

CHEMICAL	COMPATIBILITY
Acetaldehyde	A-Excellent
Acetamide	A-Excellent
Acetate Solvent	A-Excellent
Acetic Acid	D-Severe Effect
Acetic Acid 20%	D-Severe Effect
Acetic Acid 80%	D-Severe Effect
Acetic Acid, Glacial	B-Good
Acetic Anhydride	A-Excellent
Acetone	A-Excellent
Acetyl Bromide	D-Severe Effect
Acetyl Chloride (dry)	B-Good
Acetylene	A-Excellent
Acrylonitrile	A-Excellent
Alcohols:Amyl	A-Excellent
Alcohols:Benzyl	B-Good
Alcohols:Butyl	D-Severe Effect
Alcohols:Diacetone	A-Excellent
Alcohols:Ethyl	A-Excellent
Alcohols:Hexyl	A-Excellent
Alcohols:Isobutyl	A-Excellent
Alcohols:Isopropyl	D-Severe Effect
Alcohols:Methyl	B-Good
Alcohols:Octyl	A-Excellent
Alcohols:Propyl	D-Severe Effect
Aluminum Chloride	B-Good
Aluminum Chloride 20%	D-Severe Effect
Aluminum Fluoride	A-Excellent
Aluminum Hydroxide	A-Excellent
Aluminum Nitrate	A-Excellent
Aluminum Potassium Sulfate 10%	D-Severe Effect
Aluminum Potassium Sulfate 100%	D-Severe Effect
Aluminum Sulfate	A-Excellent
Alums	A-Excellent
Amines	D-Severe Effect
Ammonia 10%	A-Excellent
Ammonia Nitrate	D-Severe Effect
Ammonia, anhydrous	A-Excellent
Ammonia, liquid	B-Good
Ammonium Acetate	A-Excellent
Ammonium Carbonate	A-Excellent
Ammonium Chloride	B-Good
Ammonium Hydroxide	A-Excellent
Ammonium Nitrate	A-Excellent
Ammonium Persulfate	D-Severe Effect
Ammonium Phosphate, Dibasic	C-Fair

Ammonium Phosphate, Monobasic	B-Good
Ammonium Phosphate, Tribasic	B-Good
Ammonium Sulfate	A-Excellent
Ammonium Sulfite	A-Excellent
Amyl Acetate	B-Good
Amyl Alcohol	A-Excellent
Amyl Chloride	C-Fair
Aniline	A-Excellent
Aniline Hydrochloride	D-Severe Effect
Antifreeze	D-Severe Effect
Antimony Trichloride	D-Severe Effect
Aqua Regia (80% HCl, 20% HNO3)	D-Severe Effect
Arochlor 1248	A-Excellent
Arsenic Acid	C-Fair
Arsenic Salts	A-Excellent
Asphalt	A-Excellent
Barium Carbonate	A-Excellent
Barium Chloride	A-Excellent
Barium Cyanide	A-Excellent
Barium Hydroxide	A-Excellent
Barium Nitrate	A-Excellent
Barium Sulfate	A-Excellent
Barium Sulfide	A-Excellent
Beer	A-Excellent
Beet Sugar Liquids	A-Excellent
Benzaldehyde	A-Excellent
Benzene	A-Excellent
Benzene Sulfonic Acid	D-Severe Effect
Benzoic Acid	D-Severe Effect
Benzol	D-Severe Effect
Benzyl Chloride	A-Excellent
Bleaching Liquors	C-Fair
Borax (Sodium Borate)	A-Excellent
Boric Acid	B-Good
Bromine	D-Severe Effect
Butadiene	C-Fair
Butane	A-Excellent
Butanol (Butyl Alcohol)	B-Good
Buttermilk	B-Good
Butyl Amine	A-Excellent
Butyl Ether	A-Excellent
Butyl Phthalate	A-Excellent
Butylacetate	A-Excellent
Butylene	B-Good
Butyric Acid	C-Fair
Calcium Bisulfide	A-Excellent
Calcium Bisulfite	A-Excellent

