

Chemical Compatibility Results

H-Cube Peek Solvent Resistance

Chemical rating key:

A= Little to no Interaction
B= Slight Interaction
C= Not Recommended

Please do not use acetic acid with Raney Ni.

Please note that cyclohexane, toluene and methylene chloride are not recommended solvents as they can interact with the sealing of the HPLC pump.

Please note that AcCN should not be used as solvent since it may get hydrogenated instead or parallel with your starting material.

Chemical	Rating PEEK	Rating Stainless Steel	Rating Teflon	Notes
Abletic Acid			A	
Acetaldehyde	A			
Acetic Acid	A			
Acetic Acid			A	
Acetic Acid, 100 percent		A		Elevated Temperatures May Reduce Resistance
Acetic Acid, 20 percent		A		
Acetic Acid, 60 percent		A		
Acetic Acid, 95 percent		A		
Acetic Acid, Glacial	A			
Acetic Acid, Glacial			A	
Acetic Anhydride		B	A	
Acetone	A	A	A	
Acetophenone			A	
Acetonitrile	A			
Acetylene	A	A		
Acrylic Acid	A			

ThalesNano Inc.
H-1031 Budapest, Hungary,
Záhony utca 7.

Phone: +36 1 880 8543
Fax: +36 1 880 8501
info@thalesnano.com
www.thalesnano.com

Acrylic Anhydride			A	
Adhesives (not cyanoacrylates)	A			Room Temperature Only
Aliphatic Esters	A			
Alum, Saturated	A			
Aluminum Acetate, 100 percent		B		
Aluminum Chloride	A	C	A	
Aluminum Hydroxide, 10 percent		B		
Aluminum Sulfate	A			
Aluminum Sulfate, 100 percent		B		
Aluminum Sulfate, 50 percent		A		
Aluminum, Molten		C		
Allyl Acetate			A	
Allyl Methacrylate			A	
Ammonia, 100 percent		A		Elevated Temperatures May Reduce Resistance
Ammonia, 40 percent		A		Elevated Temperatures May Reduce Resistance
Ammonia, 880	A			Room Temperature Only
Ammonia, Anhydrous	A			
Ammonia, Aqueous	A			
Ammonia, Liquid			A	
Ammonium Bicarbonate, 100 percent		C		
Ammonium Bicarbonate, 90 percent		B		
Ammonium Carbonate, All Concentrations		B		Elevated Temperatures May Reduce Resistance
Ammonium Chloride			A	
Ammonium Chloride, 10 percent	A	B		Elevated Temperatures May Reduce Resistance (SS)
Ammonium Chloride, 25 percent		B		Elevated Temperatures May Reduce Resistance
Ammonium Chloride, 50 percent		C		
Ammonium Hydroxide			A	
Ammonium Hydroxide, 10 percent Conc.	A			Room Temperature Only
Ammonium Hydroxide, Conc.	A			Room Temperature Only
Ammonium Nitrate	A	A		

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Ammonium Oxalate, 10 percent		B		
Ammonium Oxalate, 5 percent		A		
Ammonium Persulfate, 5 percent		A		
Ammonium Sulfate, 10 percent		A		
Ammonium Sulfite, 10 percent		B		
Amyl Acetate	A	A		
Amyl Chloride		A		
Aniline	A		A	Elevated Temperatures Reduce Resistance (PEEK)
Aniline, 10 percent		B		
Aniline, 3 percent		A		
Antimony Trichloride	A			
Aqua Regia	C		A	
Aromatic Solvents	A			
Aviation Hydraulic Fluid	A			Room Temperature Only
Barium Carbonate		B		
Barium Chloride, 10 percent		B		
Barium Chloride, 5 percent		A		
Barium Nitrate		B		
Barium Salts (Chloride, Sulfide)	A			Room Temperature Only
Barium Sulfate		B		
Barium Sulfide, 100 percent		B		
Beer		A		
Benzaldehyde	A			Room Temperature Only
Benzaldehyde			A	
Benzene	A	B	A	
Benzene Sulfonic Acid	C			
Benzoic Acid	A			
Benzoic Acid, 60 percent		B		
Benzol		A		
Benzonitrile			A	
Benzoyl Chloride			A	
Benzyl Alcohol	A		A	Room Temperature Only
Bleach	A			
Borax			A	
Boric Acid	A		A	
Boric Acid, 10 percent		A		

