

# Chemical Compatibility of the Tubing Materials

1: excellent; 2: good; 3: fair; 4: not recommended

Name	Tygon LFL	Tygon ST R-3603	PharMed	Tygon HC F-4040-A	Tygon MH 2075	Tygon SI Silicone Platinum	Silicone Peroxide	Norprene A-60-G	Flurane F-5500-A (Viton)
Acetaldehyde	4	4	4	4	3	3	3	4	4
Acetamide, 67% in w	4	4	2	4	1	1	1	2	4
Acetate Solvents	4	4	2	4	4	4	4	2	4
Acetic Acid, 10% in w	1	1	1	1	1	1	1	1	4
Acetic Acid, 50-60% in w	1	1	2	1	1	1	1	2	4
Acetic Acid, Glacial, 100%	4	4	2	4	1	4	4	2	4
Acetic Anhydride	4	4	1	4	1	1	1	1	4
Acetone	4	4	4	4	2	3	3	4	4
Acetonitrile	4	4	4	4	4	4	4	4	2
Acetyl Bromide	4	4	3	4	4	4	4	3	4
Acetyl Chloride	4	4	3	4	4	4	4	3	4
Acetylene Gas	1	1	1	1	1	1	1	1	1
Acrylonitrile	4	4	4	4	4	4	4	4	2
Adipic Acid, 100% in alc	4	4	2	3	4	4	4	2	4
Air	1	1	1	1	1	1	1	1	1
Alcohols General	4	4	1	2	1	2	2	1	4
Aliphatic Hydrocarbons	4	4	4	2	4	4	4	4	2
Allyl Alcohol	4	4	3	1	1	4	4	3	1
Alum, 5% in w	1	1	1	1	1	1	1	1	1
Aluminum Chloride, 53% in w	1	1	1	1	1	1	1	1	1
Aluminum Hydroxide, 2% in w	1	1	1	1	1	1	1	1	1
Aluminum Salts	1	1	1	1	1	1	1	1	1
Aluminum Sulfate, 50% in w	1	1	1	1	1	1	1	1	1
Amines	4	4	3	4	4	4	4	3	4
Ammonia Gas	1	1	1	1	1	4	4	1	4
Ammonia, Anhydrous Liquid	2	2	1	2	2	4	4	2	4
Ammonium Acetate, 45% in w	1	1	1	1	1	1	1	1	4
Ammonium Carbonate, 20% in w	1	1	1	1	1	1	1	1	1
Ammonium Hydroxide, 30% in w	1	1	1	3	1	4	4	1	4
Ammonium Hydroxide, 5-10% in w	1	1	1	2	1	4	4	1	4
Ammonium Persulfate, 30% in w	1	1	1	1	1	1	1	1	1
Ammonium Salts	1	1	1	1	1	1	1	1	1
Ammonium Sulfate, 30% in w	1	1	1	1	1	1	1	1	1
Amyl Acetate	4	4	2	4	4	4	4	2	4
Amyl Alcohol	4	4	4	1	1	4	4	4	1
Amyl Chloride	4	4	3	4	4	4	4	3	4
Aniline	4	4	3	4	4	4	4	3	4
Aniline Hydrochloride	4	4	3	4	4	4	4	3	4
Antimony Salts	1	1	1	1	1	1	1	1	1
Aqua Regia	4	4	4	4	1	4	4	4	4
Aromatic Hydrocarbons	4	4	4	4	4	4	4	4	4
Arsenic Acid, 20% in w	1	1	3	1	1	3	3	3	1
Arsenic Salts	1	1	1	1	1	1	1	1	1
ASTM Reference No.1 Oil	4	4	3	1	4	1	1	3	1
ASTM Reference No.2 Oil	4	4	4	1	4	2	2	4	1

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ASTM Reference No.3 Oil	4	4	4	1	4	4	4	4	1
Barium Carbonate, 1% in w	1	1	1	1	1	1	1	1	1
