

CHEMICAL RESISTANCE CHART



G: Good

M: Moderate

X: Not resistant

PVC

Chemical	Resistance at 23°C	Resistance at 60°C
Acetaldehyde	X	X
Acetaldehyde, aq 40%	X	X
Acetic acid, 10%	G	G
Acetic acid, 20%	G	G
Acetic acid, 50%	M	X
Acetic acid, glacial	X	X
Acetic anhydride	X	X
Acetone	X	X
Acetonitrile	X	X
Acetylene	X	X
Acetophenone	X	X
Acetyl chloride	X	X
Acetylnitrile	X	X
Acrylonitrile	X	X
Acrylic acid	X	X
Adipic acid	G	M
Alcohol, allyl	M	X
Alcohol, amyl	X	X
Alcohol, benzyl	X	X
Alcohol, butyl (n-butanol)	G	X
Alcohol, diacetone	X	X
Alcohol, ethyl (ethanol)	G	X
Alcohol, hexyl (hexanol)	G	M
Alcohol, isopropyl (2-propanol)	G	X
Alcohol, methyl (methanol)	G	X
Alcohol, propyl (1-propanol)	G	M
Allyl chloride	X	X
Alums	G	G
Aluminum chloride	G	G
Aluminum fluoride	G	G
Aluminum hydroxide	G	G
Aluminum nitrate	G	G
Aluminum sulfate	G	G
Ammonia, gas	G	G
Ammonia, liquid	X	X
Ammonium salts	G	G
Ammonium fluoride, 10%	G	G
Ammonium fluoride, 25%	G	M
Amyl acetate	X	X

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Aniline	X	X
Aniline chlorohydrate	X	X
Aniline hydrochloride	X	X
Anthraquinone	G	X
Antimony trichloride	G	G
Anthraquinone sulfonic acid	G	G
Aqua regia	X	X
Arsenic acid, 80%	G	M
Aryl-sulfonic acid	G	X
Barium carbonate	G	G
Barium Chloride	G	G
Barium hydroxide	G	G
Barium nitrate	G	G
Benzaldehyde, 10%	X	X
Benzene (benzol)	X	X
Benzene sulfonic acid, 10%	G	G
Benzene sulfonic acid, > 10%	X	X
Benzoic acid	G	X
Benzyl acetate	X	X
Bleach, 5% active chlorine	G	G
Bleach, 12% active chlorine	G	G
Borax	G	G
Boric acid	G	M
Brine	G	G
Bromic acid	G	G
Bromine, liquid	X	X
Bromine, gas	X	X
Bromobenzene	X	X
Bromotoluene	X	X
Butadiene	X	X
Butane	G	G
Butynediol	G	X
Butyl acetate	X	X
Butyl acrylate	X	X
Butyl ether	X	X
Butyl phenol	X	X
Butyl stearate	G	X
Butyric acid	N	X
Cadmium Cyanide	G	G
Calcium salts	G	G
Calcium hypochlorite, 30%	G	G
Calcium hydroxide	G	G
Calcium Nitrate	G	G
Calcium Oxide	G	G
Calcium Sulfate	G	G
Carbon disulfide	X	X
Carbon dioxide	G	G
Carbon dioxide, aq	G	G
Carbon monoxide	G	G
Carbitol	G	X

