

Chemical Compatibility Chart

MANTIS, TEMPEST, FORMULATOR Chip, and F.A.S.T.

General Guidelines
for Reagent Compatibility and Chip/Tip Selection



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The chemical compatibility chart is intended to assist FORMULATRIX customers in determining the proper chip type (MANTIS/TEMPEST/FORMLATOR) or tip compatibility (F.A.S.T.) for their reagents. This guide was compiled from sources within and outside of FORMULATRIX and is accurate to the best of our knowledge.

Chip and tip chemical compatibility is dependent on a variety of factors, such as temperature, static/dynamic exposure, duration, concentration, etc. The dynamic nature of the diaphragm pumps means that chemical compatibility requirements must be more stringent than in static systems (o-rings or gaskets). However, the reusable F.A.S.T. tips may survive single exposures to chemicals that would cause degradation with prolonged exposure, so the F.A.S.T. tips also show a "limited resistance" rating in some cases.

FORMULATRIX can provide assistance and recommendations on reagent compatibility, but users are ultimately responsible for choosing the proper chip type for their reagent and making informed choices so as not to unduly expose their device to reagent damage. FORMULATRIX assumes no liability for inaccuracies in this chart and offers no guarantee for the accuracy of the data included here. Damage caused to FORMULATRIX instruments due to irresponsible exposure to incompatible reagents is not covered under warranty or service contract.

This guide will be updated periodically without any notice.

Compatibility Table

Legend:

- + Compatible
- ± Compatible with limited resistance
- Not Compatible

Chemical	Silicone Chips	PFE-PP Chips	PFE-FEP Chips	FORMULATOR	F.A.S.T. Tip
A					
Acetaldehyde	+	±	+	+	±
Acetamide	+	+	+	+	+
Acetate Solvent	-	-	-	-	-
Acetic Acid 20%	+	+	+	+	+
Acetic Acid 50%	±	+	+	±	+
Acetic Acid, Glacial	±	±	+	±	±
Acetic Anhydride	-	-	+	-	-
Acetone	-	-	+	-	-
Acetonitrile	-	-	+	-	-
Acetophenone	-	±	+	-	±
Acetyl Chloride (dry)	-	-	+	-	-
Acetylene	+	-	+	+	-

Chemical	Silicone Chips	PFE-PP Chips	PFE-FEP Chips	FORMULATOR	F.A.S.T. Tip
Acrylonitrile	-	+	+	+	+
Adipic Acid	Info not available	+	+	Info not available	+
Alcohols: Allyl	-	+	+	-	+
Alcohols: Amyl	-	+	+	-	+
Alcohols: Butyl	+	+	+	+	+
Alcohols: Diacetone	-	±	+	-	±
Alcohols: Ethyl	+	+	+	+	+
Alcohols: Hexyl	+	+	+	+	+
Alcohols: Isobutyl	+	+	+	+	+
Alcohols: Isopropyl	+	+	+	+	+
Alcohols: Methyl	+	+	+	+	+
Alcohols: Octyl	±	+	+	±	+
Alcohols: Propyl	+	+	+	+	+
Aluminum Chloride	+	+	+	+	+
Aluminum Fluoride	+	+	+	+	+
Aluminum Hydroxide	+	+	+	+	+
Aluminum Nitrate	+	+	+	+	+
Aluminum Potassium Sulfate	+	+	+	+	+
Aluminum Sulfate	+	+	+	+	+
Alums	+	+	+	+	+
Amines	+	+	+	+	+
Amino Acids	+	+	+	+	+
Ammonia, Anhydrous	-	+	+	-	+
Ammonia Aqueous Sat Sol	+	+	+	+	+
Ammonia Liquid 100%	+	+	+	+	+
Ammonium Acetate Sat Sol	+	+	+	+	+
Ammonium Bicarbonate	+	+	+	+	+
Ammonium Chloride Sat Sol	+	+	+	+	+
Amyl Acetate 100%	-	-	+	-	-
Aniline 100%	-	±	+	-	±
Antimony Trichloride	-	+	+	-	+