Barium Hydroxide, 5% in w	1	1	1	1	1	1	1	1	1
Beer	1	1	1	1	1	1	1	1	1
Benzaldehyde	4	4	4	4	3	3	3	4	4
Benzene	4	4	4	4	4	4	4	4	4
Benzenesulfonic Acid	4	4	4	4	4	4	4	4	4
Benzoic Acid	4	4	2	3	4	4	4	2	4
Benzyl Alcohol	4	4	1	4	1	1	1	1	1
Bleach Liquor, 22% in w	1	1	1	1	1	4	4	1	1
Borax, 6% in w	1	1	1	1	1	1	1	1	1
Boric Acid, 4% in w	1	1	1	1	1	1	1	1	1
Bromine, Anhydrous Liquid	4	4	4	4	4	4	4	4	4
Butadiene	1	1	1	1	2	1	1	1	1
Butane	1	1	1	1	2	1	1	1	1
Butyl Acetate	4	4	2	4	4	4	4	2	4
Butyl Alcohol	4	4	4	1	1	4	4	4	1
Butyric Acid	4	4	2	3	4	4	4	2	4
Calcium Carbonate, 25% in dilute aci	1	1	1	1	1	1	1	1	1
Calcium Chloride, 30% in w	1	1	1	1	1	1	1	1	1
Calcium Hydroxide, 10% in glycerol	1	1	1	4	1	1	1	1	1
Calcium Hypochlorite, 20% in w	1	1	1	1	1	4	4	1	1
Calcium Nitrate, 55% in w	1	1	1	1	1	1	1	1	1
Calcium Salts	1	1	1	1	1	1	1	1	1
Calcium Sulfate, 0.2% in w	1	1	1	1	1	1	1	1	1
Carbon Dioxide, Wet/Dry	1	1	1	1	1	1	1	1	1
Carbon Disulfide	4	4	4	4	4	4	4	4	2
Carbon Monoxide	1	1	1	1	1	1	1	1	1
Carbon Tetrachloride	4	4	4	4	4	4	4	4	4
Carbonic Acid	1	1	1	1	1	1	1	1	1
Castor Oil	4	4	3	1	2	1	1	3	1
Cellosolve	4	4	3	3	4	4	4	3	4
Cellosolve Acetate	4	4	3	3	4	4	4	3	4
Chlorine, Dry Gas	1	1	3	1	3	4	4	3	1
Chlorine, Wet Gas	2	2	4	1	3	4	4	4	1
Chloroacetic Acid, 20% in w	1	1	2	4	1	1	1	2	4
Chlorobenzene, Mono, Di, Tri	4	4	4	4	4	4	4	4	4
Chloroform	4	4	3	4	4	4	4	3	4
Chlorosulfonic Acid	4	4	4	4	4	4	4	4	4
Chromic Acid, 10-20% in w	2	2	1	3	1	4	4	1	1
Chromic Acid, 50% in w	3	3	3	4	2	4	4	3	1
Citric Acid, 10-20% in w	1	1	1	1	1	1	1	1	4
Coconut Oil	4	4	3	1	2	1	1	3	1
Corn Syrup	1	1	1	1	1	1	1	1	1
Cottonseed Oil	4	4	3	1	2	1	1	3	1
Cresol (m, o, or p)	4	4	4	3	1	2	2	4	1
Cresylic Acid	4	4	2	3	4	4	4	2	4

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Cupric Chloride, 40% in w	1	1	1	1	1	1	1	1	1
Cupric Nitrate, 70% in w	1	1	1	1	1	1	1	1	1
Cupric Sulfate, 13% in w	1	1	1	1	1	1	1	1	1
Cyanhydrique Acide	1	1	1	1	1	1	1	1	4
Cyclohexane	4	4	4	3	4	4	4	4	1
Cyclohexanone	4	4	4	4	3	4	4	4	4
Detergent Solutions	1	1	2	1	1	1	1	2	1
Dibutyl Phthalate	3	3	1	3	1	1	1	1	1
Diesel Fuel	4	4	4	2	4	4	4	4	1
