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Acetal (POM) Chemical Compatibility Chart

Chemical

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

Chemical

Ammonia, liquid	D
Ammonia Nitrate	С
Ammonium Acetate	С
Ammonium Bifluoride	D
Ammonium Carbonate	D
Ammonium Caseinate	D
Ammonium Chloride, 10%	В
Ammonium Hydroxide	D
Ammonium Nitrate, 10%	Α
Ammonium Oxalate	В
Ammonium Persulfate	D
Ammonium Phosphate, Dibasic	В
Ammonium Phosphate, Monobasic	В
Ammonium Phosphate, Tribasic	В
Ammonium Sulfate	В
Ammonium Sulfite	D
Ammonium Thiosulfate	В
Amyl Acetate	В
Amyl Alcohol	Α
Amyl Chloride	A
Aniline	Α
Aniline Oil	D
Anise Oil	D
Antifreeze	D
Aqua Regia (80% HCl, 20% HNO ₃)	D
Aromatic Hydrocarbons	A
Arsenic Acid	D
Asphalt	В
Barium Carbonate	Α
Barium Chloride	Α
Barium Cyanide	В
Barium Hydroxide	D
Barium Nitrate	В
Barium Sulfate	В

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Ammonia, anhydrous

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Barium Sulfide	А
Bay Oil	D
Beer	Α
Beet Sugar Liquids	В
Benzaldehyde	Α
Benzene	Α
Benzene Sulfonic Acid	С
Benzoic Acid	В
Benzol	Α
Benzyl Chloride	Α
Bone Oil	D
Borax (Sodium Borate)	В
Boric Acid, 10%	Α
Brewery Slop	В
Bromine Gas	D
Butadiene	Α
Butane Gas	Α
Butanol (Butyl Alcohol)	Α
Butter	Α
Buttermilk	Α
Butylene	Α
Butyl Acetate	Α
Butyl Amine	С
Butyl Ether	D
Butyric Acid, 20%	Α
Calcium Bisulfide	D
Calcium Bisulfite	D
Calcium Carbonate (Chalk) CaCO ₃	Α
Calcium Chlorate	Α
Calcium Chloride, 10%	D
Calcium Hydroxide (Lye), 10%	D
Calcium Hypochlorite	D
Calcium Nitrate	D
Calcium Oxide (Unslaked Lime) CaO	А
Calcium Sulfate, 10%	D
Calgon	А
Cane Juice	Α

Chemical

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

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Copper Sulfate, 5%	D
Copper Sulfate, over 5%	D
Cream	Α
Creosote Oil	D
Cresols	D
Cresylic Acid	D
Cyanic Acid	D
Cyclohexane	Α
Cyclohexanone	Α
Detergents	Α
Diacetone Alcohol	Α
Dichlorobenzene	B
Dichloroethane	Α
Diesel Fuel	Α
Diethyl Ether	Α
Diethylamine	В
Diethylene Glycol	Α
Dimethyl Aniline	D
Dimethylformamide	D
Diphenyl Oxide	D
Dyes	С
Epsom Salts (magnesium sulfate)	В
Ethane	Α
Ethanol (ethyl alcohol)	A
Ethanolamine	D
Ether	A
Ethyl Acetate	Α
Ethyl Benzoate	A
Ethyl Chloride	Α
Ethyl Ether	Α
Ethylene Chloride	Α
Ethylene Chlorohydrin	D
Ethyl Diamine	D
Ethylene Dichloride	В
Ethylene Glycol	В
Ethylene Oxide Gas (EtO), dry 3%	D
Fatty Acids	Α

Chemical

Ferric Chloride, 10%	D
Ferric Nitrate	D
Ferric Sulfate	D
Ferrous Chloride	D
Ferrous Sulfate	D
Fluobric Acid	Α
Fluorine Gas	D
Fluosilicic Acid, 20%	В
Fluosilicic Acid, 100%	Α
Formaldehyde, 40%	Α
Formaldehyde, 100%	Α
Formic Acid (methanoic acid), 10%	А
Freon 11	D
Freon 12	В
Freon 22	Α
Freon TF	А
Fruit Juices	D
Fuel Oils	А
Furan Resin	D
Furfural (ant oil) C ₅ H ₄ O ₂	А
Gasoline, high-aromatic	В
Gasoline, leaded	А
Gasoline, unleaded	Α
Gelatin	В
Ginger Oil	Α
Glucose	А
Glue, PVA (polyvinyl acetate)	Α
Glycerin	Α
Glycolic Acid	Α
Gold Monocyanide	Α
Grape Juice	Α
Grease	D
Heptane	Α
Hexane	Α
Hexyl Alcohol	Α
Honey	Α
Hydraulic Oil, petroleum based	В

