M	-
Acetic Anhydride, pure	S	M	U	U	M	U	U	U	U	M	S	U	U
Acetone, pure	S	M	U	U	M	U	U	U	U	M	S2	U	U
Acetonitrile, pure	S	U	U	S	M	U	U	U	U	M	S2	S	U
Acetophenone, pure	S	M	U	M	M	U	U	U	U	M	S	M	U
Acrylonitrile, pure	S	U	U	S	U	U	U	U	U	U	S2	S	U
Adipic Acid, pure	S	S	S	S	S	S	S	-	S2	S	S	S	-
Alanine, pure	S	S	S	S	S	S	S	S2	S	S	S	S	S
Allyl Alcohol, pure	S	S	M	U	S	M	U	-	S	S	S2	U	-
Aluminum Chloride, pure	S	S	S2	S	S	S	S	U	S	S	S	S	S
Aluminum Hydrate, pure	S	S	U	S	S	M	M	S2	S	S	S	S	S
Aluminum Hydroxide, pure	S	S	U	S	S	M	M	S2	S	S	S	S	S

Key:

S = Satisfactory

S1 = Satisfactory, may cause discoloration

S2 = Satisfactory below 26°C only

M = Marginal; may be satisfactory for use in a centrifuge depending on length of exposure and speed. Testing under operation conditions is suggested before actual run.

U = Unsatisfactory; not recommended

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Chemical, Concentration	Centrifugeware												
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	FEP	PPCO	PC	PE	PP	PSF	PS	SILI	Viton®	PP	Tefzel® ETFE	PE	PPE
Aluminum Salts, pure	S	S	M	S	S	M	S2	U	M	S	S	S	S2
Aluminum Trihydrate, pure	S	S	U	S	S	M	M	S2	S	S	S	S	S
Amino Acids, pure	S	S	S	S	S	S	S	S2	S	S	S2	S	S
Ammonia, pure	S	S	U	S	S	M	S2	U	U	S	S	S	M
Ammonium Chloride, pure	S	S	S2	S	S	S	S	S2	S2	S	S	S	S2
Ammonium Glycolate, pure	S	S2	M	S	S	M	S	–	S2	S	S	S	–
Ammonium Oxalate, pure	S	S2	S	S	S	S	S	–	–	S	S	S	–
Ammonium Salts, pure	S	S	M	S	S	M	M	S2	M	S	S	S	S2
Amyl Alcohol, pure	S	S	M	M	M	S2	U	S	M	S	M	M	M
Amyl Chloride, pure	S	U	U	U	U	U	U	U	M	U	S	U	U
Aniline, pure	S	U	U	U	M	U	U	U	U	M	M	U	U
Aqua Regia, pure	S	U	U	U	U	U	U	U	M	U	S2	U	U
Arsenic Acid, pure	S	M	S	S	S	S	S	S2	S	S	S	S	M
Benzaldehyde, pure	S	M	U	U	M	U	U	U	U	M	M	U	U
Benzenamine, pure	S	U	U	U	M	U	U	U	U	M	M	U	U
Benzene, pure	S	U	U	U	U	U	U	U	S	U	S2	U	U
Benzol, pure	S	U	U	U	U	U	U	U	S	U	S2	U	U
Benzyl Acetate, pure	S	S2	U	M	S	U	U	U	S	S	S2	M	–
Benzyl Alcohol, pure	S	U	U	U	M	U	U	U	S	M	S	U	–
Boric Acid, pure	S	S	S	S	S	S	S	S2	S	S	S	S	S
Bromine, pure	S	U	U	U	U	U	U	U	U	U	S2	U	U
Bromoform, pure	S	U	U	U	U	U	U	U	S	U	M	U	–
Butadiene, pure	S	U	U	U	U	U	U	U	S	U	S	U	U
Butyl Acetate, pure	S	M	U	U	U	U	U	U	U	U	S2	U	U
Butyl Chloride, pure	S	U	U	U	U	U	U	U	–	U	S	U	U
Butyl Citrate, pure	S	M	U	M	M	U	U	U	U	M	S2	M	U
Butyric Acid, pure	S	U	U	U	U	M	U	U	M	U	S	U	–
Calcium Chloride, pure	S	S	S	S	S1	S	S	S2	S	S1	S	S	S
Calcium Hypochlorite, Saturated	S	S	U	S	S	M	S2	U	S	S	S	S	M
Carbazole, pure	S	S	U	S	S	U	S	–	–	S	S	S	–
Carbon Disulfide, pure	S	U	U	U	M	U	U	U	S	M	M	U	U
Carbon Tetrachloride, pure	S	U	U	U	U	U	U	U	S	U	S	U	U
Cedarwood Oil, pure	S	U	M	U	U	M	U	U	S	U	S2	U	–
Cellosolve® Acetate, pure	S	S2	U	S	M	U	U	U	U	M	S2	S	–
Chlorobenzene, pure	S	U	U	U	U	U	U	U	S	U	M	U	U
Chloroform, pure	S	U	U	U	U	U	U	U	S	U	M	U	U

