

Polysulfone Chemical Compatibility Chart

Chemical	Rating
1,4-Dioxane, pure	X
2,2,4-Trimethylpentane, pure ⁴	A
2,4,6-Trinitrophenol	X
2-Methoxyethanol	X
2-Propanol, pure ⁴	A
Acetaldehyde	X
Acetamide	X
Acetic acid, 5%	A
Acetic acid, 10%	A
Acetic acid, 20%	A
Acetic acid, 50% ¹	A
Acetic acid, glacial ¹	A
Acetic anhydride	X
Acetone, 5%	A
Acetone, 50%	A
Acetone, 60% ²	A
Acetone, pure	X
Acetonitrile	X
Acetophenone	X
Acetyl chloride	X
Acrylonitrile	X
Adhesive (Eastman 910)	A
Adipic acid, pure	A
Alanine, pure	A
Alconox, 1%	A
Allyl alcohol ⁴	B

Chemical	Rating
Aluminum sulfate, 10%	A
Aluminum chloride, pure	A
Aluminum hydroxide	B
Aluminum salts, pure	A
Aluminum trichloride, 10%	A
Amino acid, pure	A
Aminoethanol (2-)	A
Ammonia, 25% ²	A
Ammonia, 29% ²	A
Ammonia ⁴	B
Ammonium acetate, saturated	A
Ammonium chloride, 10%	A
Ammonium chloride, pure	A
Ammonium glycolate, pure	A
Ammonium hydroxide, 5% ¹	A
Ammonium hydroxide, 15% ¹	A
Ammonium hydroxide, 29% ¹	A
Ammonium hydroxide, 30% ¹	A
Ammonium nitrate, 10%	A
Ammonium oxalate, pure	A
Ammonium persulfate, 24%	A
Ammonium salts, pure	A
Ammonium sulfate, 10%	A
Amyl acetate	X
Amyl alcohol	A
Amyl alcohol, pure	A

A = Little or no interaction B = Slight interaction X = Not recommended Room temperature = 20°C or 68°F
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Amyl chloride	X
Aniline	X
Anti-Freeze ²	A
Antimony trichloride	X
Aqua regia, pure	X
Automotive grease ²	A
Aviation gasoline (100 octane) ³	B
Barbitol solvent	A
Barium chloride, 10%	A
Benzaldehyde	X
Benzenamine	X
Benzene	X
Benzene sulfonic acid	X
Benzoic acid ³	B
Benzol, pure	X
Benzonitrile	X
Benzyl acetate	X
Benzyl alcohol	X
Benzyl chloride	X
Black liquor ¹	A
Boric acid	A
Brake fluid	X
Brine	A
Bromine, 10% ^{1,3}	B
Bromine, pure	X
Bromobenzene	X
Bromoform	X

Chemical	Rating
Butadiene	X
Butanol ²	A
Butter, salted ²	A
Butyl acetate	X
Butyl alcohol	A
Butyl cellosolve	A
Butyl chloride	X
Butyl ether	A
Butyl phthalate	X
Butylamine (n-)	X
Butylated hydroxy anisole	X
Butylated hydroxy toluene	A
Butyraldehyde	X
Butyric acid	X
Calcium chloride, saturated	A
Calcium dinitrate, 10%	A
Calcium hydroxide	B
Calcium hypochlorite, 3.5% ³	A
Calcium hypochlorite, saturated ³	A
Calcium propionate ²	A
Calgon liquid	A
Carbitol	A
Carbazole	X
Carbon disulfide	X
Carbon tetrachloride ³	A
Carbon Tetrachloride	X
Caustic potash, 30% ⁴	A

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Caustic potash, 50% ⁴	A
Caustic potash, concentrated ⁴	A
Caustic soda, 1%	A
Caustic soda, 50% ¹	A
Cedarwood oil ³	B
Cellosolve (2-ethoxyethanol)	A
Cellosolve acetate	X
Cellosolve solvent ⁴	A
Chlorine, water solution	X
Chlorine, dry gas, 10%	X
Chlorine, wet gas	X
Chlorine, wet gas, 10%	X
Chloroacetic acid	X
Chlorobenzene	X
Chloroethanol (2-)	X
Chloroform	X
Chlorophenol, 5%	X
Chromic acid, 10% ²	A
Chromic acid, 12% ²	A
Chromic acid, 20%	X
Chromic acid, 50%	X
Chromic acid, 60%	X
Chromic acid, sulfuric acid mixture, 96%	X
Cinnamon oil ³	B
Citric acid, 2%	A
Citric acid, 10%	A
Citric acid, 40%	A