Chemical	Silicone Chips	PFE-PP Chips	PFE-FEP Chips	FORMULATOR	F.A.S.T. Tip
Aqua Regia (80% HCl, 20% HNO ₃)	-	-	+	-	-
Aroclor 1248	+	-	+	+	-
Aromatic Hydrocarbons	-	-	+	-	-
Arsenic Acid	+	+	+	+	+
B					
2-Butanol	+	+	+	+	+
Barium Carbonate	+	+	+	+	+
Barium Chloride	+	+	+	+	+
Barium Hydroxide	+	+	+	+	+
Barium Nitrate	+	+	+	+	+
Barium Sulfate	+	+	+	+	+
Barium Sulfide	+	+	+	+	+
Beer	+	+	+	+	+
Beet Sugar Liquids	+	+	+	+	+
Benzaldehyde	-	-	+	-	-
Benzene	-	-	+	-	-
Benzene Sulfonic Acid	-	-	+	-	-
Benzoic Acid	+	-	+	+	-
Benzol	-	-	+	-	-
Benzyl Chloride	-	-	+	-	-
Benzyl Alcohol	-	+	+	-	+
Bleaching Liquors	+	+	+	+	+
Boric Acid	+	+	+	+	+
Butane	-	-	+	-	-
Butyl Amine	+	-	+	+	-
Butyl Ether	-	-	+	-	-
Butyl Acetate	-	-	+	-	-
Butylene	-	-	+	-	-
Butyric Acid	-	+	+	-	+
C					
Calcium Bisulfate	±	+	+	±	+
Calcium Bisulfide	+	+	+	+	+
Calcium Bisulfite	+	+	+	+	+

Chemical	Silicone Chips	PFE-PP Chips	PFE-FEP Chips	FORMULATOR	F.A.S.T. Tip
Calcium Carbonate	+	+	+	+	+
Calcium Chlorate	±	+	+	±	+
Calcium Chloride	+	+	+	+	+
Calcium Hydroxide	+	+	+	+	+
Calcium Hypochlorite	+	+	+	+	+
Calcium Nitrate	+	+	+	+	+
Calcium Oxide	+	+	+	+	+
Calcium Sulfate	+	+	+	+	+
Calgon	+	+	+	+	+
Carbazole	-	±	+	-	±
Carbon Dioxide (dry)	+	+	+	+	+
Carbon Dioxide (wet)	+	+	+	+	+
Carbon Monoxide	+	+	+	+	+
Carbon Tetrachloride	-	-	+	-	-
Carbonic Acid	+	+	+	+	+
Cell Culture Medium	+	+	+	+	+
Chlorine (dry)	-	-	+	-	-
Chlorine Aqueous Sat Sol	-	+	+	-	+
Chlorine Liquid 100%	-	-	+	-	-
Chlorine Water	-	-	+	-	-
Chlorine, Anhydrous Liquid	-	-	+	-	-
Chloroacetic Acid	-	±	+	-	±
Chlorobenzene (Mono)	-	-	+	-	-
Chlorobromomethane	-	-	+	-	-
Chloroform	-	-	+	-	-
Chlorosulfonic Acid	-	-	+	-	-
Chromic Acid	-	-	+	-	-
Citric Acid	+	±	+	+	±
Citric Acid Sat Sol	+	+	+	+	+
Copper Cyanide	+	+	+	+	+
Copper Sulfate	+	+	+	+	+
Cresols	-	-	+	-	-
Cresylic Acid	-	-	+	-	-

Chemical	Silicone Chips	PFE-PP Chips	PFE-FEP Chips	FORMULATOR	F.A.S.T. Tip
Cyclohexane	-	-	+	-	-
Cyclohexanone	-	-	+	-	-
Cyclopentyl Methyl Ether	-	±	+	-	±
D					
1,4-Dioxane	-	±	+	-	±
Decahydronaphthalene (Decalin)	-	±	+	-	±
Detergents	+	+	+	+	+
Dibutyl Phthalate	-	+	+	-	+
Dichlorobenzene	-	-	+	-	-
Dichloroethane	-	-	+	-	-
Dichloromethane	-	-	+	-	-
Diethyl Ether	-	-	+	-	-
Diethyl Malonate	-	+	+	-	+
Diethylamine	+	+	+	+	+
Diethylene Glycol	+	+	+	+	+
Dimethyl Aniline	-	-	-	-	-
Dimethyl Ether	-	+	+	-	+
Dimethyl Formamide	-	+	+	-	+
Dimethyl Sulfoxide (DMSO) ≤ 5%	+	+	+	-	+
Dimethyl Sulfoxide (DMSO) 100%	-	+	+	-	+
Diphenyl	-	-	-	-	-
Diphenyl Oxide	-	-	-	-	-
Dithiothreitol (DTT)	-	+	+	-	+
Dulbecco's Modified Eagle Medium (DMEM)	+	+	+	+	+
E					
EDTA	+	+	+	+	+
EGTA	+	+	+	+	+
Ethane	-	-	+	-	-
Ethanolamine	+	-	+	+	-
Ethyl Acetate	+	±	+	+	±
Ethyl Alcohol (absolute)	+	+	+	+	+
Ethyl Benzoate	-	±	+	-	±