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Boric Acid, 100 percent		B		
Brake Fluid (Mineral)	A			
Brake Fluid (Polyglycol)	A			
Brine	A			
Bromine	C		A	
Bromine (Dry)	C			
Bromine (Wet)	C			
Bromine Water		C		
Bromine Water, Saturated	A			
Bromine, Anhydrous			A	Room Temperature Only
Butane	A			Room Temperature Only
Butanol	A			Room Temperature Only
Buttermilk		A		
Butyl Acetate	A	A	A	Room Temperature Only (PEEK)
Butyl Amine (n-)			A	
Butyl Methacrylate			A	
Butyric Acid, 100 percent		B		
Butyric Acid, 5 percent		A		
Calcium Bisulfide	A			
Calcium Carbonate	A			Room Temperature Only
Calcium Carbonate, 100 percent		B		
Calcium Chlorate, 10 percent		B		
Calcium Chloride	A		A	
Calcium Chloride, 10 percent		C		
Calcium Hydroxide	A			Room Temperature Only
Calcium Hydroxide, 50 percent		B		
Calcium Hypochlorite	A			
Calcium Hypochlorite, 2 percent		A		Subject To Pitting
Calcium Nitrate	A			Room Temperature Only
Calcium Sulfate	A	B		
Calcium Sulfate				
Carbolic Acid	A			Room Temperature Only
Carbolic Acid, 10 percent		A		Subject To Pitting
Carbolic Acid, 100 percent		B		Subject To Pitting
Carbon Bisulfide		B		
Carbon Dioxide (Dry)	A			Room Temperature Only
Carbon Disulfide			A	

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Carbon Monoxide		A		
Carbon Monoxide (Gas)	A			
Carbon Tetrachloride	A	B	A	Elevated Temperatures Reduce Resistance (Teflon)
Carbonated Water		A		
Carbonic Acid	A	B		
Cetane			A	
Chlorabenzol Concentrate		A		
Chloracetic Acid	A			
Chloric Acid		C		
Chlorinated Water, Saturated		B		Subject To Pitting
Chlorine	C		A	
Chlorine Gas		B		
Chlorine, Anhydrous			A	
Chlorobenzene	A			
Chloroform	A	A	A	
Chlorosulfonic Acid	C		A	
Chromic Acid			A	
Chromic Acid, 10 percent		B		
Chromic Acid, 40 percent Conc.	A			Be Cautious When Using With Tubing & Frits; Room Temperature Only
Chromic Acid, 5 percent		A		
Chromic Acid, 50 percent		B		Elevated Temperatures May Reduce Resistance
Chromic Acid, 70 percent		B		Elevated Temperatures May Reduce Resistance
Chromic Acid, Conc.	C			
Cider		A		
Citric Acid	A			
Citric Acid, 10 percent		B		
Citric Acid, 100 percent		B		
Citric Acid, 5 percent Still		A		
Coffee		A		
Copper Acetate	A			
Copper Acetate, 10 percent		A		Elevated Temperatures May Reduce Resistance
Copper Carbonate	A			
Copper Carbonate, 10 percent		B		
Copper Chloride	A			
Copper Chloride, 1 percent		A		Subject To Pitting

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Copper Chloride, 5 percent Aerated		C		Subject To Pitting
Copper Cyanide	A			
Copper Cyanide, 10 percent		A		
Copper Cyanide, 100 percent		B		
Copper Fluoride	A			
Copper Nitrate	A			
Copper Nitrate		A		
Copper Sulfate	A			
Copper Sulfate, 10 percent		A		
Copper Sulfate, 100 percent		B		
Creosote		A		
Creosote Oil		B		
Cresol (o-)			A	
Crude Oil	A			Room Temperature Only
Cupric Fluoride	A			
Cupric Sulfate	A			
Cuprous Chloride	A			
Cyanogen Gas		B		
Cyclohexane	A			
Cyclohexane			A	
Cyclohexanol	A			Room Temperature Only
Cyclohexanone	A		A	Room Temperature Only (PEEK)
Detergents			A	
Developing Solutions		A		
Dibromoethane	A			Room Temperature Only
Dibutyl Phthalate	A		A	Room Temperature Only (PEEK)
Dibutyl Sebacate			A	
Dichlorobenzene	A			Room Temperature Only
Dichloroethane (1,2)	A			Room Temperature Only
Diesel Oil	A			Room Temperature Only
Diethyl Carbonate			A	
Diethylamine	A			Room Temperature Only
Diethylether	A			
Diisobutyl Adipate			A	
Dimethyl Ether			A	
Dimethyl Formamide (DMF)	A		A	Room Temperature Only (PEEK)
Dimethyl Hydrazine, unsym.			A	
Dimethyl Phthalate	A			Room Temperature Only