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Chemical

Hydraulic Oil, synthetic	В
Hydrazine (Diamine) H ₂ NNH ₂	В
Hydrobromic Acid, 20%	С
Hydrobromic Acid, 100%	D
Hydrochloric Acid, 20%	С
Hydrochloric Acid, 37%	С
Hydrochloric Acid, 100%	С
Hydrocyanic Acid	Α
Hydrocyanic Acid Gas, 10%	С
Hydrofluoric Acid, 20%	D
Hydrofluoric Acid, 50%	D
Hydrofluoric Acid, 75%	D
Hydrofluoric Acid, 100%	D
Hydrofluosilicic Acid, 20%	В
Hydrofluosilicic Acid, 100%	Α
Hydrogen Peroxide, 10%	D
Hydrogen Peroxide, 30%	D
Hydrogen Peroxide, 50%	D
Hydrogen Peroxide, 100%	D
Hydrogen Sulfide, aqueous	С
Hydrogen Sulfide, dry	Α
Hydroquinone	Α
Hydroxyacetic Acid, 70%	Α
Ink	В
lodine	D
lodine, in alcohol	D
Isopropyl Acetate	D
Isopropyl Ether	D
Jet Fuel (JP3, JP4, JP5)	Α
Kerosene	Α
Ketones	D
Lacquer Thinners	D
Lacquers	D
Lactic Acid	В
Lard	Α
Latex	В
Lead Acetate	В
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Chemical

Chemical	
Lead Sulfamate	Α
Lemon Oil	D
Ligroin	В
Lime (CaO)	В
Linoleic Acid	В
Linseed Oil	Α
Lithium Chloride	Α
Lubricants	Α
Lye (Ca(OH)2, calcium hydroxide)	D
Lye (KOH, potassium hydroxide)	Α
Lye (NaOH, sodium hydroxide)	С
Magnesium Carbonate	Α
Magnesium Chloride, 10%	В
Magnesium Hydroxide, 10%	Α
Magnesium Nitrate	Α
Magnesium Oxide	Α
Magnesium Sulfate (Epsom salts)	В
Maleic Acid	Α
Maleic Anhydride	D
Malic Acid (Apple Acid) C ₄ H ₆ O ₅	Α
Manganese Sulfate	Α
Mash	Α
Mayonnaise	Α
Melamine	Α
Mercuric chloride, dilute	В
Mercury	Α
Methane Gas	Α
Methanol (methyl alcohol)	Α
Methyl Acetate	В
Methyl Acetone (mixture)	D
Methyl Acrylate	В
Methyl Alcohol, 10%	Α
Methyl Bromide	D
Methyl Butyl Ketone	D
Methyl Cellosolve	D
Methyl Chloride	В
Methyl Dichloride	D
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Chemical

Methyl Ethyl Ketone (MEK, Butanone)	С
Methyl Ethyl Ketone Peroxide (MEKP)	D
Methyl Isobutyl Ketone	D
Methyl Isopropyl Ketone	Α
Methyl Methacrylate	D
Methylamine	D
Methylene Chloride	В
Milk	Α
Mineral Spirits	Α
Molasses	Α
Monochloroacetic Acid	D
Monoethanol Amine	D
Motor Oil	В
Mustard	С
Naphtha	Α
Naphthalene	Α
Natural Gas	В
Nickel Chloride	Α
Nickel Sulfate	Α
Nitrating Acid (H2SO4), over 15%	D
Nitric Acid, 5-10%	D
Nitric Acid, 20%	D
Nitric Acid, 50%	D
Nitric Acid, concentrated	D
Nitrobenzene	С
Nitromethane	Α
Octyl Alcohol	Α
Oils: Aniline	D
Oils: Anise	D
Oils: Bay	D
Oils: Bone	D
Oils: Castor	Α
Oils: Cinnamon	D
Oils: Citric	Α
Oils: Coconut	Α
Oils: Cod Liver	В
Oils: Corn	Α

Chemical

Oils: Cottonseed	Α
Oils: Creosote	D
Oils: Diesel Fuel (20, 30, 40, 50)	D
Oils: Fuel (1, 2, 3, 5A, 5B, 6)	D
Oils: Ginger	Α
Oils: Hydraulic Oil, petroleum	В
Oils: Hydraulic Oil, synthetic	В
Oils: Lemon	D
Oils: Linseed	Α
Oils: Mineral	Α
Oils: Olive	Α
Oils: Orange	D
Oils: Palm	Α
Oils: Peanut	Α
Oils: Peppermint	D
Oils: Pine	Α
Oils: Rapeseed	Α
Oils: Sesame Seed	D
Oils: Silicone	Α
Oils: Soybean	Α
Oils: Tanning	D
Oils: Transformer	Α
Oils: Turbine	Α
Oleic Acid	Α
Oleum, 25%	D
Oleum, 100%	D
Olive Oil	Α
Orange Oil	D
Oxalic Acid, cold 10%	В
Ozone Gas	С
Palm Oil	Α
Palmitic Acid	Α
Paraffin	Α
Peanut Oil	Α
Pentane (amyl hydride) C ₅ H ₁₂	В
Peppermint Oil	D
Peracetic Acid (Peroxyacetic Acid)	D
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Chemical