Chemical	Silicone Chips	PFE-PP Chips	PFE-FEP Chips	FORMULATOR	F.A.S.T. Tip
Ethyl Chloride	-	-	+	-	-
Ethyl Ether	-	-	+	-	-
Ethylene Bromide	-	-	+	-	-
Ethylene Chloride	-	-	+	-	-
Ethylene Chlorohydrin	-	-	+	-	-
Ethylene Diamine	+	+	+	+	+
Ethylene Dichloride	-	-	+	-	-
Ethylene Glycol	+	+	+	+	+
Ethylene Oxide	-	±	+	-	±
Ethylene Oxide 100%	-	±	+	-	±
F					
Fatty Acids	-	±	+	-	±
Ferric Chloride	+	±	+	+	±
Ferric Nitrate	+	+	+	+	+
Ferric Sulfate	+	+	+	+	+
Ferrous Chloride	+	+	+	+	+
Ferrous Sulfate	+	+	+	+	+
Fluoboric Acid	+	+	+	+	+
Fluorinated Hydrocarbon	-	±	+	-	±
Fluorine	-	-	+	-	-
Fluorine Gas	-	-	Info not available	-	-
Fluosilicic Acid	-	+	+	-	+
Formaldehyde 100%	+	±	+	+	±
Formamide	-	±	+	-	±
Formic Acid (up to 100%)	±	+	+	±	+
Freon 113	-	-	±	-	-
Freon 12	-	+	-	-	+
Freon 22	-	-	+	-	-
Freon TF	-	-	-	-	-
Fuel Oils	-	±	+	-	±
Furan Resin	-	-	+	-	-
Furfural	-	-	+	-	-
G					
Gallic Acid	-	+	+	-	+
Gasoline	-	±	+	-	±
Gelatin	+	+	+	+	+

Chemical	Silicone Chips	PFE-PP Chips	PFE-FEP Chips	FORMULATOR	F.A.S.T. Tip
Glucose	+	+	+	+	+
Glue, P.V.A.	+	+	+	+	+
Glycerin	+	+	+	+	+
Glycolic Acid	+	+	+	+	+
Guanidine Thiocyanate (GITC)	+	Info not available	+	+	Info not available
Guanidinium Chloride	+	+	+	+	+
H					
HEPES	+	+	+	+	+
Heptane	-	-	+	-	-
Hexane	-	±	+	-	±
Hexafluoroisopropanol (HFIP)	-	-	+	-	-
Honey	+	+	+	+	+
Hydraulic Oil (Petro)	-	-	+	-	-
Hydraulic Oil (Synthetic)	+	-	+	+	-
Hydrazine	+	-	+	+	-
Hydrobromic Acid	-	+	+	-	+
Hydrobromic Acid (up to 100%)	+	±	+	+	±
Hydrochloric Acid (up to 40%)	-	±	+	-	±
Hydrocyanic Acid	-	+	+	-	+
Hydrocyanic Acid (Gas 10%)	-	+	+	-	+
Hydrofluoric Acid (up to 48%)	-	+	+	-	+
Hydrofluosilicic Acid	-	+	+	-	+
Hydrogen Gas	-	+	+	-	+
Hydrogen Peroxide	-	+	+	-	+
Hydrogen Peroxide 30%	-	+	+	-	+
Hydrogen Sulfide (aqua)	-	+	+	-	+
Hydrogen Sulfide (dry)	-	+	+	-	+
Hydroquinone	+	+	+	+	+
I					
Isooctane	-	+	+	-	+
Isopropyl Acetate	-	+	+	-	+