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Dimethyl Sulfoxide			A	
Dimethylphthalate			A	
Dimethylsulfoxide (DMSO)	B			Be Cautious When Using With Tubing & Frits
Diocetyl Phthalate	A			Room Temperature Only
Dioxane	A		A	Room Temperature Only (PEEK)
Diphenylsulfone (DPS)	B			Be Cautious When Using With Tubing & Frits; Elevated Temperatures Reduce Resistance
Dowtherm A	C			
Dowtherm G	B			
Dowtherm HT	B			
Dowtherm LF	B			
Dyewood Liquor		A		
Epsom Salt		A		
Ethane	A			Room Temperature Only
Ethanol	A			
Ether	A			
Ether, 100 percent		A		
Ethyl Acetate	A	B	A	Room Temperature Only (PEEK)
Ethyl Alcohol			A	
Ethyl Alcohol, 10 percent		A		
Ethyl Alcohol, 100 percent		A		Elevated Temperatures May Reduce Resistance
Ethyl Alcohol, 40 percent		A		Elevated Temperatures May Reduce Resistance
Ethyl Chloride, Dry		A		
Ethyl Ether			A	
Ethyl Glycol		B		
Ethyl Hexoate			A	
Ethylene Bromide			A	
Ethylene Chloride		A		
Ethylene Dichloride	A			Room Temperature Only
Ethylene Glycol	A		A	
Ethylene Glycol, 50 percent Conc.	A			
Ethylene Nitrate	A			
Ethylene Oxide (ETO)	A			Room Temperature Only
Ethylene Sulfate	A			Room Temperature Only
Ethylenediamine			A	
Ferric Chloride	B		A	

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Ferric Chloride, 1 percent		A		Subject To Pitting
Ferric Chloride, 5 percent		C		Subject To Pitting
Ferric Hydroxide		A		
Ferric Nitrate	A			Room Temperature Only
Ferric Nitrate, 10 percent		B		
Ferric Nitrate, 5 percent		A		
Ferric Oxide	A			
Ferric Phosphate			A	
Ferric Sulfate	A			Room Temperature Only
Ferric Sulfate, 10 percent		A		Elevated Temperatures May Reduce Resistance
Ferric Sulfate, 100 percent		B		
Ferrous Chloride	A	C		Room Temperature Only (PEEK)
Ferrous Nitrate	A			Room Temperature Only
Ferrous Sulfate	A	B		
Fluorine	C	A		
Fluoronaphthalene			A	
Fluoronitrobenzene			A	
Formaldehyde	A	A	A	
Formalin	A			Room Temperature Only
Formic Acid	B		A	
Formic Acid, 5 percent		A		
Formic Acid, 75 percent		B		
Freon 11 Trichlorofluoromethane	A			Room Temperature Only
Freon 113			A	Only Tested To 47 Degrees C
Freon 113 Trichlorofluoromethane	A			Room Temperature Only
Freon 114 1,1 Dichloro 1,2,2,2 Tetrafluoroethane	A			Room Temperature Only
Freon 12 Dichlorodifluoromethane	A			Room Temperature Only
Freon 134a	A			Room Temperature Only
Freon 22 Chlorodifluoromethane	A			
Freon 502	A			
Fuel Oil	A			Room Temperature Only
Furane			A	
Furfural		B		
Gallic Acid, 100 percent		B		
Gallic Acid, 5 percent		A		
Gas (Manufactured)	A			Room Temperature Only