Chemical	Rating
Citric acid, 1M	A
Copper sulphate, pure	A
Corn oil ²	A
Cotton Seed oil ²	A
Cresol (m-)	X
Cresol	X
Cresyl Diphenyl phosphate	X
Cupric chloride, saturated	A
Cyclohexane ²	A
Cyclohexane	X
Cyclohexanol	A
Cyclohexanone	X
Cyclopentane	X
Decahydronaphthalene	X
Decalin, pure	X
Diacetone, pure	X
Diacetone alcohol	X
Dibutyl phthalate, pure	X
Dichlorobenzene (p-), vapor	X
Dichlorodifluoromethane (Freon 12)	A
Dichloromethane	X
Diesel fuel	A
Diesel fuel (fuel oil #2)	A
Diethyl benzene	X
Diethyl ether	X
Diethyl ketone	X
Diethyl malonate ³	B

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Diethylamine ^{1,3}	B
Diethylene dioxide	X
Dimethyl formamide	X
Diethylene glycol	X
Diethylene glycol monoethyl ether	X
Dimethyl acetamide, pure	X
Dimethyl formamide, pure	X
Dimethyl sulfoxide	X
Dimethylaniline	X
Dimethylformamide (N,N-)	X
Dimethylsulfoxide, 50% (DMSO)	B
Dimethylsulfoxide, pure (DMSO)	X
Dioctylphthalate ² (dioctyl phthalate)	A
Dioxane (p-)	X
Dipropylene glycol ³	B
DMSO	X
Dowtherm	X
Epichlorohydrin	X
Ethanol ^{1,2}	A
Ethanol, 40% ^{1,2}	B
Ether	X
Ethyl acetate	X
Ethyl alcohol, 15%	A
Ethyl alcohol, 40% ^{1,2}	B
Ethyl alcohol, 95% ^{1,2}	B
Ethyl alcohol, pure ^{1,2}	B
Ethyl benzene	X

Chemical	Rating
Ethyl benzoate	X
Ethyl butyrate	X
Ethyl chloride	X
Ethyl cyanoacetate	X
Ethyl lactate	X
Ethylbutyric acid (2-)	A
Ethylene chloride	X
Ethylene dichloride	X
Ethylene glycol	A
Ethylene glycol, pure	A
Ethylene glycol monomethyl ether	X
Ethylene oxide	A
Ethylene oxide, gas	A
Ethylene oxide, pure	A
Ethylenediamine, 92% ⁴	A
EtO, gas (ethylene oxide)	A
EtO, pure (ethylene oxide)	A
Fatty acids - saturated	B
Fatty acids - unsaturated	B
Ferric chloride, 10%	A
Ferrous sulfate, saturated	A
Fluorides	A
Fluorine, gas	X
Formaldehyde, 2%	A
Formaldehyde, 30%	A
Formaldehyde, 10%	A
Formaldehyde, 37% ¹	A

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Formaldehyde, 40% ¹	A
Formalin, 10%	A
Formalin, 40% ^{1,3}	B
Formic acid, 3% ¹	A
Formic acid, 10% ¹	B
Formic acid, 25% ¹	B
Formic acid, 50% ¹	B
Formic acid, 88% ¹	X
Formic acid, 100% ¹	X
Formic acid, pure ¹	X
Freon 11 ¹	A
Freon TF, pure ¹	B
Freon TMC	X
Freon TMS ²	A
Fuel oil ¹	A
Furfural	X
Gasoline ²	A
Glutaraldehyde	B
Glutaraldehyde disinfectant	B
Glycerin, pure	A
Glycerol, pure	A
Grape juice	A
Grease ²	A
Green liquor	A
Heptane (n-) ²	A
Heptane, 0.05%	A
Hexane (n-) ²	B

Chemical	Rating
Hexane ¹	B
Hexanol	A
Hydraulic oil	A
Hydrazine	X
Hydrobromic acid, 20%	A
Hydrobromic acid, 69% ¹	A
Hydrochloric acid, 5% ²	A
Hydrochloric acid, 20% ²	A
Hydrochloric acid, 37% ¹	A
Hydrofluoric acid, 4% ^{1,3}	B
Hydrofluoric acid, 25% ^{1,3}	A
Hydrofluoric acid, 50% ^{1,3}	A
Hydrogen peroxide	A
Hydrogen peroxide, 3%	A
Hydrogen peroxide, 30%	A
Hydrogen peroxide, 90%	A
Iodine solutions	X
Isobutanol, pure ¹	A
Isobutyl alcohol	A
Isobutyl alcohol, pure ¹	A
Isooctane	A
Isopropanol ^{1,3}	B
Isopropanol, 100% ^{1,3}	B
Isopropanol, pure ^{1,3}	B
iso-Propanol, 100% ^{1,3}	B
Isopropyl acetate	X
Isopropyl alcohol	A

