

PP Chemical Resistance Guide

Reagent	70°F (21°C)	140°F (60°C)	212°F (100°C)	Reagent	70°F (21°C)	140°F (60°C)	212°F (100°C)
A				Barium sulfide	S	S	S
Acetic acid (10%)	S	S		Beer	S	S	
Acetic acid (50%)	S	S	O	Beet Juice	S	S	O
Acetic acid (100%)	S	S		Benzaldehyde	S	S	
Acetic anhydride	S	S		Benzene	O	U	U
Acetone	S	S		Benezene Sulfonic Acid, 10%	S	S	S
Acetonitrile	S			Benzoic Acid	S		
Acetophenone	O	O	U	Benzyl alcohol	S	S	
Almond Oil	S	S		Benzyl chloride	S	S	
Aluminum ammonium sulfate	S	S		Bismuth carbonate	S	S	
Aluminum chloride	S	S	O	Bluing	S	S	S
Aluminum fluoride	S	S		Borax	S	S	S
Aluminum hydroxide	S	S		Boric acid	S	S	
Aluminum nitrate	S	S	S	Brandy	S	S	
Aluminum potassium sulfate	S	S		Brake fluid	S	O	
Alums (all types)	S	S		Brine	S	S	S
Ammonia (anhydrous)	S	S		Bromic acid	U	U	
Ammonia (30% aqueous)	S	S		Bromine	U	U	
Ammonium bi-fluoride	S	S		Bromine water	U	U	
Ammonium carbonate	S	S	S	Butane	O		
Ammonium chloride	S	S	O	Butyl acetate	U	U	
Ammonium fluoride (25%)	S	S		Butyl acrylate	U	U	
Ammonium hydroxide	S	S		Butyl alcohol	S	S	
Ammonium nitrate	S	S	S	Butyl Phthalate	S	S	S
Ammonium sulfate	S	S	S	C			
Ammonium sulfide	S	S		Calcium bisulfate	S	S	
Ammonium thiocyanate	S	S		Calcium carbonate	S	S	S
Amyl acetate	O	U		Calcium chlorate	S	S	
Amyl alcohol	S	O	U	Calcium chloride	S	S	O
Amyl chloride	U	U		Calcium hydroxide	S	S	S
Aniline	S	S	O	Calcium hypochlorite	S	S	
Anisole	O	O	U	Calcium nitrate	S	S	
Antimony trichloride	S	S		Calcium soap grease	S	O	
Apple Juice	S	S	S	Calcium sulfate	S	S	
Aqua regia	O	O		Calgonite (1%)	S	S	
Arsenic acid	S	S		Camphor Oil	U	U	U
Aviation fuel	O	O		Carbon dioxide (dry)	S	S	
B				Carbon dioxide (wet)	S	S	
Barium carbonate	S	S		Carbon disulfide	O	U	
Barium chloride	S	S	O	Carbon monoxide	S	S	
Barium hydroxide	S	S		Carbon tetrachloride	U	U	
Barium soap grease	S	O		Carbonic acid	S	S	
Barium sulfate	S	S		Castor oil	S	S	
				Caustic Soda, conc.	S	S	S
				Cellosolve	S	S	