Perchloric Acid	С
Peroxyacetic Acid (Peracetic Acid)	D
Petroleum	В
Phenol, 10%	B
Phenol (Carbolic Acid)	D
Phosphoric Acid, >40%	D
Phosphoric Acid, crude	D
Phosphoric Acid, S40%	D
Phosphoric Acid Anhydride	D
Phosphorus	В
Photographic Developer	D
Photographic Solutions	D
Phthalic Acid	С
Phthalic Anhydride	С
Picric Acid	Α
Pine Oil	Α
Potash (potassium carbonate)	
Potassium Bicarbonate	С
Potassium Bromide	Α
Potassium Chlorate	В
Potassium Chloride, up to 30%	Α
Potassium Chloride	Α
Potassium Chromate	С
Potassium Cyanide Solutions	С
Potassium Dichromate	Α
Potassium Ferrocyanide	В
Potassium Hydroxide (caustic potash)	Α
Potassium Nitrate, 10%	Α
Potassium Nitrite	Α
Potassium Permanganate	Α
Potassium Sulfate	В
Propane, liquefied	Α
Propylene (propene, methyl ethylene)	Α
Propylene Glycol	В
Pyridine (C ₅ H ₅ N)	В
Pyrogallic Acid	D
Rapeseed Oil	Α

Chemical

Rosins	В
Rum	Α
Rust Inhibitors	A
Salad Dressings	Α
Salicylic Acid	D
Salt Brine (NaCl saturated)	Α
Sea Water	Α
Sesame Seed Oil	D
Shellac, bleached	Α
Shellac, orange	Α
Silicone	Α
Silver Bromide	С
Silver Nitrate	Α
Soap Solutions	А
Soda Ash (sodium carbonate)	Α
Sodium Acetate	В
Sodium Aluminate	В
Sodium Bicarbonate (Baking Soda)	А
Sodium Bisulfate, 10%	В
Sodium Bisulfite	С
Sodium Bromide	Α
Sodium Carbonate	А
Sodium Chlorate	Α
Sodium Chloride	А
Sodium Cyanide	Α
Sodium Ferrocyanide	Α
Sodium Hydroxide, 20%	Α
Sodium Hydroxide, 50%	Α
Sodium Hydroxide, 80%	D
Sodium Hypochlorite, <20%	D
Sodium Hypochlorite, 100%	D
Sodium Metaphosphate	В
Sodium Metasilicate	D
Sodium Nitrate	А
Sodium Perborate	В
Sodium Peroxide	D
Sodium Polyphosphate	В

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Chemical

Sodium Silicate (water glass)	С
Sodium Sulfate (salt cake, thenardite)	В
Sodium Sulfide	В
Sodium Sulfite	Α
Sodium Thiosulfate (hypo)	С
Sorghum	Α
Soy Sauce	Α
Stannic Chloride	С
Stannic Fluoborate	С
Starch	Α
Stearic Acid	Α
Stoddard's Solvent	Α
Styrene (Vinylbenzene) C ₆ H ₅ CHCH ₂	Α
Sugar Liquids	Α
Sulfite Liquors	D
Sulfur Chloride	D
Sulfur Dioxide	В
Sulfur Dioxide Gas, dry	В
Sulfur Dioxide Gas, wet	В
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%	С
Sulfuryl Chloride	Α
Tallow	Α
Tannic Acid, 10%	В
Tanning Liquors	В
Tanning Oil	D
Tetrachloroethane	Α

Chemical

	
Tetrachloroethylene	A
Tetrahydrofuran	Α
Toluene (Toluol)	С
Tomato Juice	В
Transformer Oil	Α
Trichloroethane	Α
Trichloroethylene	D
Trichloropropane	Α
Tricresyl Phosphate	С
Triethylamine	D
Trisodium Phosphate	Α
Turpentine (C0H16)	Α
Urea	Α
Urine	Α
Varnish	Α
Vegetable Juice	Α
Vinegar	В
Water, acid mine	Α
Water, distilled (deionized)	Α
Water, distilled	В
Water, fresh	Α
Water, salt	Α
Weed Killers	Α
Whey	А
Whiskey and Wines	Α
White Liquor (Pulp Mill)	D
White Water (Paper Mill)	В
Xylene (xylol, dimethylbenzene)	А
Zinc Chloride, 10%	С
Zinc Hydrosulfite	С
Zinc Sulfate, 10%	С

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