Diethylamine	1	1	1	3	1	4	4	1	4
Diethylene Glycol	1	1	1	1	1	1	1	1	1
Dimethylformamide	4	4	2	4	1	1	1	2	4
Dimethylsulfoxide	4	4	4	4	2	3	3	4	4
Diocetyl Phthalate	3	3	1	3	1	1	1	1	1
Dioxane	4	4	4	4	4	4	4	4	4
Ether	4	4	3	3	4	4	4	3	4
Ethyl Acetate	4	4	2	4	4	4	4	2	4
Ethyl Alcohol	4	4	1	2	1	2	2	1	4
Ethyl Benzoate	4	4	4	4	4	4	4	4	4
Ethyl Chloride	4	4	3	4	4	4	4	3	4
Ethyl Ether	4	4	3	3	4	4	4	3	4
Ethylene Bromide	4	4	4	4	3	1	1	4	1
Ethylene Chlorohydrin	4	4	1	2	1	2	2	1	4
Ethylene Dichloride	4	4	3	4	4	4	4	3	4
Ethylene Glycol	1	1	1	1	1	1	1	1	1
Ethylene Oxide	1	1	1	1	1	1	1	1	1
Fatty Acids	4	4	3	2	3	2	2	3	1
Ferric Chloride, 43% in w	1	1	1	1	1	1	1	1	1
Ferric Nitrate, 60% in w	1	1	1	1	1	1	1	1	1
Ferric Sulfate, 5% in w	1	1	1	1	1	1	1	1	1
Ferrous Chloride, 40% in w	1	1	1	1	1	1	1	1	1
Ferrous Sulfate, 5% in w	1	1	1	1	1	1	1	1	1
Fluoboric Acid, 48% in w	1	1	4	4	1	4	4	4	1
Fluorine Gas	4	4	4	4	4	4	4	4	2
Fluosilicic Acid, 25% in w	1	1	3	1	1	3	3	3	1
Formaldehyde, 37% in w	4	4	4	4	3	3	3	4	4
Formic Acid, 25% in w	1	1	1	3	1	1	1	1	1
Formic Acid, 40-50% in w	2	2	2	4	1	1	1	2	3
Formic Acid, 98% in w	2	2	2	4	1	1	1	2	4
Frjon 22	1	1	1	1	1	1	1	1	2
Freon 11	1	1	1	1	1	1	1	1	2
Freon 12	1	1	1	1	1	1	1	1	2
Fruit Juice	1	1	1	1	1	1	1	1	1
Fuel Oil	4	4	4	2	4	4	4	4	1
Furfural	4	4	4	4	4	4	4	4	4
Gallic Acid, 17% in acetone	4	4	2	3	4	4	4	2	4
Gasoline, Automotive	4	4	4	2	4	4	4	4	1

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Gelatin	1	1	1	1	1	1	1	1	1
Glucose, 50% in w	1	1	1	1	1	1	1	1	1
Glycerin	1	1	1	1	1	1	1	1	1
Glycolic Acid, 70% in w	1	1	2	1	1	1	1	2	4
Heptane	4	4	4	2	4	4	4	4	2
Hexane	4	4	4	2	4	4	4	4	2
Hydrazine	4	4	3	4	4	4	4	3	4
Hydrobromic Acid, 100% in w	1	1	4	4	1	4	4	4	1
Hydrobromic Acid, 20-50% in w	1	1	4	1	1	4	4	4	1
Hydrochloric Acid, 10% in w	1	1	1	1	1	1	1	1	1
Hydrochloric Acid, 37% in w	1	1	2	4	1	4	4	2	2
Hydrofluoric Acid, 10% in w	1	1	4	1	1	4	4	4	1
Hydrofluoric Acid, 25% in w	1	1	4	4	1	4	4	4	1
Hydrofluoric Acid, 40-48% in w	3	2	4	4	1	4	4	4	1
Hydrogen Gas	1	1	1	1	1	1	1	1	1
Hydrogen Peroxide, 10% in w	1	1	1	1	1	1	1	1	1
Hydrogen Peroxide, 3% in w	1	1	1	1	1	1	1	1	1