Chemical	Silicone Chips	PFE-PP Chips	PFE-FEP Chips	FORMULATOR	F.A.S.T. Tip
Isopropyl Ether	-	-	+	-	-
Isopropanol	+	+	+	+	+
Isopropyl Ether 100%	-	-	+	-	-
J					
K					
Kerosene	-	-	+	-	-
L					
Lacquer Thinners	-	-	+	-	-
Lacquers	-	-	+	-	-
Lactic Acid (up to 100%)	+	+	+	+	+
Lard	+	+	+	+	+
Latex	+	+	+	+	+
Lead Acetate	+	+	+	+	+
Lead Nitrate	+	+	+	+	+
Lead Sulfamate	+	+	+	+	+
Ligroin	-	-	+	-	-
Linoleic Acid	+	+	+	+	+
Lithium Chloride	+	+	+	+	+
Lubricants	-	+	+	-	+
M					
2-Mercaptoethanol	+	+	+	+	+
2-Methoxyethanol	-	+	+	-	+
Magnesium Chloride	+	+	+	+	+
Magnesium Chloride Sat Sol	+	+	+	+	+
Magnesium Hydroxide	+	+	+	+	+
Magnesium Sulfate	+	+	+	+	+
Maleic Acid	+	+	+	+	+
Malic Acid	+	+	+	+	+
Mercuric Chloride (dilute)	+	+	+	+	+
Mercuric Cyanide	+	+	+	+	+
Mercurous Nitrate	+	+	+	+	+
Mercury	+	+	+	+	+
Mercury Hydroxide	+	+	+	+	+
Methane	-	+	+	-	+
Methanol 100%	+	+	+	+	+
Methoxyethyl Oleate	±	+	+	±	+

Chemical	Silicone Chips	PFE-PP Chips	PFE-FEP Chips	FORMULATOR	F.A.S.T. Tip
Methyl Acetate	-	-	+	-	-
Methyl Acrylate	-	-	+	-	-
Methyl Alcohol	+	+	+	+	+
Methyl Butyl Ketone	-	-	+	-	-
Methyl Carbonate	-	-	+	-	-
Methyl Chloride	-	-	+	-	-
Methyl Ethyl Ketone	-	-	+	-	-
Methyl Isobutyl Ketone	-	-	+	-	-
Methyl Methacrylate	-	-	+	-	-
Methylamine	-	+	+	-	+
Methylene Chloride	-	-	+	-	-
Minimum Essential Medium (MEM)	+	+	+	+	+
Milk	+	+	+	+	+
Monoethanolamine	+	-	+	+	-
Morpholine	-	+	+	-	+
Motor Oil	-	±	+	-	±
N					
n-Butanol	±	+	+	±	+
n-Octane	-	+	+	-	+
Naphtha	-	-	+	-	-
Naphthalene	-	+	+	-	+
Natural Gas	+	+	+	+	+
Nickel Chloride	+	+	+	+	+
Nickel Nitrate	+	+	+	+	+
Nickel Sulfate	+	+	+	+	+
Nitric Acid	-	±	+	-	±
Nitric Acid (Concentrated)	-	-	+	-	-
Nitric Acid 40-50%	-	-	+	-	-
Nitric Acid (up to 30%)	-	-	+	-	-
Nitrobenzene	-	-	+	-	-
Nitromethane	-	±	+	-	±
Nitrous Acid	-	-	+	-	-

Chemical	Silicone Chips	PFE-PP Chips	PFE-FEP Chips	FORMULATOR	F.A.S.T. Tip
O					
Oils: Castor	+	+	+	+	+
Oils: Coconut	+	+	+	+	+
Oils: Cod Liver	+	+	+	+	+
Oils: Corn	+	+	+	+	+
Oils: Cottonseed	+	+	+	+	+
Oils: Creosote	-	-	+	-	-
Oils: Diesel Fuel (20, 30, 40, 50)	-	+	+	-	+
Oils: Fuel (1, 2, 3, 5A, 5B, 6)	-	+	+	-	+
Oils: Hydraulic Oil (Petro)	-	-	+	-	-
Oils: Hydraulic Oil (Synthetic)	+	-	+	+	-
Oils: Linseed	+	+	+	+	+
Oils: Mineral	-	±	+	-	±
Oils: Olive	-	+	+	-	+
Oils: Peanut	+	-	+	+	-
Oils: Pine	-	-	+	-	-
Oils: Rapeseed	-	-	+	-	-
Oils: Silicone	-	+	+	-	+
Oils: Soybean	+	+	+	+	+
Oils: Transformer	+	-	+	+	-
Oils: Turbine	-	+	+	-	+
Oleic Acid	-	+	+	-	+
Oleum	-	-	+	-	-
Oxalic Acid (cold)	+	+	+	+	+
Oxalic Acid Sat Sol	±	+	+	±	+
Ozone	+	-	+	+	-
P					
2-Propanol	+	+	+	+	+
Palmitic Acid	-	+	+	-	+
Pentane	-	-	+	-	-
Perchloric Acid	-	-	+	-	-
Perchloroethylene	-	-	+	-	-
Petrolatum	-	-	+	-	-
Petroleum	-	+	+	-	+