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Cetyl alcohol	S			Ethylene chloride	U	U	
Chlorine (dry)	U	U		Ethylene chlorohydrin	S	S	
Chlorine (wet)	O	U		Ethylene dichloride	S		
Chloroacetic acid	S			Ethylene glycol	S	S	
Chlorobenzene	U	U		Ethylene oxide	S		
Chloroform	O	U		F			
Chlorosulfonic acid	U	U		Ferric chloride	S	S	
Chromic acid (10%)	S	S		Ferric nitrate	S	S	
Chromic acid (50%)	S	S		Ferric sulfate	S	S	
Chromic acid (80%)	S			Ferrous chloride	S	S	
Cider	S	S		Ferrous nitrate	S	S	O
Citric acid	S	S		Ferrous sulfate	S	S	
Clorox	S	S	S	Fluorine	U	U	
Clove Oil	O	U	U	Fluosilicic acid	S	S	
Copper chloride	S	S		Formaldehyde	S	S	O
Copper cyanide	S	S		Formic acid (10%)	S	S	
Copper fluoride	S	S		Formic acid (100%)	S		
Copper nitrate	S	S		Freon (12, 22)	U		
Copper sulfate	S	S		Fructose	S	S	
Corn oil	S	S		Fruit juice	S	S	
Cottonseed oil	S	S		Fuel oil	O	O	
Cresol	S	S		Furfural	U	U	
Cuprous chloride	S	S		G			
Cyclohexane	S	O		Gasoline	O	U	
Cyclohexanol	S	O		Gelatin	S	S	
Cyclohexanone	O	U		Glucose	S	S	
D				Glycerol	S	S	S
Decalin	U	U		Glycol	S	S	O
Developers (photographic)	S	S		Glycolic acid	S	S	
Dextrin	S	S		H			
Dibutyl phthalate	S	S		Heptane	U	U	U
Dichloroethylene	S			Hexadecyl alcohol	S	S	
Diethanolamine	S	S		Hexane	O	U	
Diethyl ether	O	O		Hydrobromic acid (50%)	S	S	
Diglycolic acid	S	S		Hydrochloric acid (20%)	S	S	O
Diisooctyl phthalate	S	S		Hydrochloric acid (100%)	S	S	O
Dimethyl phthalate	S	S		Hydrofluoric acid (35%)	S	O	
Diocetyl Phthalate	U	U	U	Hydrogen chloride gas (dry)	S	S	
p-Dioxane	S	O		Hydrogen peroxide (30%)	S	O	
E				Hydrogen peroxide (90%)	O	O	U
Ethanolamine	S	S		Hydrogen sulfide	S	S	
Ethyl acetate	S	S		Hydroiodic acid	U	U	
Ethyl alcohol	S	S	S	Hydroquinone	S	S	
Ethylamine	S	S		I			
Ethyl chloride	O	O		Igepal	S	S	
Ethyl ether	O	O					

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Iodine (dry)	S	S		Motor oil	S	S	
Iodine (wet)	U			Mustard Paste	S		
Isooctane	U			N			
Isopropyl alcohol	S	S		Naphtha	S	S	
J				Naphthalene	S	S	S
Jet fuel (JP-4 and JP-5)	O	U		Neat's Foot Oil	S		
K				Nickel chloride	S	S	
Kerosene	O	U		Nickel nitrate	S	S	O
L				Nickel sulfate	S	S	S
Lactic acid	S	S		Nitric acid (10%)	S	S	S
Lacquer	S			Nitric acid, conc.	O	U	
Lanolin	S	S		Nitric acid (fuming)	U		
Lead acetate	S	S	S	Nitric/sulfuric acid (50/50)	U		
Lemon oil	O			Nitrobenzene	S	O	
Ligroin	S			Nitrous acid	O		
Lime Sulfur	S			Nutmeg Oil	U	U	U
Linseed oil	S	S		O			
Lubricating oil	S	O		Oleic acid	S	S	
Lye	S			Oleum	U		
M				Olive oil	S	S	
Magnesium carbonate	S	S	S	Orange Juice	S		
Magnesium chloride	S	S	O	Oxalic acid	S	S	
Magnesium hydroxide	S	S	S	Oxygen	U	U	
Magnesium nitrate	S	S		Ozone	U	U	
Magnesium sulfate	S	S		P			
Magnesium sulfite	S	S		Palmitic Acid	S	S	S
Malic acid	S	O		Paradichlorobenzene	S	S	
Maple Syrup	S			Peanut oil	S	S	
Mayonnaise	S			Perchloroethylene	U	U	
Mercuric chloride	S	S		Phenol (10%)	S	S	O
Mercuric cyanide	S	S		Phosgene (gas)	U	U	
Mercuric nitrate	S	S		Phosgene (liquid)	U	U	
Mercurochrome	S			Phosphoric acid (30%)	S	S	O
Mercury	S	S		Phosphoric (85%)	S	S	O
Merthiolate (tincture)	S	S		Phosphorus	S		
Methane	S	S		Phthalic acid	S		
Methanol	S	S		Picric Acid	S		
Methyl cellosolve	S			Polyvinyl acetate	S		
Methyl chloride	U			Potassium bromide	S	S	S
Methylene chloride	S	O		Potassium carbonate	S	S	S
Methyl ethyl ketone	S	S		Potassium chlorate	S	S	O
Methyl isobutyl ketone	S	S		Potassium cyanide	S	S	
Methylsulfuric acid	S	S		Potassium dichromate	S	S	S
Milk	S	S		Potassium ferrocyanide	S	S	
Mineral oil	S	U		Potassium hydroxide	S	S	S
Molasses	S			Potassium nitrate	S	S	