Calcium Carbonate	A-Excellent
Calcium Chloride	A-Excellent
Calcium Hydroxide	A-Excellent
Calcium Hypochlorite	D-Severe Effect
Calcium Nitrate	A-Excellent
Calcium Oxide	B-Good
Calcium Sulfate	D-Severe Effect
Calgon	A-Excellent
Cane Juice	A-Excellent
Carbolic Acid (Phenol)	D-Severe Effect
Carbon Bisulfide	A-Excellent
Carbon Dioxide (dry)	A-Excellent
Carbon Dioxide (wet)	A-Excellent
Carbon Disulfide	B-Good
Carbon Monoxide	A-Excellent
Carbon Tetrachloride	D-Severe Effect
Carbonated Water	A-Excellent
Carbonic Acid	A-Excellent
Catsup	A-Excellent
Chloric Acid	D-Severe Effect
Chlorine (dry)	D-Severe Effect
Chlorine Water	C-Fair
Chlorine, Anhydrous Liquid	D-Severe Effect
Chloroacetic Acid	D-Severe Effect
Chlorobenzene (Mono)	D-Severe Effect
Chlorobromomethane	C-Fair
Chloroform	A-Excellent
Chlorosulfonic Acid	D-Severe Effect
Chocolate Syrup	A-Excellent
Chromic Acid 10%	D-Severe Effect
Chromic Acid 30%	D-Severe Effect
Chromic Acid 5%	D-Severe Effect
Chromic Acid 50%	D-Severe Effect
Chromium Salts	B-Good
Cider	A-Excellent
Citric Acid	A-Excellent
Cloroxr (Bleach)	A-Excellent
Coffee	A-Excellent
Copper Chloride	D-Severe Effect
Copper Cyanide	D-Severe Effect
Copper Nitrate	D-Severe Effect
Copper Sulfate >5%	D-Severe Effect
Copper Sulfate 5%	D-Severe Effect
Cream	A-Excellent
Cresols	D-Severe Effect
Cresylic Acid	D-Severe Effect
Cupric Acid	D-Severe Effect

Cyclohexane	A-Excellent
Cyclohexanone	A-Excellent
Detergents	A-Excellent
Diacetone Alcohol	A-Excellent
Dichlorobenzene	D-Severe Effect
Dichloroethane	A-Excellent
Diesel Fuel	A-Excellent
Diethyl Ether	A-Excellent
Diethylamine	A-Excellent
Diethylene Glycol	A-Excellent
Dimethyl Aniline	A-Excellent
Dimethyl Formamide	A-Excellent
Dyes	A-Excellent
Epsom Salts (Magnesium Sulfate)	A-Excellent
Ethane	D-Severe Effect
Ethanol	A-Excellent
Ethanolamine	A-Excellent
Ether	A-Excellent
Ethyl Acetate	A-Excellent
Ethyl Chloride	A-Excellent
Ethyl Ether	A-Excellent
Ethylene Chloride	A-Excellent
Ethylene Chlorohydrin	D-Severe Effect
Ethylene Diamine	D-Severe Effect
Ethylene Dichloride	A-Excellent
Ethylene Glycol	A-Excellent
Ethylene Oxide	A-Excellent
Fatty Acids	A-Excellent
Ferric Chloride	A-Excellent
Ferric Nitrate	A-Excellent
Ferric Sulfate	A-Excellent
Ferrous Chloride	D-Severe Effect
Ferrous Sulfate	D-Severe Effect
Fluoboric Acid	D-Severe Effect
Fluorine	D-Severe Effect
Fluosilicic Acid	D-Severe Effect
Formaldehyde 100%	D-Severe Effect
Formaldehyde 40%	A-Excellent
Formic Acid	D-Severe Effect
Freon 12	A-Excellent
Freon 22	B-Good
Freon TF	D-Severe Effect
Freonr 11	D-Severe Effect
Fruit Juice	A-Excellent
Fuel Oils	A-Excellent
Furfural	B-Good
Gallic Acid	A-Excellent