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Cinnamaldehyde, pure	S	U	M	U	U	M	U	U	U	U	S2	U	-
Cinnamic Aldehyde, pure	S	U	M	U	U	M	U	U	U	U	S2	U	-
Cinnamon Oil, pure	S	M	M	U	U	M	U	U	U	U	S2	U	-
Copper Sulfate, pure	S	S	S	S	S	S	S	S2	M	S	S	S	S
Cresol, pure	S	M	U	U	U	U	U	U	U	U	S2	U	U
Cyanoethylene, pure	S	U	U	S	U	U	U	U	U	U	S2	S	U
Cyclohexane, pure	S	M	M	M	M	M	U	U	S2	M	S2	M	U
Cyclohexanone, pure	S	U	U	M	M	U	U	U	U	M	S	M	U
Cyclopentane, pure	S	U	U	U	U	U	U	U	S	U	S	U	U
Decahydronaphthalene, pure	S	U	U	M	U	U	U	U	S	U	S	M	U
Decalin, pure	S	U	U	M	U	U	U	U	S	U	S	M	U
Diacetone Alcohol, pure	S	M	U	S	M	U	M	U	U	M	S2	S	-
Diacetone, pure	S	M	U	U	S2	U	U	U	U	S2	S2	U	U
Dibutyl Phthalate, pure	S	M	M	U	M	M	U	U	M	M	M	U	U
Diethyl Benzene, pure	S	U	U	U	U	U	U	U	S	U	S2	U	-
Diethyl Ether, pure	S	U	U	U	U	U	U	U	U	U	S2	U	U
Diethyl Ketone, pure	S	M	U	U	M	U	U	U	M	M	M	U	U
Diethyl Malonate, pure	S	S	U	S	S	U	U	U	S	S	S	S	-
Diethylamine, pure	S	M	U	U	M	M	M	U	U	M	U	U	-
Diethylene Dioxide, pure	S	M	U	M	M	U	U	U	M	M	M	M	U
Diethylene Glycol Monoethyl Ether, pure	S	S	U	S	S	M	U	U	M	S	S	S	-
Diethylene Glycol, pure	S	S	M	S	S	M	S2	U	S	S	S	S	-
Diisopropyl Ether, pure	S	U	U	U	U	U	U	U	U	U	S2	U	-
Dimethyl Acetamide, pure	S	S	U	M	S	U	U	U	S	S2	M	-	
Dimethyl Formamide, pure	S	S	U	S	S	U	U	U	S	M	S	U	
Dimethyl Ketone, pure	S	M	U	U	M	U	U	U	U	M	M	U	U
Dimethylsulfoxide, pure	S	S	U	S	S	U	U	U	U	S	S2	S	S
Dioxane, pure	S	M	U	M	M	U	U	U	M	M	M	M	U
DIPE, pure	S	U	U	U	U	U	U	U	U	U	S2	U	-
Dipropylene Glycol, pure	S	S	M	S	S	M	S	U	S	S	S	S	S2
DMSO, pure	S	S	U	S	S	U	M	U	U	S	S2	S	S
Ether, pure	S	U	U	U	U	U	U	U	U	U	S2	U	U
Ethyl Acetate, pure	S	M	U	M	M	U	U	U	U	M	S2	M	U
Ethyl Alcohol, pure	S	S	U	M	S	S2	M	U	S	S	S	M	S
Ethyl Benzene, pure	S	U	U	U	U	U	U	U	S	U	M	U	U