Chemical	Silicone Chips	PFE-PP Chips	PFE-FEP Chips	FORMULATOR	F.A.S.T. Tip
Petroleum Ether	-	±	+	-	±
Phenol 10%	-	+	+	-	+
Phenol 90%	-	-	-	-	-
Phosphoric Acid 5%	±	+	+	±	+
Phosphoric Acid 85%	-	+	+	-	+
Phosphorus Trichloride	-	-	+	-	-
Photographic Solutions	+	+	+	+	+
Phthalic Acid	+	+	+	+	+
Phthalic Anhydride	Info not available	-	+	Info not available	-
Picric Acid	-	-	+	-	-
Plating Solutions, Chromium Plating: Barrel Chrome Bath 95°F	Info not available	+	+	Info not available	+
Plating Solutions, Chromium Plating: Black Chrome Bath 115°F	Info not available	+	+	Info not available	+
Plating Solutions, Chromium Plating: Chromic- Sulfuric Bath 130°F	Info not available	+	+	Info not available	+
Plating Solutions, Chromium Plating: Fluoride Bath 130°F	Info not available	+	+	Info not available	+
Plating Solutions, Chromium Plating: Fluosilicate Bath 95°F	Info not available	-	-	Info not available	-
Potassium Bicarbonate	+	+	+	+	+
Potassium Bromide	+	+	+	+	+
Potassium Carbonate	+	+	+	+	+
Potassium Chlorate	+	+	+	+	+
Potassium Chloride	+	+	+	+	+
Potassium Chromate	+	+	+	+	+
Potassium Cyanide Solutions	+	+	+	+	+
Potassium Dichromate	+	+	+	+	+
Potassium Ferricyanide	+	+	+	+	+
Potassium Hydroxide (KOH), < 1N	+	+	+	+	+

Chemical	Silicone Chips	PFE-PP Chips	PFE-FEP Chips	FORMULATOR	F.A.S.T. Tip
Potassium Hydroxide (KOH), > 1 N	-	±	+	-	±
Potassium Hydroxide (up to 50%)	-	+	+	-	+
Potassium Iodide	+	+	+	+	+
Potassium Nitrate	+	+	+	+	+
Potassium Permanganate 30%	-	-	+	-	-
Potassium Sulfate	+	+	+	+	+
Potassium Sulfide	+	+	+	+	+
Propane (liquefied)	-	+	+	-	+
Propylene	-	+	+	-	+
Propylene Glycol	+	+	+	+	+
Pyridine	-	-	+	-	-
Pyrogalllic Acid	-	±	+	-	±
Q					
R					
Resorcinol	-	±	+	-	±
Rosiglitazone	±	+	+	±	+
Rosins	-	+	+	-	+
RPMI-1640 Medium	+	+	+	+	+
Rum	+	+	+	+	+
S					
Salicylic Acid	+	+	+	+	+
Salt Brine (NaCl saturated)	+	+	+	+	+
Sea Water	+	+	+	+	+
Silicone	-	+	+	-	+
Silicone Oil	+	+	+	+	+
Silver Nitrate	+	+	+	+	+
Soap Solutions	+	+	+	+	+
Sodium Acetate	+	+	+	+	+
Sodium Benzoate	+	+	+	+	+
Sodium Bicarbonate (NaHCO ₃)	+	+	+	+	+
Sodium Bisulfate	+	+	+	+	+
Sodium Bisulfite	+	+	+	+	+
Sodium Borate (Borax)	+	+	+	+	+