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Isopropyl alcohol, 100% ^{1,3}	B
Isopropyl alcohol, pure ^{1,3}	B
Isopropyl benzene	X
Isopropyl ether ³	B
Isopropyl ether, pure	X
Jet fuel (640A)	A
Jet fuel (JP-4)	A
Jubilee wax ⁴	A
Kerosene ²	A
Ketchup	A
Lacquer thinner	X
Lactic acid, 3%	A
Lactic acid, 60% ³	A
Lactic acid, 85% ³	A
Lard	A
Lauric acid ³	A
Lead acetate, pure	A
Lemon oil	C
Lestoil	C
Linseed oil	A
Lubricating oil	A
Magnesium chloride, 10%	A
Magnesium chloride, pure	A
Malonic acid	A
Margarine ²	A
Mayonnaise	A
MEK, 40% ²	A

Chemical	Rating
MEK, pure	X
Methanol ²	A
Methanol, 100% ²	A
Methoxyethyl oleate	X
Methyl acetate	X
Methyl alcohol ²	A
Methyl alcohol, 98% ¹	B
Methyl alcohol, pure ¹	B
Methyl cellosolve	A
Methyl chloride	X
Methyl ethyl ketone	X
Methyl formate	X
Methyl isobutyl ketone	X
Methyl propyl ketone	X
Methylene chloride	X
Methylpyrrolidone	X
Methyl-t-butyl ether	X
MIBK	X
Milk ²	A
Mineral oil	A
Mineral spirits ^{3,4}	B
Monochlorobenzene	X
Monochlorodifluoromethane (Freon 22) ³	B
Monoethanolamine	A
Morpholine, 0.2%	X
Motor oil	A
Mustard	A

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Chemical	Rating
N-amyl acetate	X
N-butanol ^{3,4}	B
N-butyl acetate	X
N-butyl alcohol ^{3,4}	B
N-decane ^{3,4}	B
N-Heptane ¹	A
N-methyl-2-pyrrolidone	X
NALCON 7330 (<1%)	A
NALCON 7647 (<1%)	A
NALCON 7678 (<1%)	A
Naphtha VMOP	X
Naphthalene, vapor	X
Nitric acid, 5% ^{3,4}	B
Nitric acid, 10% ^{3,4}	B
Nitric acid, 20% ^{3,4}	B
Nitric acid, 25% ^{3,4}	B
Nitric acid, 40% ^{3,4}	B
Nitric acid, 50% ^{3,4}	B
Nitric acid, 71%	X
Nitric acid, 6N	X
Nitro Methane	X
Nitrobenzene	X
Nitrobenzene	X
Nitromethane	X
Nitropropane	X
N-octane ^{3,4}	B
O-dichlorobenzene	X

Chemical	Rating
Oil (ASTM #1)	A
Oil (ASTM #2)	A
Oil (ASTM #3) ²	A
Oil, cedarwood ^{2,3}	B
Oil, cinnamon ^{2,3}	B
Oil, corn ²	A
Oil, mineral ¹	A
Oil, olive ³	A
Oil, orange ^{2,3}	B
Oil, pine ^{2,3}	B
Oil, vegetable ²	A
Oleic acid ²	A
Olive oil ³	A
Orange oil ^{2,3}	B
Oxalic acid, 10%	A
Oxalic acid, 20%	A
Oxygen	A
Ozone	A
Ozone, pure	A
P-chloroacetophenone	X
P-dichlorobenzene	X
Peanut oil ²	A
Pentane	A
Peracetic acid, 0.1N	A
Perchloric acid	X
Perchloroethylene	X
Permatex ²	A

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Petroleum ^{2,3}	X
Petroleum based oils	A
Petroleum ether	A
Phenol	X
Phosphoric acid, 5%	A
Phosphoric acid, 20%	A
Phosphoric acid, 85%	A
Photographic film developer	A
Photographic film fixer	A
Picric acid	X
Pine oil ^{2,3}	B
Polyalkylene glycol oil (PAG)	X
Polyalphaolefin oil (PAO)	A
Polyolester oil (POE)	X
Potassium chloride	A
Potassium chloride, pure	A
Potassium Hydroxide, 1%	A
Potassium hydroxide, 20%	A
Potassium hydroxide, 25% ¹	A
Potassium hydroxide, 30% ^{1,3}	A
Potassium hydroxide, 35% ^{1,3}	A
Potassium hydroxide, 50% ^{1,3}	A
Potassium hydroxide, 1N ^{1,3}	A
Potassium hydroxide, concentrated ^{1,3}	A
Potassium nitrate, saturated	A
Potassium permanganate, 10%	A
Potassium permanganate, pure	A