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Ethyl Benzoate, pure	S	M	U	U	M	U	U	U	U	M	S2	U	U
Ethyl Butyrate, pure	S	M	U	M	M	U	U	U	U	M	S2	M	-
Ethyl Chloride, pure	S	U	U	U	U	U	U	U	S	U	S	U	U
Ethyl Cyanoacetate, pure	S	S	U	S	S	U	M	U	-	S	S	S	-
Ethyl Lactate, pure	S	S	U	S	S	U	U	U	U	S	S	S	-
Ethylene Chloride, pure	S	U	U	U	U	U	U	U	M	U	U	U	U
Ethylene Glycol Monomethyl Ether, pure	S	S	U	S	M	U	U	U	U	M	S2	S	-
Ethylene Glycol, pure	S	S	U	S	S	M	S	S2	S	S	S	S	S2
Ethylene Oxide, pure	S	U	U	U	M	U	U	U	U	M	S2	U	S2
EtO, pure	S	S	U	S	S	U	U	U	U	S	S	S	S2
Fatty Acids, Saturated, pure	S	S2	M	S	S	M	S2	U	S	S	S	S	S2
Fatty Acids, Unsaturated, pure	S	S2	M	S	S	M	M	U	S	S	S	S	S2
Fluorides, pure	S	S	S	S	S	S	M	U	M	S	S	S	S2
Formic Acid, pure	S	S2	U	M	S	M	U	U	M	S	S	M	S
Freon TF, pure	S	S2	M	S	M	M	U	U	M	M	S2	S	-
Fuel Oil No. 1, pure	S	M	S2	U	M	S2	U	U	S	M	S	U	U
Gasoline, pure	S	U	U	M	U	U	U	U	S	U	S	M	U
Glutaraldehyde Disinfectant, pure	S	S	M	S	S	M	M	U	M	S	S2	S	S
Glutaraldehyde, pure	S	S	M	S	S	M	M	U	U	S	S2	S	S
Glycerine, pure	S	S	S	S	S	S	S	S2	S	S	S	S	S
Glycerol, pure	S	S	S	S	S	S	S	S2	S	S	S	S	S
Hexane, pure	S	M	U	U	M	U	U	U	S	M	S2	U	U
Hydrated Alumina, pure	S	S	U	S	S	M	M	S2	S	S	S	S	S
Hydrazine, pure	S	U	U	U	U	U	U	U	S	U	U	U	-
Iodine Crystals, pure	S1	U	S1	U	S1	S1	S1	U	S	S1	S2	U	U
Isobutanol, pure	S	S	S2	S	S	S2	S2	S2	S	S	S	S	S
iso-Butyl Alcohol, pure	S	S	S2	S	S	S2	S2	S2	S	S	S	S	S
Isopropanol, pure	S	S	U	S	S	M	S2	S2	S	S	S	S	S2
Isopropyl Acetate, pure	S	M	U	M	M	U	U	U	U	M	S2	M	-
Isopropyl Alcohol, pure	S	S	U	S	S	M	S2	S2	S	S	S	S	S2
Isopropyl Benzene, pure	S	U	U	U	U	U	U	U	S	U	S2	U	-
Isopropyl Ether, pure	S	U	U	U	U	U	U	U	U	U	S2	U	-
Jet Fuel, pure	S	U	M	U	U	M	M	U	S	U	S2	U	M
Kerosene, pure	S	M	S2	U	M	S2	U	U	S	M	S	U	U
Lacquer Thinner, pure	S	U	U	U	U	U	U	U	U	U	S	U	U