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Gas (Natural)	A			Room Temperature Only
Gasoline	A		A	Room Temperature Only (PEEK)
Gasoline		A		
Gelatin		A		
Glycerin, 10 percent		A		
Glycerin, 100 percent		B		
Glycerol	A			Room Temperature Only
Glycols	A			
Heptane	A			Room Temperature Only
Hexachloroethane			A	
Hexane	A		A	Room Temperature Only (PEEK)
Hydraulic Fluid	A			Room Temperature Only
Hydrazine	A			
Hydrazine			A	
Hydrobromic Acid	C			
Hydrochloric Acid		C	A	
Hydrochloric Acid, 10 percent Conc.	A			
Hydrochloric Acid, Conc.	A			Elevated Temperatures Reduce Resistance
Hydrocyanic Acid	A	B		
Hydrofluoric Acid			A	
Hydrofluoric Acid (40 percent)	C			
Hydrofluosilic Acid		C		
Hydrogen Peroxide	A		A	
Hydrogen Peroxide, 100 percent		B		
Hydrogen Peroxide, 30 percent		A		Elevated Temperatures May Reduce Resistance
Hydrogen Sulfide (Gas)	A			
Hydrogen Sulfide, 100 percent		B		
Hydrogen Sulfide, 90 percent		A		
Hydroxides	A			Room Temperature Only
Iodine	B			Room Temperature Only
Iodine, 80 percent		C		
Iodoform		A		
Iso-Octane	A		A	Room Temperature Only (PEEK)
Isopropanol	A			Room Temperature Only

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Kerosene	A			Room Temperature Only
Ketones	A			Room Temperature Only
Lactic Acid	A			
Lactic Acid, 100 percent		B		
Lactic Acid, 5 percent		A		
Lard		A		
Lead			A	
Lead Acetate	A			
Lime	A			
Linseed Oil		A		
Lubricating Oil	A			Room Temperature Only
Magnesium Chloride	A		A	
Magnesium Chloride, 5 percent		A		
Magnesium Chloride, 50 percent		B		
Magnesium Hydroxide	A			Room Temperature Only
Magnesium Sulfate	A			
Magnesium Sulfate, 100 percent		B		
Magnesium Sulfate, 30 percent		A		
Maleic Acid	A			
Malic Acid		B		
Mayonnaise		A		
Mercuric Chloride	A			
Mercuric Chloride, 10 percent		C		
Mercurous Chloride	A			Room Temperature Only
Mercury	A		A	
Mercury, 100 percent		B		
Methacrylic Acid			A	
Methane (Gas)	A			
Methanol	A		A	
Methyl Alcohol, 100 percent		B		
Methyl Methacrylate			A	
Methylene Chloride	A		A	Be Cautious When Using With Tubing & Frits; Room Temperature Only (PEEK); Only Tested To 40 Degrees C (Teflon)
Methylethyl Ketone (MEK)	A		A	Elevated Temperatures Reduce Resistance (PEEK)
Milk		A		

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Mineral Oil			A	
Molasses		A		
Motor Oil	A		A	
Muriatic Acid		C		
Mustard		A		
Naphtha	A		A	
Naphthalene	A		A	
Naphthols			A	
Naptha, 100 percent		B		
Naptha, Crude		A		
Nickel Acetate	A			
Nickel Chloride	A			
Nickel Chloride, 100 percent		B		
Nickel Nitrate	A			
Nickel Salts	A			Room Temperature Only
Nickel Sulfate	A			
Nickel Sulfate, 10 percent		A		Elevated Temperatures May Reduce Resistance
Nitric Acid			A	
Nitric Acid, 10 percent	A	A		Prolonged Exposure May Cause Deterioration (PEEK); Elevated Temperatures May Reduce Resistance (SS)
Nitric Acid, 100 percent		B		Elevated Temperatures May Reduce Resistance
Nitric Acid, 30 percent Conc.	B			Prolonged Exposure May Cause Deterioration
Nitric Acid, 50 percent Conc.	C			
Nitric Acid, 90 percent		A		Elevated Temperatures May Reduce Resistance
Nitric Acid, Conc.	C			
Nitric Acid, Fuming			A	Room Temperature Only
Nitro-2-Methyl Propanol (2-)			A	
Nitrobenzene	A		A	Room Temperature Only (PEEK)
Nitro-Butanol (2-)			A	
Nitrogen	A			Room Temperature Only
Nitrogen Tetroxide			A	
Nitromethane			A	
Nitrous Acid, 10 percent	A			Room Temperature Only
Nitrous Oxide	A			Room Temperature Only
N-Methyl-2-Pyrrolidone (NMP)	A			Room Temperature Only
Octadecyl Alcohol (n-)			A	