Gasoline (high-aromatic)	A-Excellent
Gasoline, leaded, ref.	A-Excellent
Gasoline, unleaded	A-Excellent
Gelatin	A-Excellent
Glucose	A-Excellent
Glue, P.V.A.	A-Excellent
Glycerin	A-Excellent
Grape Juice	A-Excellent
Heptane	A-Excellent
Hexane	B-Good
Honey	A-Excellent
Hydraulic Oil (Petro)	A-Excellent
Hydraulic Oil (Synthetic)	A-Excellent
Hydrobromic Acid 100%	D-Severe Effect
Hydrobromic Acid 20%	D-Severe Effect
Hydrochloric Acid 100%	D-Severe Effect
Hydrochloric Acid 20%	D-Severe Effect
Hydrochloric Acid 37%	D-Severe Effect
Hydrochloric Acid, Dry Gas	A-Excellent
Hydrocyanic Acid	B-Good
Hydrofluoric Acid 100%	D-Severe Effect
Hydrofluoric Acid 20%	C-Fair
Hydrofluoric Acid 50%	D-Severe Effect
Hydrofluoric Acid 75%	D-Severe Effect
Hydrofluosilicic Acid 100%	D-Severe Effect
Hydrofluosilicic Acid 20%	D-Severe Effect
Hydrogen Gas	A-Excellent
Hydrogen Peroxide 10%	C-Fair
Hydrogen Peroxide 100%	D-Severe Effect
Hydrogen Peroxide 30%	D-Severe Effect
Hydrogen Peroxide 50%	D-Severe Effect
Hydrogen Sulfide (aqua)	C-Fair
Hydrogen Sulfide (dry)	C-Fair
Hydroquinone	D-Severe Effect
Ink	C-Fair
Iodine	A-Excellent
Iodine (in alcohol)	C-Fair
Isooctane	A-Excellent
Isopropyl Acetate	B-Good
Isopropyl Ether	A-Excellent
Isotane	D-Severe Effect
Jet Fuel (JP3, JP4, JP5)	C-Fair
Kerosene	A-Excellent
Ketones	A-Excellent
Lacquer Thinners	A-Excellent
Lacquers	A-Excellent
Lactic Acid	B-Good

Lard	A-Excellent
Latex	A-Excellent
Lead Acetate	A-Excellent
Lead Sulfamate	B-Good
Ligroin	D-Severe Effect
Lime	A-Excellent
Lubricants	A-Excellent
Lye: Ca(OH) ₂ Calcium Hydroxide	A-Excellent
Lye: KOH Potassium Hydroxide	C-Fair
Lye: NaOH Sodium Hydroxide	A-Excellent
Magnesium Bisulfate	A-Excellent
Magnesium Chloride	A-Excellent
Magnesium Hydroxide	B-Good
Magnesium Nitrate	A-Excellent
Magnesium Sulfate (Epsom Salts)	A-Excellent
Maleic Acid	A-Excellent
Malic Acid	A-Excellent
Manganese Sulfate	A-Excellent
Mash	A-Excellent
Mayonnaise	A-Excellent
Melamine	A-Excellent
Mercuric Chloride (dilute)	D-Severe Effect
Mercuric Cyanide	A-Excellent
Mercury	A-Excellent
Methane	A-Excellent
Methanol (Methyl Alcohol)	B-Good
Methyl Acetate	A-Excellent
Methyl Acetone	A-Excellent
Methyl Alcohol 10%	B-Good
Methyl Bromide	B-Good
Methyl Butyl Ketone	D-Severe Effect
Methyl Cellosolve	C-Fair
Methyl Chloride	B-Good
Methyl Dichloride	C-Fair
Methyl Ethyl Ketone	A-Excellent
Methyl Isobutyl Ketone	B-Good
Methyl Isopropyl Ketone	A-Excellent
Methylene Chloride	C-Fair
Milk	A-Excellent
Mineral Spirits	A-Excellent
Molasses	A-Excellent
Monochloroacetic acid	D-Severe Effect
Monoethanolamine	A-Excellent
Morpholine	A-Excellent
Motor oil	A-Excellent
Mustard	A-Excellent
Naphtha	A-Excellent