Chemical	Rating
Propane, gas ^{2,3}	B
Propanol	A
Propionic acid ³	B
Propylene glycol, pure ³	B
Propylene oxide, pure ³	B
Pyridine	X
Resorcinol	X
Resorcinol, 5%	X
Resorcinol, saturated	X
Salicylaldehyde, pure ^{2,3}	B
Salicylic acid, powder	A
Salicylic acid, saturated	A
sec-Butanol, pure ¹	A
sec-Butyl alcohol, pure ¹	A
Silastic 140	A
Silicone compounds ²	A
Silicone oil ²	A
Silver acetate, pure	A
Silver nitrate, pure	A
Skydrol LD4 aviation hydraulic fluid	X
Sodium acetate, pure	A
Sodium bicarbonate, 10%	A
Sodium carbonate, 10%	A
Sodium carbonate, pure ¹	A
Sodium chloride, 10%	A
Sodium chromate, 10%	A
Sodium dichromate, pure	A

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Sodium hydroxide, 0.1N	A
Sodium hydroxide, 1%	A
Sodium hydroxide, 5%	A
Sodium hydroxide, 10% ¹	A
Sodium hydroxide, 15% ¹	A
Sodium hydroxide, 25% ¹	A
Sodium hydroxide, 30% ¹	A
Sodium hydroxide, 50% ¹	A
Sodium hydroxide, concentrated	A
Sodium hypochlorite, 0.17%	A
Sodium hypochloride, 10%	A
Sodium hypochlorite, 15%	A
Sodium silicate, 1.7% ²	A
Sodium sulfate, 10%	A
Sodium sulfide, 10%	A
Sodium thiosulfite, 10%	A
Sorbic acid	A
Stearic acid ^{2,3}	B
Stoddard Solvent ²	A
Sulfolane	X
Sulfur dioxide, liquid (46 psig) ^{2,3}	B
Sulfur dioxide, wet gas ^{2,3}	B
Sulfur dioxide, pure ^{2,3}	B
Sulfur salts ^{2,3}	B
Sulfuric acid, 5% ³	A
Sulfuric acid, 6% ³	A
Sulfuric acid, 20% ³	A

Chemical	Rating
Sulfuric acid, 25% ³	A
Sulfuric acid, 30% ³	A
Sulfuric acid, 60% ³	A
Sulfuric acid, 65% ³	A
Sulfuric acid, 85% ³	A
Sulfuric acid, 95%	X
Sulfuric acid, 96%	X
Sulfuric acid, 98%	X
Sulfuric acid, 6N	X
Sulfuric acid, concentrated	X
Surfactant (Jet-Dry)	A
Tartaric acid, pure	A
TCA, pure ²	B
tert-Butanol, pure ^{1,2}	B
tert-Butyl alcohol, pure ^{1,2}	B
Tetrachlorodifluoroethane (Freon BF) ²	A
Tetrahydrofuran (THF)	X
THF	X
Thionyl chloride	X
Toluene	X
Toluene, 0.05% ³	B
Tomato juice	A
Transmission oil	A
Tributyl citrate ^{1,2}	B
Trichloroacetic acid, 25%	A
Trichloroacetic acid ^{1,2}	B
Trichlorobenzene	X

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Trichloroethane (1,1,1-) ²	B
Trichloroethane, pure	X
Trichloroethylene	X
Trichlorofluoroethane (Freon TF)	A
Triethylamine	X
Triethylene glycol, pure	A
Triphenylphosphite	X
Tripropylene glycol, pure	A
Tris Buffer Solution, pH 11 ^{1,2}	B
Tris Buffer Solution, pH 7.0 ^{1,2}	B
Trisodium phosphate	B
Turpentine	X

Chemical	Rating
Undecyl alcohol ^{2,3}	B
Urea	A
Urea, 6N	X
Urea, pure	X
Varsol ²	A
Vegetable oil ²	A
Vinylidene chloride	X
Water	A
Xylene ^{2,3}	X
Xylene, pure	X
Zinc chloride, saturated	A

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