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Oils (Di-Ester & Phosphate Ester Based)	A			
Oils (Petroleum)	A			
Oils (Vegetable)	A			
Oils, Crude & Vegetable		A		May Attack When Sulfuric Acid Is Present
Oleic Acid	A	B		Room Temperature Only (PEEK)
Oleum	C			
Oxalic Acid	A			
Oxalic Acid, 10 percent		B		Elevated Temperatures May Reduce Resistance
Oxalic Acid, 100 percent		C		
Oxalic Acid, 5 percent		A		
Oxalic Acid, 50 percent		B		Elevated Temperatures May Reduce Resistance
Oxygen	A			Room Temperature Only
Ozone	A		A	Room Temperature Only (PEEK)
Paraffin		A		
Pentachlorobenzamide			A	
Pentane	A			Room Temperature Only
Perchloric Acid	A			
Perchloroethylene	A		A	Elevated Temperatures Reduce Resistance (Teflon)
Perfluoroxylene			A	
Petroleum Ether	A			
Phenol			A	
Phenol (Conc.)	C			
Phenol (Dilute)	A			Be Cautious When Using With Tubing & Frits; Room Temperature Only
Phenol, 10 percent		A		
Phenol, 100 percent		B		
Phosphoric Acid			A	
Phosphoric Acid, 10 percent		B		
Phosphoric Acid, 10 percent Conc.	A			
Phosphoric Acid, 5 percent		A		
Phosphoric Acid, 50 percent Conc.	A			
Phosphoric Acid, 70 percent		B		
Phosphoric Acid, 80 percent Conc.	A			

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Phosphorous Chlorides	A			
Phosphorous Pentoxide	A			
Phosphorus Pentachloride			A	
Phthalic Acid	A		A	
Picric Acid	A	B		
Pinene			A	
Piperidene			A	
Polyacrylonitrile			A	
Potassium Acetate			A	
Potassium Aluminum Sulfate	A			
Potassium Bicarbonate	A			Room Temperature Only
Potassium Bichromate		B		
Potassium Bromide	A	B		
Potassium Carbonate	A	B		Room Temperature Only (PEEK)
Potassium Chlorate	A	A		
Potassium Chloride	A			
Potassium Chloride, 10 percent		B		
Potassium Chloride, 5 percent		A		
Potassium Dichromate	A			Room Temperature Only
Potassium Ferricyanide	A			Room Temperature Only
Potassium Ferricyanide, 10 percent		B		
Potassium Ferricyanide, 5 percent		A		
Potassium Ferrocyanide	A			Room Temperature Only
Potassium Ferrocyanide, 10 percent		B		
Potassium Ferrocyanide, 5 percent		A		
Potassium Hydroxide			A	
Potassium Hydroxide, 10 percent Conc.	A	B		Room Temperature Only (PEEK)
Potassium Hydroxide, 100 percent		C		
Potassium Hydroxide, 5 percent		A		
Potassium Hydroxide, 70 percent Conc.	A			Room Temperature Only
Potassium Nitrate	A			
Potassium Nitrate, 100 percent		B		Elevated Temperatures May Reduce Resistance

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Potassium Oxalate		B		
Potassium Permanganate	A		A	Room Temperature Only (PEEK)
Potassium Permanganate, 10 percent		B		
Potassium Sulfate	A			
Potassium Sulfate, 10 percent		A		Elevated Temperatures May Reduce Resistance
Potassium Sulfide	A	B		Room Temperature Only (PEEK)
Propane	A			Room Temperature Only
Propanol	A			Room Temperature Only
Pyridine	A		A	
Pyrogallic Acid		B		
Quinine Bisulfate		B		
Quinine Sulfate		B		
Rosin		B		
Sea Water		A		Subject To Pitting
Sewage		A		May Attack When Sulfuric Acid Is Present
Silicic Acid	A			
Silicone Fluids	A			
Silver Chloride		C		
Silver Nitrate	A	B		
Skydrol Hydraulic Fluid	A			Room Temperature Only
Soap		A		
Sodium (Hot)	C			
Sodium Acetate	A	B		Room Temperature Only (PEEK)
Sodium Bicarbonate	A	A		Room Temperature Only (PEEK)
Sodium Bisulfate, 10 percent		A		
Sodium Carbonate	A			
Sodium Carbonate, 10 percent		B		
Sodium Carbonate, 100 percent		B		
Sodium Carbonate, 5 percent		A		
Sodium Chlorate	A			
Sodium Chloride	A			
Sodium Chloride, 10 percent		B		