Hydrogen Peroxide, 30% in w	1	1	1	4	1	1	1	1	1
Hydrogen Peroxide, 90% in w	4	4	2	4	2	3	3	2	1
Hydrogen Sulfide	1	1	1	1	1	1	1	1	1
Hydroquinone, 7% in w	1	1	2	1	1	2	2	2	1
Hypochlorous Acid, 25% in w	1	1	1	1	1	1	1	1	1
Hypochlorure de sodium, 5.5% dans	1	1	1	1	1	4	4	1	1
Iodine, 50 ppm in w	1	1	1	1	1	1	1	1	1
Isobutyl Alcohol	4	4	3	1	1	4	4	3	1
Isooctane	4	4	4	2	4	4	4	4	1
Isopropyl Acetate	4	4	2	4	4	4	4	2	4
Isopropyl Alcohol	4	4	3	1	1	4	4	3	1
Isopropyl Ether	4	4	3	3	4	4	4	3	4
Jet Fuel, JP8	4	4	4	2	4	4	4	4	1
Kerosene	4	4	4	2	4	4	4	4	1
Ketones	4	4	4	4	3	4	4	4	4
Lacquer Solvents	4	4	2	4	4	4	4	2	4
Lactic Acid, 3-10% in w	1	1	1	1	1	1	1	1	4
Lactic Acid, 85% in w	4	4	2	4	1	4	4	2	4
Lard, Animal Fat	4	4	3	1	2	1	1	3	1
Lead Acetate, 35% in w	1	1	1	1	1	1	1	1	1
Lead Salts	1	1	1	1	1	1	1	1	1
Lemon Oil	4	4	4	3	4	4	4	4	1
Limonene-D	4	4	4	3	4	4	4	4	1
Linoleic Acid	4	4	3	2	3	2	2	3	1
Linseed Oil	4	4	3	1	2	1	1	3	1
Lubricating Oils, Petroleum	4	4	4	1	4	2	2	4	1
Magnesium Carbonate, 1% in w	1	1	1	1	1	1	1	1	1
Magnesium Chloride, 35% in w	1	1	1	1	1	1	1	1	1
Magnesium Hydroxide, 10% in dil. aci	1	1	1	1	1	1	1	1	1
Magnesium Nitrate, 50% in w	1	1	1	1	1	1	1	1	1

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Magnesium Sulfate, 25% in w	1	1	1	1	1	1	1	1	1
Maleic Acid, 30% in w	4	4	3	2	3	2	2	3	1
Malic Acid, 36% in w	1	1	1	1	1	1	1	1	4
Manganese Salts	1	1	1	1	1	1	1	1	1
Mercuric Chloride, 6% in w	1	1	1	1	1	1	1	1	1
Mercuric Cyanide, 8% in w	1	1	1	1	1	1	1	1	1
Mercury	1	1	1	1	1	1	1	1	1
Mercury Salts	1	1	1	1	1	1	1	1	1
Methane Gas	1	1	1	1	1	1	1	1	1
Methanol	4	4	1	2	1	2	2	1	4
Methyl Acetate	4	4	2	4	4	4	4	2	4
Methyl Bromide	4	4	3	4	4	4	4	3	4
Methyl Chloride	4	4	3	4	4	4	4	3	4
Methyl Ethyl Ketone	4	4	4	4	3	4	4	4	4
Methyl Isobutyl Ketone	4	4	4	4	4	4	4	4	4
Methyl Methacrylate	4	4	4	4	4	4	4	4	3
Methylene Chloride	4	4	3	4	4	4	4	3	4
Milk	1	1	1	1	1	1	1	1	1
Mineral Oil	3	3	4	1	4	4	4	4	1
Mineral Spirits	4	4	4	2	4	4	4	4	1
Molasses	1	1	1	1	1	1	1	1	1
Monoethanolamine	4	4	3	4	4	4	4	3	4
Motor Oil	4	4	4	1	4	4	4	4	1
Naphtha	4	4	4	2	4	4	4	4	1
Naphthalene	4	4	4	2	4	4	4	4	1
