

Acetal (POM) Chemical Compatibility Chart

Chemical

Acetaldehyde	A
Acetamide	A
Acetate Solvents	A
Acetic Acid	D
Acetic Acid, 20%	C
Acetic Acid, 80%	D
Acetic Acid, Glacial	D
Acetic Anhydride	D
Acetone	A
Acetyl Chloride, dry	D
Acetylene	A
Alcohols: Amyl	A
Alcohols: Benzyl	A
Alcohols: Butyl	A
Alcohols: Diacetone	A
Alcohols: Ethyl	A
Alcohols: Hexyl	A
Alcohols: Isobutyl	A
Alcohols: Isopropyl	A
Alcohols: Methyl	A
Alcohols: Octyl	A
Alcohols: Propyl (1-Propanol)	A
Aluminum chloride, 20%	C
Aluminum Fluoride	C
Aluminum Hydroxide	A
Aluminum Nitrate	B
Aluminum Potassium Sulfate, 10%	C
Aluminum Potassium Sulfate, 100%	C
Aluminum Sulfate, 10%	B
Alums	C
Amines	D
Ammonia, 10% (Ammonium Hydroxide)	C
Ammonia, 10%	D
Ammonia, anhydrous	D
Ammonia, liquid	D
Ammonia Nitrate	C

Chemical

Ammonium Acetate	C
Ammonium Bifluoride	D
Ammonium Carbonate	D
Ammonium Caseinate	D
Ammonium Chloride, 10%	B
Ammonium Hydroxide	D
Ammonium Nitrate, 10%	A
Ammonium Oxalate	B
Ammonium Persulfate	D
Ammonium Phosphate, Dibasic	B
Ammonium Phosphate, Monobasic	B
Ammonium Phosphate, Tribasic	B
Ammonium Sulfate	B
Ammonium Sulfite	D
Ammonium Thiosulfate	B
Amyl Acetate	B
Amyl Alcohol	A
Amyl Chloride	A
Aniline	A
Aniline Oil	D
Anise Oil	D
Antifreeze	D
Aqua Regia (80% HCl, 20% HNO ₃)	D
Aromatic Hydrocarbons	A
Arsenic Acid	D
Asphalt	B
Barium Carbonate	A
Barium Chloride	A
Barium Cyanide	B
Barium Hydroxide	D
Barium Nitrate	B
Barium Sulfate	B
Barium Sulfide	A
Bay Oil	D
Beer	A
Beet Sugar Liquids	B

Key to General Chemical Resistance – All data is based on ambient or room temperature conditions, about 64°F (18°C) to 73°F (23°C)

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Benzaldehyde	A
Benzene	A
Benzene Sulfonic Acid	C
Benzoic Acid	B
Benzol	A
Benzyl Chloride	A
Bone Oil	D
Borax (Sodium Borate)	B
Boric Acid, 10%	A
Brewery Slop	B
Bromine Gas	D
Butadiene	A
Butane Gas	A
Butanol (Butyl Alcohol)	A
Butter	A
Buttermilk	A
Butylene	A
Butyl Acetate	A
Butyl Amine	C
Butyl Ether	D
Butyric Acid, 20%	A
Calcium Bisulfide	D
Calcium Bisulfite	D
Calcium Carbonate (Chalk) CaCO ₃	A
Calcium Chlorate	A
Calcium Chloride, 10%	D
Calcium Hydroxide (Lye), 10%	D
Calcium Hypochlorite	D
Calcium Nitrate	D
Calcium Oxide (Unslaked Lime) CaO	A
Calcium Sulfate, 10%	D
Calgon	A
Cane Juice	A
Carbolic Acid (Phenol)	D
Carbon Bisulfide	A