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Sodium Chloride, 5 percent Still		A		
Sodium Hydroxide			A	
Sodium Hydroxide, 10 percent Conc.	A			
Sodium Hydroxide, 30 percent		A		Elevated Temperatures May Reduce Resistance
Sodium Hydroxide, 50 percent Conc.	A			
Sodium Hydroxide, Conc	A			Room Temperature Only
Sodium Hypochlorite	A		A	
Sodium Hyposulfite, 100 percent		B		
Sodium Nitrate	A			
Sodium Nitrate, 40 percent		A		
Sodium Nitrate, 50 percent		B		
Sodium Nitrite	A			Room Temperature Only
Sodium Peroxide	A		A	
Sodium Salts	A			Room Temperature Only
Sodium Silicate	A			
Sodium Sulfate	A			
Sodium Sulfate, 10 percent		A		
Sodium Sulfate, 20 percent		B		
Sodium Sulfate, 5 percent		A		
Sodium Sulfide	A			
Sodium Sulfide, 50 percent		B		
Sodium Sulfite	A			
Sodium Sulfite, 10 percent		A		Elevated Temperatures May Reduce Resistance
Sodium Thiosulfate		A		
Stannic Chloride	A	C		
Stannous Chloride	A			
Stannous Chloride			A	
Stannous Chloride, 10 percent		A		
Steam	A			
Stearic Acid		B		
Styrene (Liquid)	A			Room Temperature Only
Sugar Juice		A		
Sulfites	A			
Sulfur	A	A	A	
Sulfur Chloride	A	B		
Sulfur Dichloride	A			

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Sulfur Dioxide	A			
Sulfur Dioxide, 100 percent		B		
Sulfur Hexafluoride (Gas)	A			Room Temperature Only
Sulfur Trioxide	A			
Sulfuric Acid			A	
Sulfuric Acid -- Aerated		B		Elevated Temperatures May Reduce Resistance
Sulfuric Acid -- Air Free		B		Elevated Temperatures May Reduce Resistance
Sulfuric Acid, < 40 percent Conc.	B			Prolonged Exposure May Cause Deterioration
Sulfuric Acid, > 40 percent Conc.	C			
Sulfuric Acid, Fuming			A	Room Temperature Only
Sulfurous Acid	A			
Sulfurous Acid, 100 percent		B		
Sulfuryl Chloride			A	Elevated Temperatures Reduce Resistance
Tanic Acid, 100 percent		B		
Tannic Acid, 10 percent Conc.	A			
Tar	A			Room Temperature Only
Tartaric Acid	A			
Tartaric Acid, 50 percent		B		
Tetrabromoethane			A	
Tetrachloroethylene			A	
Tetraethyl Lead	A			Room Temperature Only
Tetrahydrofuran (THF)	A		A	Be Cautious When Using With Tubing & Frits; Room Temperature Only (PEEK)
Tin, Molten		C		
Toluene	A		A	Room Temperature Only (PEEK)
Transformer Oil	A			
Transmission Oil			A	
Tri-Butyl Phosphate			A	
Trichloroacetic Acid			A	
Trichlorethylene		B	A	
Trichloroethane (1,1,1; "Genklene")	A			Room Temperature Only
Trichloroethylene	A			
Tricresyl Phosphate			A	
Trifluoromethyl Sulfonic Acid	C			
Tri-n-Butyl Phosphate			A	

ThalesNano Inc.
H-1031 Budapest, Hungary,
Záhony utca 7.

Phone: +36 1 880 8543
Fax: +36 1 880 8501
info@thalesnano.com
www.thalesnano.com

Urea	A			
Varnish		A		
Vaseline	A			Room Temperature Only
Vegetable Juices		A		
Vinegar		A		
Vinegar Fumes		A		
Vinyl Methacrylate			A	
Water	A		A	
Water, Distilled	A			
Water, Sea/Salt	A			
Xylene	A		A	Room Temperature Only
Zinc Chloride	A		A	
Zinc Chloride, 50 percent		A		Subject To Pitting
Zinc Sulfate	A			
Zinc Sulfate, 30 percent		A		
Zinc, Molten		C		