Naphthalene	A-Excellent
Nickel Chloride	C-Fair
Nickel Nitrate	A-Excellent
Nickel Sulfate	A-Excellent
Nitric Acid (20%)	D-Severe Effect
Nitric Acid (50%)	D-Severe Effect
Nitric Acid (5-10%)	D-Severe Effect
Nitric Acid (Concentrated)	D-Severe Effect
Nitrobenzene	B-Good
Nitromethane	B-Good
Nitrous Oxide	C-Fair
Oils:Aniline	A-Excellent
Oils:Castor	A-Excellent
Oils:Citric	A-Excellent
Oils:Corn	A-Excellent
Oils:Cottonseed	B-Good
Oils:Creosote	D-Severe Effect
Oils:Diesel Fuel (20, 30, 40, 50)	A-Excellent
Oils:Fuel (1, 2, 3, 5A, 5B, 6)	A-Excellent
Oils:Hydraulic Oil (Petro)	A-Excellent
Oils:Hydraulic Oil (Synthetic)	A-Excellent
Oils:Linseed	A-Excellent
Oils:Mineral	A-Excellent
Oils:Olive	A-Excellent
Oils:Pine	A-Excellent
Oils:Rosin	A-Excellent
Oils:Silicone	A-Excellent
Oils:Soybean	A-Excellent
Oils:Transformer	A-Excellent
Oils:Turbine	A-Excellent
Oleic Acid	A-Excellent
Oleum 100%	D-Severe Effect
Oleum 25%	D-Severe Effect
Oxalic Acid (cold)	B-Good
Ozone	D-Severe Effect
Palmitic Acid	A-Excellent
Paraffin	A-Excellent
Pentane	A-Excellent
Perchloric Acid	D-Severe Effect
Perchloroethylene	C-Fair
Petrolatum	D-Severe Effect
Petroleum	A-Excellent
Phenol (10%)	D-Severe Effect
Phenol (Carbolic Acid)	D-Severe Effect
Phosphoric Acid (>40%)	B-Good
Phosphoric Acid (crude)	B-Good
Phosphoric Acid (S40%)	B-Good