Chemical

Carbon Dioxide, dry	A
Carbon Dioxide, wet	A
Carbon Disulfide	A
Carbon Monoxide Gas	A
Carbon Tetrachloride, wet	A
Carbonated Water (carbonic acid)	A
Carbonic Acid (carbonated water)	B
Castor Oil	A
Catsup	B
Chloric Acid	D
Chlorine, anhydrous liquid	A
Chlorine Gas, dry 10%	D
Chlorine Water (5-10 ppm)	D
Chloroacetic Acid	D
Chlorobenzene (mono)	D
Chlorobromomethane	B
Chloroform	A
Chlorosulfonic Acid	D
Chocolate Syrup	A
Chromic Acid, 5%	D
Chromic Acid, 10%	D
Chromic Acid, 30%	D
Chromic Acid, 50%	D
Cider	A
Cinnamon Oil	D
Citric Acid, aqueous 10%	B
Citric Oils	D
Citrus Oil or Terpene (d-Limonene)	D
Clorox® Bleach	D
Coconut Oil	A
Coffee	A
Copper Chloride	A
Copper cyanide	A
Copper Fluoroborate	B
Copper Nitrate	A

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Copper Sulfate, 5%	D
Copper Sulfate, over 5%	D
Cream	A
Creosote Oil	D
Cresols	D
Cresylic Acid	D
Cyanoic Acid	D
Cyclohexane	A
Cyclohexanone	A
Detergents	A
Diacetone Alcohol	A
Dichlorobenzene	B
Dichloroethane	A
Diesel Fuel	A
Diethyl Ether	A
Diethylamine	B
Diethylene Glycol	A
Dimethyl Aniline	D
Dimethylformamide	D
Diphenyl Oxide	D
Dyes	C
Epsom Salts (magnesium sulfate)	B
Ethane	A
Ethanol (ethyl alcohol)	A
Ethanolamine	D
Ether	A
Ethyl Acetate	A
Ethyl Benzoate	A
Ethyl Chloride	A
Ethyl Ether	A
Ethylene Chloride	A
Ethylene Chlorohydrin	D
Ethyl Diamine	D
Ethylene Dichloride	B
Ethylene Glycol	B

Chemical

Ethylene Oxide Gas (EtO), dry 3%	D
Fatty Acids	A
Ferric Chloride, 10%	D
Ferric Nitrate	D
Ferric Sulfate	D
Ferrous Chloride	D
Ferrous Sulfate	D
Fluobric Acid	A
Fluorine Gas	D
Fluosilicic Acid, 20%	B
Fluosilicic Acid, 100%	A
Formaldehyde, 40%	A
Formaldehyde, 100%	A
Formic Acid (methanoic acid), 10%	A
Freon 11	D
Freon 12	B
Freon 22	A
Freon TF	A
Fruit Juices	D
Fuel Oils	A
Furan Resin	D
Furfural (ant oil) C ₅ H ₄ O ₂	A
Gasoline, high-aromatic	B
Gasoline, leaded	A
Gasoline, unleaded	A
Gelatin	B
Ginger Oil	A
Glucose	A
Glue, PVA (polyvinyl acetate)	A
Glycerin	A
Glycolic Acid	A
Gold Monocyanide	A
Grape Juice	A
Grease	D
Heptane	A

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Hexane	A
Hexyl Alcohol	A
Honey	A
Hydraulic Oil, petroleum based	B
Hydraulic Oil, synthetic	B
Hydrazine (Diamine) H ₂ NNH ₂	B
Hydrobromic Acid, 20%	C
Hydrobromic Acid, 100%	D
Hydrochloric Acid, 20%	C
Hydrochloric Acid, 37%	C
Hydrochloric Acid, 100%	C
Hydrocyanic Acid	A
Hydrocyanic Acid Gas, 10%	C
Hydrofluoric Acid, 20%	D
Hydrofluoric Acid, 50%	D
Hydrofluoric Acid, 75%	D
Hydrofluoric Acid, 100%	D
Hydrofluosilicic Acid, 20%	B
Hydrofluosilicic Acid, 100%	A
Hydrogen Peroxide, 10%	D
Hydrogen Peroxide, 30%	D
Hydrogen Peroxide, 50%	D
Hydrogen Peroxide, 100%	D
Hydrogen Sulfide, aqueous	C
Hydrogen Sulfide, dry	A
Hydroquinone	A
Hydroxyacetic Acid, 70%	A
Ink	B
Iodine	D
Iodine, in alcohol	D
Isopropyl Acetate	D
Isopropyl Ether	D
Jet Fuel (JP3, JP4, JP5)	A
Kerosene	A
Ketones	D