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Carbon tetrachloride	X	X
Carbonic Acid	G	G
Castor oil	G	G
Caustic potash, (potassium hydroxide), 50%	G	X
Caustic soda, (sodium hydroxide), < 40%	G	M
Cellosolve	G	X
Cellosolve acetate	X	X
Chloral hydrate	G	G
Chloramine, dilute	G	X
Chloric acid, 20%	G	M
Chlorine, gas, dry	M	X
Chlorine, gas, wet	X	X
Chlorine water solution	G	M
Chloracetic acid	X	X
Chloroacetyl Chloride	G	X
Chlorobenzene	X	X
Chlorobenzyl chloride	X	X
Chloroform	X	X
Chloropicrin	X	X
Chlorosulfonic acid	X	X
Chromic acid, 10%	G	X
Chromic acid, 30%	M	X
Chromic acid, 40%	M	X
Chromic acid, 50%	M	X
Cinnamon oil	X	X
Citric acid	G	M
Coconut oil	G	G
Copper acetate	G	X
Copper carbonate	G	G
Copper fluoride	G	M
Copper nitrate	G	M
Copper sulfate	G	G
Corn oil	G	G
Corn syrup	G	G
Cottonseed oil	G	G
Creosote	X	X
Cresol, 90%	X	X
Cresylic acid	M	X
Croton aldehyde	X	X
Crude oil	G	G
Cupric Salts, aq	G	G
Cyclohexane	X	X
Cyclohexanol	X	X
Cyclohexanone	X	X
Decahydronaphthalene	X	X
Dextrin	G	M
Dextrose	G	G
Dibutoxyethyl phthalate	X	X
Dibutyl phthalate	X	X
Dibutyl sebacate	M	X

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Dichloroacetic acid	X	X
Dichlorobenzene	X	X
Dichloroethane	X	X
Dichloroethylene	X	X
Diesel fuels	G	G
Diethylamine	X	X
Diethyl ether	X	X
Diethyl malonate	X	X
Diethylene glycol	M	X
Diglycolic acid	G	M
Diisobutyl ketone	X	X
Dioxane -1,4	X	X
Dimethylamine	X	X
Dimethyl formamide	X	X
Dimethyl phthalate (DMP)	X	X
Disodium hydrogen ortho phosphate	G	G
Dimethyl sulfoxide (DMSO)	X	X
Epichlorhydrin	X	X
Ethers	X	X
Ethyl acetate	X	X
Ethyl acrylate	X	X
Ethylbenzene	X	X
Ethyl benzoate	X	X
Ethyl chloride	X	X
Ethyl halides	X	X
Ethylene halides	X	X
Ethylene glycol	G	X
Ethylene oxide	X	X
Fatty acids	G	G
Ferric salts	G	G
Fluorides	G	M
Fluorine, dry gas	X	X
Fluorine, wet gas	X	X
Fluoboric acid	G	G
Fluosilicic acid, 50%	G	G
Formaldehyde	G	X
Formic acid	G	X
Freon - F11, F12	G	G
Freon - F113, F114	M	M
Freon - F21, F22	X	X
Fructose	G	G
Furfural	X	X
Furfuryl Alcohol	X	X
Gas, coal, manufactured	X	X
Gas, natural, methane	G	G
Gasoline	X	X
Gelatine	G	G
Glucose	G	G
Glycerine (glycerol)	G	G
Glycolic acid	G	G

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Heptane	G	X
Hexane	G	X
Hexanol	G	M
Hydrobromic acid	G	X
Hydrochloric acid	G	M
Hydrofluoric acid, 10%	G	G
Hydrofluoric acid, 40%	M	X
Hydrofluoric acid, 60%	M	X
Hydrocyanic acid	G	G
Hydrogen	G	G
Hydrogen fluoride	X	X
Hydrogen peroxide, 50%	G	X
Hydrogen peroxide, 90%	X	X
Hydrogen sulfide, aq	G	G
Hydrogen sulfide gas, dry	G	G
Hydroquinone	G	G
Hydroxylamine sulfate	G	G
Hypochlorous acid	M	M
Iodine	X	X
Isobutanol	G	X
Jet fuels, JP-4 and JP-5	M	M
Kerosene	M	M
Lactic acid, 25%	G	G
Lactic acid, 80%	G	X
Lauric acid	G	G
Lauryl acetate	G	G
Lauryl chloride	G	X
Lead salts	G	G
Linoleic acid	G	M
Linoleic oil	G	M
Linseed oil	G	M
Lithium salts	G	G
Magnesium salts	G	M
Maleic acid	G	M
Malic acid	G	G
Manganese chloride	G	M
Manganese sulfate	G	G
Mercuric salts	G	G
Mercury	G	G
Methane	G	M
Methoxyethyl oleate	X	X
Methyl acetate	X	X
Methyl amine	X	X
Methyl bromide	X	X
Methyl cellosolve	X	X
Methyl chloride	X	X
Methyl chloroform	X	X
Methyl ethyl ketone	X	X
Methyl isobutyl carbinol	X	X
Methyl isobutyl ketone	X	X