Photographic Solutions	A-Excellent
Phthalic Acid	B-Good
Picric Acid	C-Fair
Plating Solutions, Antimony Plating 130°F	D-Severe Effect
Plating Solutions, Arsenic Plating 110°F	A-Excellent
Plating Solutions, Brass Plating: High-Speed Brass Bath 110°F	A-Excellent
Plating Solutions, Brass Plating: Regular Brass Bath 100°F	A-Excellent
Plating Solutions, Bronze Plating: Cu-Cd Bronze Bath R.T.	A-Excellent
Plating Solutions, Bronze Plating: Cu-Sn Bronze Bath 160°F	A-Excellent
Plating Solutions, Bronze Plating: Cu-Zn Bronze Bath 100°F	A-Excellent
Plating Solutions, Cadmium Plating: Cyanide Bath 90°F	A-Excellent
Plating Solutions, Cadmium Plating: Fluoborate Bath 100°F	D-Severe Effect
Plating Solutions, Chromium Plating: Barrel Chrome Bath 95°F	D-Severe Effect
Plating Solutions, Chromium Plating: Black Chrome Bath 115°F	D-Severe Effect
Plating Solutions, Chromium Plating: Chromic-Sulfuric Bath 130°F	D-Severe Effect
Plating Solutions, Chromium Plating: Fluoride Bath 130°F	D-Severe Effect
Plating Solutions, Chromium Plating: Fluosilicate Bath 95°F	D-Severe Effect
Plating Solutions, Copper Plating (Acid): Copper Fluoborate Bath 120°F	D-Severe Effect
Plating Solutions, Copper Plating (Acid): Copper Sulfate Bath R.T.	D-Severe Effect
Plating Solutions, Copper Plating (Cyanide): Copper Strike Bath 120°F	A-Excellent
Plating Solutions, Copper Plating (Cyanide): High-Speed Bath 180°F	A-Excellent
Plating Solutions, Copper Plating (Cyanide): Rochelle Salt Bath 150°F	A-Excellent
Plating Solutions, Copper Plating (Misc): Copper (Electroless)	A-Excellent
Plating Solutions, Copper Plating (Misc): Copper Pyrophosphate	A-Excellent
Plating Solutions, Gold Plating: Acid 75°F	A-Excellent
Plating Solutions, Gold Plating: Cyanide 150°F	A-Excellent
Plating Solutions, Gold Plating: Neutral 75°F	A-Excellent
Plating Solutions, Indium Sulfamate Plating R.T.	D-Severe Effect
Plating Solutions, Iron Plating: Ferrous Am Sulfate Bath 150°F	D-Severe Effect
Plating Solutions, Iron Plating: Ferrous Chloride Bath 190°F	D-Severe Effect
Plating Solutions, Iron Plating: Ferrous Sulfate Bath 150°F	D-Severe Effect
Plating Solutions, Iron Plating: Fluoborate Bath 145°F	D-Severe Effect
Plating Solutions, Iron Plating: Sulfamate 140°F	D-Severe Effect
Plating Solutions, Iron Plating: Sulfate-Chloride Bath 160°F	D-Severe Effect
Plating Solutions, Lead Fluoborate Plating	D-Severe Effect
Plating Solutions, Nickel Plating: Electroless 200°F	D-Severe Effect
Plating Solutions, Nickel Plating: Fluoborate 100-170°F	D-Severe Effect
Plating Solutions, Nickel Plating: High-Chloride 130-160°F	D-Severe Effect
Plating Solutions, Nickel Plating: Sulfamate 100-140°F	A-Excellent
Plating Solutions, Nickel Plating: Watts Type 115-160°F	A-Excellent
Plating Solutions, Rhodium Plating 120°F	D-Severe Effect
Plating Solutions, Silver Plating 80-120°F	A-Excellent
Plating Solutions, Tin-Fluoborate Plating 100°F	D-Severe Effect
Plating Solutions, Tin-Lead Plating 100°F	D-Severe Effect
Plating Solutions, Zinc Plating: Acid Chloride 140°F	D-Severe Effect
Plating Solutions, Zinc Plating: Acid Fluoborate Bath R.T.	D-Severe Effect
Plating Solutions, Zinc Plating: Acid Sulfate Bath 150°F	D-Severe Effect

Plating Solutions, Zinc Plating: Alkaline Cyanide Bath R.T.	A-Excellent
Potash (Potassium Carbonate)	A-Excellent
Potassium Bicarbonate	A-Excellent
Potassium Bromide	A-Excellent
Potassium Chlorate	C-Fair
Potassium Chloride	A-Excellent
Potassium Chromate	B-Good
Potassium Cyanide Solutions	A-Excellent
Potassium Dichromate	B-Good
Potassium Ferricyanide	B-Good
Potassium Ferrocyanide	B-Good
Potassium Hydroxide (Caustic Potash)	C-Fair
Potassium Hypochlorite	B-Good
Potassium Iodide	A-Excellent
Potassium Nitrate	B-Good
Potassium Permanganate	D-Severe Effect
Potassium Sulfate	A-Excellent
Potassium Sulfide	A-Excellent
Propane (liquefied)	A-Excellent
Propylene Glycol	A-Excellent
Pyridine	C-Fair
Resorcinal	D-Severe Effect
Rosins	A-Excellent
Rum	A-Excellent
Salad Dressings	A-Excellent
Salicylic Acid	A-Excellent
Salt Brine (NaCl saturated)	A-Excellent
Sea Water	A-Excellent
Shellac (Bleached)	A-Excellent
Shellac (Orange)	A-Excellent
Silicone	A-Excellent
Silver Nitrate	A-Excellent
Soap Solutions	A-Excellent
Soda Ash (see Sodium Carbonate)	B-Good
Sodium Acetate	B-Good
Sodium Aluminate	A-Excellent
Sodium Benzoate	B-Good
Sodium Bicarbonate	A-Excellent
Sodium Bisulfate	A-Excellent
Sodium Bisulfite	C-Fair
Sodium Borate (Borax)	A-Excellent
Sodium Bromide	B-Good
Sodium Carbonate	B-Good
Sodium Chlorate	D-Severe Effect
Sodium Chloride	A-Excellent
Sodium Chromate	C-Fair
Sodium Cyanide	A-Excellent