Chemical

Lacquer Thinners	D
Lacquers	D
Lactic Acid	B
Lard	A
Latex	B
Lead Acetate	B
Lead Sulfamate	A
Lemon Oil	D
Ligroin	B
Lime (CaO)	B
Linoleic Acid	B
Linseed Oil	A
Lithium Chloride	A
Lubricants	A
Lye (Ca(OH) ₂ , calcium hydroxide)	D
Lye (KOH, potassium hydroxide)	A
Lye (NaOH, sodium hydroxide)	C
Magnesium Carbonate	A
Magnesium Chloride, 10%	B
Magnesium Hydroxide, 10%	A
Magnesium Nitrate	A
Magnesium Oxide	A
Magnesium Sulfate (Epsom salts)	B
Maleic Acid	A
Maleic Anhydride	D
Malic Acid (Apple Acid) C ₄ H ₆ O ₅	A
Manganese Sulfate	A
Mash	A
Mayonnaise	A
Melamine	A
Mercuric chloride, dilute	B
Mercury	A
Methane Gas	A
Methanol (methyl alcohol)	A
Methyl Acetate	B

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Methyl Acetone (mixture)	D
Methyl Acrylate	B
Methyl Alcohol, 10%	A
Methyl Bromide	D
Methyl Butyl Ketone	D
Methyl Cellosolve	D
Methyl Chloride	B
Methyl Dichloride	D
Methyl Ethyl Ketone (MEK, Butanone)	C
Methyl Ethyl Ketone Peroxide (MEKP)	D
Methyl Isobutyl Ketone	D
Methyl Isopropyl Ketone	A
Methyl Methacrylate	D
Methylamine	D
Methylene Chloride	B
Milk	A
Mineral Spirits	A
Molasses	A
Monochloroacetic Acid	D
Monoethanol Amine	D
Motor Oil	B
Mustard	C
Naphtha	A
Naphthalene	A
Natural Gas	B
Nickel Chloride	A
Nickel Sulfate	A
Nitrating Acid (H ₂ SO ₄), over 15%	D
Nitric Acid, 5-10%	D
Nitric Acid, 20%	D
Nitric Acid, 50%	D
Nitric Acid, concentrated	D
Nitrobenzene	C
Nitromethane	A
Octyl Alcohol	A

Chemical

Oils: Aniline	D
Oils: Anise	D
Oils: Bay	D
Oils: Bone	D
Oils: Castor	A
Oils: Cinnamon	D
Oils: Citric	A
Oils: Coconut	A
Oils: Cod Liver	B
Oils: Corn	A
Oils: Cottonseed	A
Oils: Creosote	D
Oils: Diesel Fuel (20, 30, 40, 50)	D
Oils: Fuel (1, 2, 3, 5A, 5B, 6)	D
Oils: Ginger	A
Oils: Hydraulic Oil, petroleum	B
Oils: Hydraulic Oil, synthetic	B
Oils: Lemon	D
Oils: Linseed	A
Oils: Mineral	A
Oils: Olive	A
Oils: Orange	D
Oils: Palm	A
Oils: Peanut	A
Oils: Peppermint	D
Oils: Pine	A
Oils: Rapeseed	A
Oils: Sesame Seed	D
Oils: Silicone	A
Oils: Soybean	A
Oils: Tanning	D
Oils: Transformer	A
Oils: Turbine	A
Oleic Acid	A
Oleum, 25%	D