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Methyl isopropyl ketone	X	X
Methyl methacrylate	G	X
Methyl sulfate	G	X
Methylene bromide	X	X
Methylene chloride	X	X
Methylene iodide	X	X
Mineral oil	M	X
Molasses	G	M
Monochloroacetic acid	G	M
Monochlorobenzene	X	X
Monoethanolamine	X	X
Motor oil	G	G
Naphtha	X	X
Naphthalene	X	X
Natural Gas	G	G
Nickel acetate	G	X
Nickel salts	G	G
Nicotine	G	G
Nicotinic acid	G	G
Nitric acid, 10%	G	G
Nitric acid, 20%	G	X
Nitric acid, 50%	M	X
Nitric acid, 70%	X	X
Nitric acid, 100%	X	X
Nitrobenzene	X	X
Nitroglycerine	X	X
Nitrous oxide	G	X
Nitroglycol	X	X
Oleic acid	G	G
Oleum	X	X
Oxalic acid	G	X
Oxygen, gas	G	G
Ozone, gas	X	X
Ozone, aq	G	M
Palmitic acid, 10%	G	G
Palmitic acid, 70%	G	X
Paraffin	G	M
Pentane	M	M
Peracetic acid	G	X
Perchloric acid, 15%	G	X
Perchloric acid, 70%	G	X
Perchloroethylene	X	X
Perphosphate	G	X
Phenol	X	X
Phenylhydrazine	X	X
Phosphoric anhydride	G	X
Phosphoric acid	G	G
Phosphorus, yellow	G	X
Phosphorus, red	G	X
Phosphorus pentoxide	G	X

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Phosphorus trichloride	X	X
Phthalic acid	X	X
Picric acid	X	X
Potash	G	G
Potassium amyl xanthate	G	X
Potassium salts, aq	G	M
Potassium permanganate, 10%	G	M
Potassium permanganate, 25%	G	X
Propane	G	X
Propylene dichloride	X	X
Propylene Glycol, 25%	G	G
Propylene Glycol, 25 - 50%	M	M
Propylene Glycol, 50%	X	X
Propylene oxide	X	X
Pyridine	X	X
Salicylic acid	G	M
Salicylaldehyde	X	X
Selenic acid, aq.	G	G
Silicic acid	G	G
Silicone oil	G	X
Silver salts	G	M
Soap solutions	G	M
Sodium salts, aq	G	G
Stannic chloride	G	G
Stannous chloride	G	G
Stearic acid	G	G
Stoddard solvents	X	X
Succinic acid	G	G
Sulfamic acid	X	X
Sulfur	G	G
Sulfur dioxide, gas, dry	G	X
Sulfur dioxide, gas, wet	G	X
Sulfur trioxide, gas, dry	G	G
Sulfur trioxide	X	X
Sulfuric acid, up to 80%	G	G
Sulfuric acid, 90 to 93%	G	X
Sulfuric acid, 94 to 100%	X	X
Sulfurous acid	G	G
Tall Oil	G	M
Tannic acid	G	G
Tar	X	X
Tartaric acid	G	G
Terpineol	M	M
Tetrachloroethane	X	X
Tetraethyl lead	G	X
Tetrahydrofuran	X	X
Tetralin	X	X
Tetra sodium	G	G
Thionyl chloride	X	X
Thread cutting oils	G	X

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Titanium tetrachloride	X	X
Toluene	X	X
Transformer oil	G	G
Tributyl phosphate	X	X
Tributyl citrate	X	X
Trichloroacetic acid	M	X
Trichloroethylene	X	X
Triethanolamine	G	X
Triethylamine	G	M
Trisodium phosphate	G	X
Turpentine	M	X
Urea	G	X
Urine	G	G
Vaseline	X	X
Vinyl acetate	X	X
Water, deionized	G	G
Water, distilled	G	G
Water, salt	G	G
Xylene	X	X
Zinc salts	G	M

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