Natural Gas	1	1	1	1	1	1	1	1	1
Nickel Chloride, 40% in w	1	1	1	1	1	1	1	1	1
Nickel Nitrate, 75% in w	1	1	1	1	1	1	1	1	1
Nickel Salts	1	1	1	1	1	1	1	1	1
Nickel Sulfate, 25% in w	1	1	1	1	1	1	1	1	1
Nitric Acid, 10% in w	1	1	1	4	1	3	3	1	1
Nitric Acid, 35% in w	1	1	1	4	1	4	4	1	3
Nitric Acid, 68-71% in w	4	4	4	4	1	4	4	4	4
Nitrobenzene	4	4	4	4	4	4	4	4	4
Nitromethane	4	4	4	4	4	4	4	4	4
Nitrous Acid, 10% in w	1	1	1	3	1	2	2	1	1
Nitrous Oxide	1	1	1	1	1	1	1	1	1
Oils, Animal	4	4	3	1	2	1	1	3	1
Oils, Essential	4	4	4	3	4	4	4	4	1
Oils, Hydraulic (Phosphate Ester)	4	4	4	1	4	4	4	4	1
Oils, Hydrocarbon	4	4	4	1	4	2	2	4	1
Oils, Vegetable	4	4	3	1	2	1	1	3	1
Oleic Acid	4	4	3	2	3	2	2	3	1
Oleum, 25% in w	1	1	1	2	1	2	2	1	1
Ortho Dichlorobenzene	4	4	4	4	4	4	4	4	4
Oxalic Acid, 12% in w	2	2	2	4	1	1	1	2	4
Oxygen	1	1	1	1	1	1	1	1	1

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Ozone, 300pphm	1	1	1	1	1	1	1	1	1
Palmitic Acid, 100% in ether	4	4	3	2	3	2	2	3	1
Paraffins	4	4	4	2	4	4	4	4	2
Perchloric Acid, 67% in w	3	3	1	4	1	4	4	1	1
Perchloroethylene	4	4	3	4	4	4	4	3	4
Phenol, 5-10% in w	2	2	1	1	1	1	1	1	1
Phenol, 91% in w	4	4	1	3	1	2	2	1	1
Phosphoric Acid, <10% in w	1	1	1	1	1	3	3	1	1
Phosphoric Acid, 25% in w	1	1	1	1	1	4	4	1	1
Phosphoric Acid, 85% in w	1	1	1	4	1	4	4	1	1
Phosphorous Trichloride Acid	1	1	2	4	1	4	4	2	2
Photographic Solutions	1	1	2	1	1	2	2	2	1
Phthalic Acid, 9% in alc	4	4	1	3	1	2	2	1	1
Phthalic Anhydride, 9% in alc	4	4	1	4	1	1	1	1	4
Picric Acid, 1% in w	1	1	4	1	1	4	4	4	1
Plating Solutions	1	1	1	4	1	4	4	1	1
Potassium Carbonate, 55% in w	1	1	1	1	1	1	1	1	1
Potassium Cyanide, 33% in w	1	1	1	1	1	1	1	1	1
Potassium Dichromate, 5% in w	1	1	1	1	1	1	1	1	1
Potassium Hydroxide, <10% in w	1	1	1	4	1	1	1	1	1
Potassium Iodide, 56% in w	1	1	1	1	1	1	1	1	1
Potassium Permanganate, 6% in w	1	1	1	1	1	1	1	1	1
Potassium Salts	1	1	1	1	1	1	1	1	1
Propane Gas	1	1	1	1	1	1	1	1	1
Propylene Glycol	1	1	1	1	1	1	1	1	1
Propylene Oxide	1	1	1	1	1	1	1	1	1
Pyridine	4	4	3	4	3	4	4	3	4
Salicylic Acid, 1% in w	1	1	1	1	1	1	1	1	4
Silicone Oils	2	2	3	1	1	4	4	3	1