Chemical	Silicone Chips	PFE-PP Chips	PFE-FEP Chips	FORMULATOR	F.A.S.T. Tip
Sodium Carbonate (Na ₂ CO ₃) 10%	+	+	+	+	+
Sodium Carbonate 50%	-	+	+	-	+
Sodium Chlorate	+	+	+	+	+
Sodium Chloride	+	+	+	+	+
Sodium Cyanide	+	+	+	+	+
Sodium Dichromate Sat Sol	-	-	+	-	-
Sodium Dodecyl Sulphate (SDS)	+	+	+	+	+
Sodium Ferrocyanide	+	+	+	+	+
Sodium Fluoride	+	+	+	+	+
Sodium Hydrosulfite	-	+	+	-	+
Sodium Hydroxide, < 1 N	+	+	+	+	+
Sodium Hydroxide, > 1 N	-	+	+	-	+
Sodium Hydroxide 1%	+	+	+	+	+
Sodium Hydroxide 10%	-	+	+	-	+
Sodium Hypochlorite	+	-	+	+	-
Sodium Metaphosphate	+	-	+	+	-
Sodium Metasilicate	+	+	+	+	+
Sodium Nitrate	+	+	+	+	+
Sodium Orthovanadate (Na ₃ VO ₄)	±	+	+	±	+
Sodium Perborate	+	+	+	+	+
Sodium Phosphate	+	+	+	+	+
Sodium Polyphosphate	+	+	+	+	+
Sodium Silicate	+	+	+	+	+
Sodium Sulfate	+	+	+	+	+
Sodium Sulfide	+	+	+	+	+
Sodium Sulfite	+	+	+	+	+
Sodium Tetraborate	+	+	+	+	+
Sodium Thiosulfate	+	+	+	+	+
Stannic Chloride	+	+	+	+	+
Stannous Chloride	+	+	+	+	+
Stearic Acid	+	+	+	+	+

Chemical	Silicone Chips	PFE-PP Chips	PFE-FEP Chips	FORMULATOR	F.A.S.T. Tip
Stoddard Solvent	-	±	+	-	±
Styrene	-	-	+	-	-
Sugar (Liquids)	+	+	+	+	+
Sulfate (Liquors)	+	+	+	+	+
Sulfur Chloride	-	-	+	-	-
Sulfur Dioxide	+	+	+	+	+
Sulfur Dioxide (dry)	+	+	+	+	+
Sulfur Hexafluoride	+	Info not available	+	+	Info not available
Sulfur Trioxide	+	-	+	+	-
Sulfur Trioxide (dry)	+	-	+	+	-
Sulfuric Acid	-	+	+	-	+
Sulfuric Acid (cold concentrated)	-	+	+	-	+
Sulfuric Acid (hot concentrated)	-	-	-	-	-
Sulfurous Acid	-	+	+	-	+
T					
Tallow	+	+	+	+	+
Tannic Acid	+	+	+	+	+
Tanning Liquors	+	+	+	+	+
Tartaric Acid	+	+	+	+	+
Tartaric Acid Sat Sol	-	+	+	-	+
Tetrachloroethane	-	-	+	-	-
Tetrachloroethylene	-	-	+	-	-
Tetrahydrofuran (THF)	-	±	+	-	±
Tin Salts	+	+	+	+	+
Tincture of Iodine	-	+	+	-	+
Toluene (Toluol)	-	-	+	-	-
Tributyl Citrate	-	±	+	-	±
Trichloroacetic Acid	-	+	+	-	+
Trichloroethane	-	-	+	-	-
Trichloroethylene	-	-	+	-	-
Tricresyl Phosphate	-	+	+	-	+
Triethylamine	-	±	+	-	±
Triethylene Glycol	+	+	+	+	+
Tris(2-Carboxyethyl) Phosphine (TCEP)	+	+	+	+	+

Chemical	Silicone Chips	PFE-PP Chips	PFE-FEP Chips	FORMULATOR	F.A.S.T. Tip
Triton X-100	+	+	+	+	+
Tripropylene Glycol	+	+	+	+	+
Trisodium Phosphate	-	+	+	-	+
Turpentine	-	-	+	-	-
U					
Urea	+	+	+	+	+
Urea Sat Sol	+	+	+	+	+
V					
Varnish	-	+	+	-	+
Vegetable Juice	+	+	+	+	+
Vinegar	+	+	+	+	+
Vinyl Acetate	-	-	+	-	-
W					
Water, Acid, Mine	+	+	+	+	+
Water, Deionized	+	+	+	+	+
Water, Distilled	+	+	+	+	+
Water, Fresh	+	+	+	+	+
Water, Salt	+	+	+	+	+
Weed Killers	±	±	+	±	±
Whiskey & Wines	+	+	+	+	+
White Liquor (Pulp Mill)	+	+	+	+	+
X					
Xylene	-	-	+	-	-
Y					
Z					
Zinc Chloride	+	+	+	+	+
Zinc Chloride Sat Sol	+	+	+	+	+
Zinc Sulfate	+	+	+	+	+
Zinc Sulfate Sat Sol	±	+	+	±	+

Chemical Compatibility Data Source

(Graco, PerSelect, TYM, EnvcoGlobal, VisserSales, GAPI UK, Cole-Parmer)