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	FEP	PPCO	PC	PE	PP	PSF	PS	SILI	Viton®	PP	Tefzel® ETE	PE	PPE
L-alpha-amino Propionic Acid, pure	S	S	S	S	S	S	S	S2	S	S	S	S	S
Lead Acetate, pure	S	S	S	S	S	S	S	U	M	S	S	S	S
L-Tartaric Acid, pure	S	S2	S2	M	S	S	S	S2	S	S	S	M	S2
Magnesium Chloride, pure	S	S	S	S	S	S	S	S2	S	S	S	S	S
MEK, pure	S	S2	U	U	M	U	U	U	U	M	M	U	U
Mercuric Chloride, pure	S	S	S	S	S	S	S2	M	S	S	S	S	S
Methoxyethyl Oleate, pure	S	S2	U	S	M	U	U	U	—	M	S	S	—
Methyl Acetate, pure	S	M	U	U	M	U	U	U	U	M	S2	U	U
Methyl Alcohol, pure	S	S	M	M	S1	S2	U	S2	M	S1	S	M	S
Methyl Ethyl Ketone, pure	S	S2	U	U	M	U	U	U	U	M	M	U	U
Methyl Isobutyl Ketone, pure	S	M	U	U	S2	U	U	U	U	S2	S2	U	U
Methyl Propyl Ketone, pure	S	M	U	U	M	U	U	U	U	M	S2	U	U
Methylene Chloride, pure	S	U	U	U	U	U	U	U	S	U	U	U	U
Methyloxirane, pure	S	U	U	U	M	U	U	U	U	M	S	U	S2
Methyl-t-Butyl Ether, pure	S	U	U	U	U	U	U	U	M	U	S2	U	—
MIBK, pure	S	M	U	U	S2	U	U	U	U	S2	S2	U	U
Mineral Spirits, pure	S	U	U	U	U	U	M	U	S	U	S2	U	—
n-Butanol, pure	S	S	M	S	S	M	S2	U	S	S	S	S	M
n-Butyl Acetate, pure	S	M	U	M	U	U	U	U	U	U	S2	M	U
n-Butyl Alcohol, pure	S	S	M	S	S	M	S2	U	S	S	S	S	M
n-Decane, pure	S	U	U	M	M	M	U	U	S	M	S	M	—
n-Heptane, pure	S	U	U	U	U	M	U	U	S	U	S	U	U
Nitrobenzene, pure	S	U	U	U	M	U	U	U	U	M	S2	U	U
Nitrohydrochloric Acid, pure	S	U	U	U	U	U	U	U	M	U	S2	U	U
Nitromethane, pure	S	U	U	U	U	U	U	U	U	M	U	U	U
n-Octane, pure	S	S2	M	U	U	M	U	U	S	U	S	U	U
Oil, Cedarwood, pure	S	U	U	U	U	U	U	U	S	U	S2	U	—
Oil, Cinnamon, pure	S	M	M	U	U	M	U	U	U	U	S2	U	—
Oil, Mineral, pure	S	S2	S2	U	U	S2	M	S2	S	U	S	U	S2
Oil, Orange, pure	S	M	U	U	M	M	U	U	S	M	S	U	—
Oil, Pine, pure	S	M	U	U	M	U	U	U	S	M	S2	U	—
Orange Oil, pure	S	M	U	U	M	M	U	U	S	M	S	U	—
Orthoarsenic Acid, pure	S	M	S	S	S	S	S	S2	S	S	S	S	S2
Ozone, pure	S	S2	U	M	U	S	U	S2	S2	U	S	M	U
p-Chloroacetophenone, pure	S	S	M	S	M	M	U	U	U	M	S	S	—
p-Dichlorobenzene, pure	S	U	U	U	U	U	U	U	U	U	U	U	U