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Potassium permanganate	S	O		T			
Potassium sulfate	S	S	S	Tannic acid (10%)	S	S	
Potassium sulfide	S	S	S	Tartaric Acid	S	S	S
Propanol	S	S		Tea	S	S	S
Pyridine	S			Tetrahydrofuran	S	S	O
R				Tetralin	O	O	O
Rice Bran Oil	S	S		Toluene	U	U	
Rosin, light	S			Tomato Juice	S	S	S
S				Tomato Soup	S	S	S
Safflower Oil	S	O		Tributyl phosphate	S	O	
Sauerkraut	S			Trichloroacetic Acid	S	O	
Shellac	S			Trichloroethylene	U	U	
Silicone Oil	S			Tricresyl phosphate	S	S	
Silver cyanide	S	S		Triethanolamine	O	O	
Silver nitrate	S	S	S	Trisodium phosphate	S	S	
Sodium acetate	S	S		Turpentine	S	O	O
Sodium benzoate	S	S	S	U			
Sodium bicarbonate	S	S		Urea	S	S	
Sodium bisulfate	S	S		Urine	S	S	
Sodium bisulfite	S	S		V			
Sodium bromide	S	S		Vanilla	S	S	
Sodium carbonate	S	S	S	Varnish	S		
Sodium chlorate	S	S	O	Vaseline	S	O	O
Sodium chloride	S	S	O	Vinegar	S	S	
Sodium cyanide	S	S		W			
Sodium hydroxide, conc.	S	S	S	Water	S	S	O
Sodium Hypochlorite, conc.	S	O	U	Wheat Germ Oil	S	S	
Sodium Nitrate	S	S	S	Whiskey	S	S	S
Sodium Perborate	S			White Spirits	U	U	U
Sodium Phosphate	S	S	S	Wines	S	S	
Sodium sulfate	S	S		X			
Sodium sulfite	S	S		Xylene	O	U	
Sodium Thiosulfate	S	S		Xylol	S		
Soybean Oil	S	S		Y			
Stannic chloride	S	S		Yeast	S	S	
Stannous chloride	S	S		Z			
Starch	S	S		Zinc chloride	S	S	
Styrene	U	U	U	Zinc oxide	S	S	
Sucrose (20%)	S	S		Zinc sulfate	S	S	
Sulfamic acid	S	S					
Sulfur	O	U	U				
Sulfur Chloride	O	U	U				
Sulfuric acid (10%)	S	S	S				
Sulfuric acid (50%)	S	S					
Sulfuric acid, conc.	S	O	U				
Sulfuric acid (fuming)	U	U					

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Note: The proceeding information concerns general chemical resistance only. Since other factors such as permeation, ESCR and container design are involved, full compatibility testing is recommended. Staining is not considered in this evaluation.

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