Sodium Fluoride	B-Good
Sodium Hydrosulfite	A-Excellent
Sodium Hydroxide (20%)	A-Excellent
Sodium Hydroxide (50%)	A-Excellent
Sodium Hydroxide (80%)	C-Fair
Sodium Hypochlorite (<20%)	D-Severe Effect
Sodium Hypochlorite (100%)	D-Severe Effect
Sodium Metaphosphate	A-Excellent
Sodium Nitrate	A-Excellent
Sodium Perborate	B-Good
Sodium Peroxide	A-Excellent
Sodium Polyphosphate	A-Excellent
Sodium Silicate	A-Excellent
Sodium Sulfate	A-Excellent
Sodium Sulfide	A-Excellent
Sodium Sulfite	D-Severe Effect
Sodium Tetraborate	A-Excellent
Sodium Thiosulfate (hypo)	B-Good
Sorghum	A-Excellent
Soy Sauce	A-Excellent
Stannic Chloride	B-Good
Stannous Chloride	C-Fair
Starch	A-Excellent
Stearic Acid	A-Excellent
Stoddard Solvent	A-Excellent
Styrene	A-Excellent
Sugar (Liquids)	A-Excellent
Sulfate (Liquors)	B-Good
Sulfur Chloride	A-Excellent
Sulfur Dioxide	C-Fair
Sulfur Dioxide (dry)	B-Good
Sulfur Hexafluoride	B-Good
Sulfur Trioxide	D-Severe Effect
Sulfur Trioxide (dry)	A-Excellent
Sulfuric Acid (<10%)	C-Fair
Sulfuric Acid (10-75%)	D-Severe Effect
Sulfuric Acid (75-100%)	D-Severe Effect
Sulfuric Acid (cold concentrated)	D-Severe Effect
Sulfuric Acid (hot concentrated)	D-Severe Effect
Sulfurous Acid	D-Severe Effect
Tallow	A-Excellent
Tannic Acid	C-Fair
Tanning Liquors	A-Excellent
Tartaric Acid	B-Good
Tetrachloroethane	C-Fair
Tetrachloroethylene	A-Excellent
Tetrahydrofuran	A-Excellent

Toluene (Toluol)	A-Excellent
Tomato Juice	A-Excellent
Trichloroacetic Acid	C-Fair
Trichloroethane	C-Fair
Trichloroethylene	C-Fair
Tricresylphosphate	A-Excellent
Triethylamine	A-Excellent
Trisodium Phosphate	A-Excellent
Turpentine	B-Good
Urea	A-Excellent
Uric Acid	A-Excellent
Urine	B-Good
Varnish	A-Excellent
Vegetable Juice	A-Excellent
Vinegar	A-Excellent
Vinyl Chloride	A-Excellent
Water, Acid, Mine	A-Excellent
Water, Deionized	A-Excellent
Water, Distilled	A-Excellent
Water, Fresh	A-Excellent
Water, Salt	A-Excellent
Weed Killers	A-Excellent
Whiskey & Wines	A-Excellent
White Liquor (Pulp Mill)	A-Excellent
White Water (Paper Mill)	A-Excellent
Xylene	A-Excellent
Zinc Chloride	A-Excellent
Zinc Hydrosulfite	A-Excellent
Zinc Sulfate	A-Excellent