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Oleum, 100%	D
Olive Oil	A
Orange Oil	D
Oxalic Acid, cold 10%	B
Ozone Gas	C
Palm Oil	A
Palmitic Acid	A
Paraffin	A
Peanut Oil	A
Pentane (amyl hydride) C ₅ H ₁₂	B
Peppermint Oil	D
Peracetic Acid (Peroxyacetic Acid)	D
Perchloric Acid	C
Peroxyacetic Acid (Peracetic Acid)	D
Petroleum	B
Phenol, 10%	B
Phenol (Carbolic Acid)	D
Phosphoric Acid, >40%	D
Phosphoric Acid, crude	D
Phosphoric Acid, S40%	D
Phosphoric Acid Anhydride	D
Phosphorus	B
Photographic Developer	D
Photographic Solutions	D
Phthalic Acid	C
Phthalic Anhydride	C
Picric Acid	A
Pine Oil	A
Potash (potassium carbonate)	
Potassium Bicarbonate	C
Potassium Bromide	A
Potassium Chlorate	B
Potassium Chloride, up to 30%	A
Potassium Chloride	A
Potassium Chromate	C

Chemical

Potassium Cyanide Solutions	C
Potassium Dichromate	A
Potassium Ferrocyanide	B
Potassium Hydroxide (caustic potash)	A
Potassium Nitrate, 10%	A
Potassium Nitrite	A
Potassium Permanganate	A
Potassium Sulfate	B
Propane, liquefied	A
Propylene (propene, methyl ethylene)	A
Propylene Glycol	B
Pyridine (C ₅ H ₅ N)	B
Pyrogallic Acid	D
Rapeseed Oil	A
Rosins	B
Rum	A
Rust Inhibitors	A
Salad Dressings	A
Salicylic Acid	D
Salt Brine (NaCl saturated)	A
Sea Water	A
Sesame Seed Oil	D
Shellac, bleached	A
Shellac, orange	A
Silicone	A
Silver Bromide	C
Silver Nitrate	A
Soap Solutions	A
Soda Ash (sodium carbonate)	A
Sodium Acetate	B
Sodium Aluminate	B
Sodium Bicarbonate (Baking Soda)	A
Sodium Bisulfate, 10%	B
Sodium Bisulfite	C
Sodium Bromide	A

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Sodium Carbonate	A
Sodium Chlorate	A
Sodium Chloride	A
Sodium Cyanide	A
Sodium Ferrocyanide	A
Sodium Hydroxide, 20%	A
Sodium Hydroxide, 50%	A
Sodium Hydroxide, 80%	D
Sodium Hypochlorite, <20%	D
Sodium Hypochlorite, 100%	D
Sodium Metaphosphate	B
Sodium Metasilicate	D
Sodium Nitrate	A
Sodium Perborate	B
Sodium Peroxide	D
Sodium Polyphosphate	B
Sodium Silicate (water glass)	C
Sodium Sulfate (salt cake, thenardite)	B
Sodium Sulfide	B
Sodium Sulfite	A
Sodium Thiosulfate (hypo)	C
Sorghum	A
Soy Sauce	A
Stannic Chloride	C
Stannic Fluoborate	C
Starch	A
Stearic Acid	A
Stoddard's Solvent	A
Styrene (Vinylbenzene) C ₆ H ₅ CHCH ₂	A
Sugar Liquids	A
Sulfite Liquors	D
Sulfur Chloride	D
Sulfur Dioxide	B
Sulfur Dioxide Gas, dry	B
Sulfur Dioxide Gas, wet	B

Chemical

Sulfur Trioxide, dry	D
Sulfuric Acid, <10%	D
Sulfuric Acid, 10-75%	D
Sulfuric Acid, 75-100%	D
Sulfuric Acid, cold concentrated	D
Sulfurous Acid, 10%	C
Sulfuryl Chloride	A
Tallow	A
Tannic Acid, 10%	B
Tanning Liquors	B
Tanning Oil	D
Tetrachloroethane	A
Tetrachloroethylene	A
Tetrahydrofuran	A
Toluene (Toluol)	C
Tomato Juice	B
Transformer Oil	A
Trichloroethane	A
Trichloroethylene	D
Trichloropropane	A
Tricresyl Phosphate	C
Triethylamine	D
Trisodium Phosphate	A
Turpentine (C ₁₀ H ₁₆)	A
Urea	A
Urine	A
Varnish	A
Vegetable Juice	A
Vinegar	B
Water, acid mine	A
Water, distilled (deionized)	A
Water, distilled	B
Water, fresh	A
Water, salt	A
Weed Killers	A

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