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Pentyl acetate, pure	S	M	U	S	M	U	U	U	U	M	S	S	U
Perchloric Acid, pure	U	M	U	U	M	U	U	U	S	M	M	U	M
Perchloroethylene, pure	S	U	U	U	U	U	U	U	S	U	S2	U	—
Petroleum, pure	S	M	M	U	U	S2	U	U	S	U	S	U	S2
Phenyl Methyl Ketone, pure	S	M	U	M	M	U	U	U	U	M	S	M	U
Phenylacrolein, pure	S	U	M	U	U	M	U	U	U	U	S2	U	—
Picric Acid, pure	S	M	U	U	M	U	U	U	S	M	M	U	S2
Pine Oil, pure	S	M	U	U	M	U	U	U	S	M	S2	U	—
Potassium Chloride, pure	S	S	S	S	S	S	S	S2	S	S	S	S	S
Potassium Permanganate, pure	S	S1	S1	S	S1	S1	S2	S2	S2	S1	S	S	S
Propane, pure	S	S	S	S	S	S	U	S2	S	S	S	S	M
Propionic Acid, pure	S	S2	U	M	M	M	M	—	—	M	M	M	—
Propylene Glycol, pure	S	S	M	S	S	M	S	S2	S	S	S	S	S2
Pyridine, pure	S	U	U	U	U	U	U	U	U	U	U	U	U
Salicylaldehyde, pure	S	S2	M	S	M	M	U	U	M	M	U	S	—
sec-Butanol, pure	S	S	S2	S	S	S2	S2	S2	S	S	S	S	S
sec-Butyl Alcohol, pure	S	S	S2	S	S	S2	S2	S2	S	S	S	S	S
Silicone Oil, pure	S	S	S	S	S	S	S2	U	S	S	S	S	S2
Silver Acetate, pure	S	S	S2	S	S	S	S	U	S	S	S	S	S
Silver Nitrate, pure	S	S1	S	S	S1	S	S	S2	S	S1	S	S	S1
Skydrol LD4 Aviation Hydraulic Fluid, pure	S	M	U	M	M	U	U	U	S	M	S	M	—
Soda Ash, pure	S	S	M	M	S1	S	S2	S2	S	S1	S	M	S
Sodium Acetate, pure	S	S	S2	S	S	S	S	U	U	S	S	S	S
Sodium Carbonate, pure	S	S	M	M	S1	S	S2	S2	S	S1	S	M	S
Sodium Dichromate, pure	S	S	S	S	S	S	M	S2	S	S	S	S	—
Stearic Acid, pure	S	S	M	M	S2	S2	S2	U	S	S2	S	M	S2
Sulfur Dioxide, pure	S	S	M	S	S	M	U	U	S2	S	S	S	U
Sulfur Salts, pure	S	U	U	M	M	M	U	U	M	M	S2	M	M
Tartaric Acid, pure	S	S2	S2	M	S	S	S	S2	S	S	S	M	S2
TCA, pure	S	S	U	S2	S	U	U	U	U	S	M	S2	S2
tert-Butanol, pure	S	S	M	S	S	M	S2	U	S	S	S	S	S
tert-Butyl Alcohol, pure	S	S	M	S	S	M	S2	U	S	S	S	S	S
Tetrahydrofuran, pure	S	M	U	U	U	U	U	U	U	U	U	U	U
THF, pure	S	M	U	U	U	U	U	U	U	U	U	U	U
Thionyl Chloride, pure	S	U	U	U	U	U	U	—	M	U	S2	U	—

Key:

S = Satisfactory

S1 = Satisfactory, may cause discoloration

S2 = Satisfactory below 26°C only

M = Marginal; may be satisfactory for use in a centrifuge depending on length of exposure and speed. Testing under operation conditions is suggested before actual run.

U = Unsatisfactory; not recommended

► Centrifuge Chemical Resistance Table, continued

Chemical, Concentration	Centrifugeware												
	Tubes						O-rings			Closures			
	FEP	PPCO	PC	PE	PP	PSF	PS	SILI	Viton®	PP	Tefzel® ETFE	PE	PPE
Tincture of Iodine, pure	S1	U	S1	S2	S1	S1	M	U	S	S1	S	S2	S1
Toluene, pure	S	U	U	U	U	U	U	U	U	U	S2	U	U
Tribromomethane, pure	S	U	U	U	U	U	U	U	S	U	M	U	—
Tributyl Citrate, pure	S	M	U	M	M	U	U	U	U	M	S2	M	U
Trichloroacetic Acid, pure	S	S	U	S2	S	U	U	U	U	S	M	S2	S2
Trichloroethane, pure	S	U	U	U	U	U	U	U	S	U	S	U	U
Trichloroethylene, pure	S	U	U	U	U	U	U	U	S	U	U	U	U
Triethylene Glycol, pure	S	—	S2	S	S	S2	S2	—	S	S	S	S	—
Tripropylene Glycol, pure	S	S	S2	S	S	S	S	S2	S	S	S	S	S2
Tris Buffer Solution, pH 11, pure	S	S	U	S	S	S	S2	S2	S	S	S	S	S2
Tris Buffer Solution, pH 7.0, pure	S	S	M	S	S	S	S2	S2	S	S	S	S	S
Trisodium Phosphate, pure	S	S	M	S	S	M	S	S2	S	S	S	S	S2
Tung Oil, pure	S	—	—	S	S2	—	U	S2	S	S2	S	S	—
Tung Oil, pure	S	—	—	S	S2	—	U	S2	S	S2	S	S	—
Undecyl Alcohol, pure	S	S2	M	S	M	M	M	—	S	M	S2	S	—
Urea, pure	S	S	U	S	S	S	S	M	S	S	S	S	S
Vinyl Cyanide, pure	S	U	U	S	U	U	U	U	U	U	S2	S	U
White Spirits, pure	S	U	U	U	U	U	M	U	S	U	S2	U	—
Xylene, pure	S	U	U	U	U	U	U	U	S	U	S	U	U
Zinc Stearate, pure	S	S	S	S	S	S	S	—	S	S	S	S	S

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