Silver Nitrate, 55% in w	1	1	1	1	1	1	1	1	1
Skydrol 500A	4	4	4	1	4	4	4	4	1
Soap Solutions	1	1	2	1	1	1	1	2	1
Sodium Acetate, 55% in w	1	1	1	1	1	1	1	1	1
Sodium Benzoate, 22% in w	1	1	1	1	1	1	1	1	1
Sodium Bicarbonate, 7% in w	1	1	1	1	1	1	1	1	1
Sodium Carbonate, 7% in w	1	1	1	1	1	1	1	1	1
Sodium Chlorate, 45% in w	1	1	1	1	1	1	1	1	1
Sodium Chloride, 20% in w	1	1	1	1	1	1	1	1	1
Sodium Cyanide, 30% in w	1	1	1	4	1	1	1	1	1
Sodium Fluoride, 3% in w	1	1	1	1	1	1	1	1	1
Sodium Hydroxide, 10-15% in w	1	1	1	4	1	1	1	1	1
Sodium Hydroxide, 30-40% in w	3	3	1	4	1	1	1	1	1
Sodium Nitrate, 3.5% in w	1	1	1	1	1	1	1	1	1
Sodium Salts	1	1	1	1	1	1	1	1	1
Sodium Sulfates, 3.6% in w	1	1	1	1	1	1	1	1	1
Sodium Sulfide, 13% in w	1	1	1	1	1	1	1	1	1
Stannic Chloride, 50% in w	1	1	1	1	1	1	1	1	1

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Stannous Chloride, 45% in w	1	1	1	1	1	1	1	1	1
Stearic Acid, 5% in alc	4	4	3	2	3	2	2	3	1
Styrene Monomer	4	4	4	4	4	4	4	4	3
Sulfur Chloride	4	4	4	4	1	4	4	4	1
Sulfur Dioxide, Dry Gas	1	1	1	2	1	1	1	1	1
Sulfur Dioxide, Wet Gas	1	1	1	2	1	1	1	1	1
Sulfur Trioxide, Wet	2	2	2	4	2	2	2	2	2
Sulfuric Acid, 10% in w	1	1	1	1	1	1	1	1	1
Sulfuric Acid, 30% in w	1	1	1	2	1	2	2	1	1
Sulfuric Acid, 95-98% in w	4	4	4	4	1	4	4	4	1
Sulfurous Acid	1	1	1	1	1	1	1	1	1
Tannic Acid, 75% in w	2	2	2	4	1	1	1	2	4
Tartaric Acid, 56% in w	1	1	1	1	1	1	1	1	1
Tetrahydrofuran	4	4	4	4	4	4	4	4	4
Thionyl Chloride	1	1	1	2	1	1	1	1	1
Tin Salts	1	1	1	1	1	1	1	1	1
Titanium Salts	1	1	1	1	1	1	1	1	1
Toluene	4	4	4	4	4	4	4	4	3
Trichloroacetic Acid, 90% in w	1	1	2	4	1	1	1	2	4
Trichloroethane	4	4	3	4	4	4	4	3	4
Trichloroethylene	4	4	3	4	4	4	4	3	4
Trichloropropane	4	4	3	4	4	4	4	3	4
Tricresyl Phosphate	3	3	1	3	1	1	1	1	1
Triethanolamine	4	4	3	4	4	4	4	3	4
Trisodium Phosphate	1	1	1	1	1	1	1	1	1
Turpentine	4	4	4	2	4	4	4	4	1
Urea, 20% in w	1	1	1	1	1	1	1	1	1
Uric Acid	1	1	1	3	1	1	1	1	3
Vinegar	1	1	1	1	1	1	1	1	4
Vinyl Acetate	4	4	2	4	4	4	4	2	4
Water, Deionized	1	1	1	1	1	1	1	1	1
Water, Distilled	1	1	1	1	1	1	1	1	1
Xylene	4	4	4	4	4	4	4	4	3
Zinc Chloride, 80% in w	1	1	1	1	1	1	1	1	1
Zinc Salts	1	1	1	1	1	1	1	1	1